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Scientific Staff and Expertise of Agriculture and Agri-Food Canada

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Canada 

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Research Publications:

2014

Mapiye, C., Turner, T.D., Basarab, J.A., Baron, V.S., Aalhus, J.L., and Dugan, M.E.R (2014). "Subcutaneous fatty acid composition of steers finished as weanlings or yearlings with and without growth promotants.", *Journal of Animal Science*. doi : 10.1186/2049-1891-4-41

Ruan, E.D., Juárez, M., Thacker, R., Yang, X.Q., Dugan, M.E.R, and Aalhus, J.L. (2014). "Dietary vitamin E effects on the formation of heterocyclic amines in grilled lean beef.", *Meat Science*, 96(2, Part A), pp. 849-853. doi : 10.1016/j.meatsci.2013.09.016

He, M.L., McAllister, T.A., Hernandez-Calva, L.M., Aalhus, J.L., Dugan, M.E.R, and McKinnon, J.J. (2014). "Effect of dietary inclusion of triticale dried distillers' grain and oilseeds on quality and fatty acid profile of meat from feedlot steers.", *Meat Science*, 97(1), pp. 76-82. doi : 10.1016/j.meatsci.2014.01.008

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Prieto, N., Dugan, M.E.R, López-Campos, Ó., Aalhus, J.L., and Uttaro, B. (2013). "At line prediction of PUFA and biohydrogenation intermediates in perirenal and subcutaneous fat from cattle fed sunflower or flaxseed by near infrared spectroscopy.", *Meat Science*, 94(1), pp. 27-33. doi : 10.1016/j.meatsci.2012.12.014

Meadus, W.J., Turner, T.D., Dugan, M.E.R, Aalhus, J.L., Duff, P., Rolland, D.C., Uttaro, B., and Gibson, L. (2013). "Fortification of pork loins with docosahexaenoic acid (DHA) and its effect on flavour.", *Journal of Animal Science and Biotechnology*, 4(46), pp. 1-9. doi : 10.1186/2049-1891-4-46

Mapiye, C., Turner, T.D., Rolland, D., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Adipose tissue and muscle fatty acid profiles of steers fed red clover silage with and without flaxseed.", *Livestock Science*, 151(1), pp. 11-20. doi : 10.1016/j.livsci.2012.10.021

Rodas-González, A.R., Juárez, M., Robertson, W.M., Larsen, I.L., and Aalhus, J.L. (2013). "Characterization of Canadian grade standards and lean yield prediction for cows.", *Canadian Journal of Animal Science*, 93(1), pp. 99-107. doi : 10.4141/cjas2012-091

Juárez, M., Larsen, I.L., Klassen, M.D., and Aalhus, J.L. (2013). "Canadian Beef Tenderness Survey 2001-2011.", *Canadian Journal of Animal Science*, 93(1), pp. 89-97. doi : 10.4141/CJAS2012-112

Mapiye, C., Dugan, M.E.R, Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., and Aalhus, J.L. (2013). "Erythrocytes assayed early ante mortem can predict adipose tissue and muscle *trans*-18:1 isomeric profiles of steers fed red clover silage supplemented with flaxseed.", *Canadian Journal of Animal Science*, 93(1), pp. 149-153. doi : 10.4141/CJAS2012-054

Mapiye, C., Aalhus, J.L., Turner, T.D., Rolland, D.C., Basarab, J.A., McAllister, T.A., Block, H.C., Uttaro, B., López-Campos, Ó., Proctor, S.D., and Dugan, M.E.R (2013). "Effects of feeding flaxseed or sunflower-seed in high-forage diets on beef production, quality and fatty acid composition.", *Meat Science*, 95(1), pp. 98-109. doi : 10.1016/j.meatsci.2013.03.033

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Mapiye, C., Aldai, N., Turner, T.D., Aalhus, J.L., Rolland, D.C., Kramer, J.K.G., and Dugan, M.E.R (2012). "The labile lipid fraction of meat: From perceived disease and waste to health and opportunity. (Review).", *Meat Science*, 92(3), pp. 210-220. doi : 10.1016/j.meatsci.2012.03.016

Juárez, M., Basarab, J.A., Baron, V.S., Valera, M., Larsen, I.L., and Aalhus, J.L. (2012). "Quantifying the relative contribution of *ante* and *post-mortem* factors to the variability in beef texture.", *Animal*, 6(11), pp. 1878-1887. doi : 10.1017/s1751731112000572

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Juárez, M., Dugan, M.E.R, Aldai, N., Basarab, J.A., Baron, V.S., McAllister, T.A., and Aalhus, J.L. (2012). "Beef quality attributes as affected by increasing the intramuscular levels of vitamin E and omega-3 fatty acids.", *Meat Science*, 90(3), pp. 764-769. doi : 10.1016/j.meatsci.2011.11.010

Prieto, N., Dugan, M.E.R, López-Campos, Ó., McAllister, T.A., Aalhus, J.L., and Uttaro, B. (2012). "Near infrared reflectance spectroscopy predicts the content of polyunsaturated fatty acids and biohydrogenation products in the subcutaneous fat of beef cows fed flaxseed.", *Meat Science*, 90(1), pp. 43-51. doi : 10.1016/j.meatsci.2011.05.025

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2011

Juárez, M., Dugan, M.E.R, Aldai, N., Aalhus, J.L., Patience, J.F., Zijlstra, R.T., and Beaulieu, A.D. (2011). "Increasing omega-3 levels through dietary co-extruded flaxseed supplementation negatively affects pork palatability.", *Food Chemistry*, 126(4), pp. 1716-1723. doi : 10.1016/j.foodchem.2010.12.065

He, M.L., Chung, Y.-H., McAllister, T.A., Beauchemin, K.A., Mir, P.S., Aalhus, J.L., and Dugan, M.E.R (2011). "Inclusion of Flaxseed in Hay and Barley Silage Diets Increases Alpha-Linolenic Acid in Cow Plasma Independent of Forage Type.", *Lipids*, 46(7), pp. 577-585. doi : 10.1007/s11745-011-3534-4

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Juárez, M., Caine, W.R., Larsen, I.L., Robertson, W.M., Dugan, M.E.R., and Aalhus, J.L. (2009). "Enhancing pork loin quality attributes through genotype, chilling method and ageing time.", *Meat Science*, 83(3), pp. 447-453. doi : 10.1016/j.meatsci.2009.06.016

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Basarab, J.A., Aalhus, J.L., Shah, H., Mir, P.S., Baron, V.S., Dugan, M.E.R., Okine, E.K., and Robertson, W.M. (2007). "Effect of feeding sunflower seeds on the performance, carcass characteristics, meat quality, retail stability and sensory characteristics of pasture-fed and feedlot finished beef.", *Canadian Journal of Animal Science*, 87(1), pp. 15-27. doi : 10.4141/A06-047

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Other Science Related Publications:

2013

Turner, T.D., Mapiye, C., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Lopez-Campos, O., Aalhus, J.L., and Dugan, F.M. (2013). "Inclusion of perirenal fat to enhance the bioactive fatty acid content of hamburger.", 2013, Banff, Alberta, Canada, June 18-20, 2013.

Roy, B.C., Girard, I., Aalhus, J.L., Basarab, J.A., Larsen, I.L., Sedgewick, G., and Bruce, H.L. (2013). "Modification of pyridinoline concentration in m. Gluteus medius with steer age at slaughter, breed cross and growth promotants.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P35, pp. 39. (Poster)

Schwartzkopf-Genswein, K.S.G., Janzen, E., Pajor, E., Crowe, T.G., Aalhus, J.L., Kastelic, J.P., and Ominski, K.H. (2013). Effect of transport conditions on indicators of animal welfare for fat cattle and market cows in Canada Interim Report to BCRC Project # ANH.10.11 (September 30, 2013). (Report)

Prieto, N., Dugan, M.E.R., Aalhus, J.L., and Uttaro, B. (2013). "Near infrared reflectance spectroscopy: an alternative technology to predict meat quality.", *Prairie Post Bull Breeders*, February, pp. 14-15.

Prieto, N., Uttaro, B., Mapiye, C., Dugan, M.E.R., Zamora, A.M.V., Young, M., Zijlstra, R.T., Aalhus, J.L., and Beltranena, E. (2013). "Near infrared reflectance spectroscopy predicts fatty acid content in backfat from pigs fed reduced-oil corn dried distillers grains with solubles.", 59th International Congress of Meat Science and Technology (ICoMST2013), Izmir, Turkey, August 18-23, 2013.

Meadus, W.J., Turner, T.D., Dugan, M.E.R., Aalhus, J.L., Duff, P., Rolland, D., Uttaro, B., and Gibson, L.L. (2013). "Injection of pork loins with the long chain fatty acid, docosahexaenoic acid (DHA) and its effect on flavour.", 59th International Congress of Meat Science and Technology (ICoMST2013), Izmir, Turkey, August 18-23, 2013.

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Effects of feeding flaxseed or sunflower-seed in high forage diets on biohydrogenation intermediates in adipose tissues of yearling steers.", ADSA-ASAS Joint Annual Meeting, Indianapolis, USA, July 2013. (Abstract)

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Effects of feeding flaxseed and sunflower seed diets in high forage diets on biohydrogenation intermediates in adipose tissues of yearling steers.", ADSA-ASAS Joint Annual Meeting, Indianapolis, USA, July 2013. (Abstract)

Mapiye, C., Turner, T.D., Basarab, J.A., Baron, V.S., Aalhus, J.L., and Dugan, M.E.R (2013). "Subcutaneous fatty acid composition of calf and yearling-fed steers with and without growth promotants.", World Conference on Animal Product, Beijing, China, October 2013. (Abstract)

Chen, L., Vinsky, M.D., Ekine, C., Basarab, J.A., Aalhus, J.L., Dugan, M.E.R, Curtis, J.M., Fitzsimmons, C.J., Buchanan, F.C., Stothard, P., Liao, X.J., Wang, Z., Okine, E.K., and Li, C. (2013). "Genome-wide identification of single nucleotide polymorphisms associated with fatty acids in beef cattle.", Livestock Genetec Conference, Edmonton, Canada, October, 2013. (Abstract)

Ekine, C., Chen, L., Vinsky, M.D., Basarab, J.A., Aalhus, J.L., Dugan, M.E.R, Curtis, J., Fitzsimmons, C.J., Wang, Z., Okine, E.K., and Li, C. (2013). "Heritability of fatty acids in longissimus dorsi muscle and subcutaneous adipose tissue of beef cattle.", Livestock Genetec Conference, Edmonton, Canada, October, 2013. (Abstract)

Aalhus, J.L., Lopez-Campos, O., Prieto, N., Rodas-Gonzalez, A., Dugan, M.E.R, Uttaro, B., and Juarez, M. (2013). "Meat quality and improving carcass value.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013. (Abstract)

Meadus, W.J., Turner, T.D., Dugan, M.E.R, Aalhus, J.L., Duff, P., Rolland, D., Uttaro, B., and Gibson, L.L. (2013). "Injection of Pork Loins with The Long Chain Fatty Acid Docosahexaenoic Acid (dha) and Its Effect on Flavour", 59th International Congress of Meat Science and Technology (ICoMST2013), Izmir, Turkey, August 18-23, 2013, Poster ID: S10B-9. (Poster)

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Research Publications:

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Research Publications:

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Acharya, Surya N., B.Sc. (Agr.), M.Sc. (Agr. Botany) Ph.D., FICN

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Research Publications:

2013

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Research Publications:

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Research Publications:

2014

Klima, C.L., Alexander, T.W., Hendrick, S., and McAllister, T.A. (2014). "Characterization of *Mannheimia haemolytica* isolates collected from the nasopharynx of morbid and healthy feedlot cattle in western Canada.", *Canadian Journal of Veterinary Research*.

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2012

Alexander, T.W. and McAllister, T.A. (2012). "Manipulating the ruminant microbiota to improve production.", 48th Annual Eastern Nutrition Conference of the Animal Nutrition Association of Canada (ANAC), Kitchener, ON, Canada, May 9-10, 2012.

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Klima, C.L., McAllister, T.A., Hendrick, S., and Alexander, T.W. (2011). "Antimicrobial susceptibility and genetic characterization of *Mannheimia haemolytica* isolates from the nasopharynx of feedlot cattle in western Canada.", Antimicrobial stewardship in Canadian agriculture and veterinary medicine conference: How is Canada doing and what still needs to be done?, Toronto Airport, Toronto, ON, Canada, October 30-November 2, 2011.

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Research Publications:

2013

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Ames, N.P. (2009). "Update on Barley Research in Western Canada.", Oat and Barley Council of Ontario Annual General Meeting, Victoria Park East Golf Club, Guelph, ON, Canada, January 20, 2009. (Presentation)

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Ames, N.P. and Shearer, C. (2008). "Novel whole grain food products from barley.", 2 pages. (Factsheet)

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Research Publications:

2014

Neilsen, G.H., Forge, T.A., Angers, D.A., Neilsen, D., and Hogue, E.J. (2014). "Suitable orchard floor management strategies in organic apple orchards that augment soil organic matter and maintain tree performance.", *Plant and Soil*. doi : 10.1007/s11104-014-2034-8

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Forge, T.A., Neilsen, G.H., Neilsen, D., O'Gorman, D.T., Hogue, E.J., Angers, D.A., and Bissonnette, N. (2013). "Organic orchard soil management practices affect soil biology and organic matter", II International symposium of organic matter management and compost use in horticulture III Workshop of bioproducts for agriculture and III Workshop of Ibero-american network for biological fertilizers for agriculture, Santiago, Chile, pp. 31.

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Research Publications:

2014

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Research Publications:

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Vergé, X.P.C., Maxime, D., Dyer, J.A., Desjardins, R.L., Arcand, Y., and VanderZaag, A.C. (2013). "Carbon footprint of Canadian dairy products: Calculations and issues.", *Journal of Dairy Science (JDS)*, 96(9), pp. 6091-6104. doi : 10.3168/jds.2013-6563

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Do, C.B., Labranche, J., Des Marchais, L.-P., Arcand, Y., and Villeneuve, S. (2012). "Effect of processing, cooking and mastication on *in vitro* digestibility of pasta.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Presentation)

Des Marchais, L.-P., Do, C.B., Arcand, Y., and Villeneuve, S. (2012). "Effect of flaxseed processing on fatty acids profile of pasta after drying, cooking and *in vitro* digestion.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Poster)

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Arcand, Y. (2011). "Development of the IViDiS : Another human *in vitro* digestion system.", Plant Bioactives Research in Canada. Canada-United Kingdom Gut and Health Workshop, AAFC-FRDC / AAC-CRDA, Saint-Hyacinthe, QC, Canada, February 24-25, 2011.

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Villeneuve, S., Mondor, M., and Arcand, Y. (2010). "Santé du consommateur: vision ingénierie d'une approche intégrée pour l'amélioration nutritionnelle des aliments lors de leur transformation.", Journées Scientifiques du Réseau de chercheurs Génie des procédés appliqué à l'agro-alimentaire (GP3A), Québec City, QC, Canada, June 2010. (Presentation)

2009

Boye, J.I., Arcand, Y., Benali, M., Moore Gagné, J.M., Dufresne, P., Montpetit, D., and Marcotte, M. (2009). "Functional properties of soy protein powders dried on inert particles.", 2009 Alberta Beekeepers Commission Annual General Meeting, Rosen Shingle Creek, Orlando, FL, USA, May 3-6, 2009. (Poster)

Arcand, Y., Boye, J.I., Benali, M., Moore Gagné, J.M., Dufresne, P., Montpetit, D., and Marcotte, M. (2009). "Comparison of the color and microstructural properties of soy proteins dried with spray drying, freeze drying and Inerjet.", 2009 Alberta Beekeepers Commission Annual General Meeting, Rosen Shingle Creek, Orlando, FL, USA, May 3-6, 2009. (Poster)

2008

Marcotte, M., Maxime, D., Arcand, Y., and Landry, D. (2008). "Eco-efficiency of the Canadian food and beverage industry: development of key environmental performance indicators.", 2008 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Delta Prince Edward Hotel, Charlottetown, PEI, Canada, May 25-27, 2008, # 07-2. (Presentation)

Maxime, D., Arcand, Y., Landry, D., and Marcotte, M. (2008). Water Intake and Discharge by the Food and Beverage Industry: WII & WDI indicators. (Report)

Maxime, D., Arcand, Y., Landry, D., and Marcotte, M. (2008). Packaging Use by the Food and Beverage Industry: PUI indicator. (Report)

Maxime, D., Arcand, Y., Landry, D., and Marcotte, M. (2008). Energy Consumption and Greenhouse Gas Emissions by the Food and Beverage Industry: EEI & GHGEI indicators. (Report)

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Research Publications:

2014

Aslam, M., Toufeer, M., Bravo, C.N., Lai, V., Rempel, H., Manges, A., and Diarra, M.S. (2014). "Characterization of Extraintestinal Pathogenic *Escherichia coli* Isolated from Retail Poultry Meats from Alberta, Canada", *International Journal of Food Microbiology*, 177, pp. 49-56. doi : 10.1016/j.ijfoodmicro.2014.02.006

2012

Aslam, M., Checkley, S.L., Avery, B., Chalmers, G., Bohaychuk, V.M., Gensler, G., Reid-Smith, R., and Boerlin, P. (2012). "Phenotypic and genetic characterization of antimicrobial resistance in *Salmonella* serovars isolated from retail meats in Alberta, Canada.", *Food Microbiology*, 32(1), pp. 110-117. doi : 10.1016/j.fm.2012.04.017

Aslam, M., Diarra, M.S., Checkley, S.L., Bohaychuk, V.M., and Masson, L. (2012). "Characterization of antimicrobial resistance and virulence genes in *Enterococcus* spp. Isolated from retail meats in Alberta, Canada.", *International Journal of Food Microbiology*, 156(3), pp. 222-230. doi : 10.1016/j.ijfoodmicro.2012.03.026

Sheikh, A.A., Checkley, S.L., Avery, B., Chalmers, G., Bohaychuk, V.M., Boerlin, P., Reid-Smith, R., and Aslam, M. (2012). "Antimicrobial Resistance and Resistance Genes in *Escherichia coli* Isolated from Retail Meat Purchased in Alberta, Canada.", *Foodborne Pathogens and Disease*, 9(7), pp. 625-631. doi : 10.1089/fpd.2011.1078

Aslam, M., Diarra, M.S., and Masson, L. (2012). "Characterization of antimicrobial resistance and virulence genotypes of *Enterococcus faecalis* recovered from a pork processing plant.", *Journal of Food Protection*, 75(8), pp. 1486-1491. doi : 10.4315/0362-028X.JFP-11-524

2010

Aslam, M., Stanford, K.I.M., and McAllister, T.A. (2010). "Characterization of antimicrobial resistance and seasonal prevalence of *Escherichia coli* O157:H7 recovered from commercial feedlots in Alberta, Canada.", *Letters in Applied Microbiology*, 50(3), pp. 320-326. doi : 10.1111/j.1472-765X.2010.02798.x

2009

Diarra, M.S., Giguère, K., Malouin, F., Lefebvre, B., Bach, S.J., Delaquis, P.J., Aslam, M., Ziebell, K.A., and Roy, G. (2009). "Genotype, serotype, and antibiotic resistance of sorbitol-negative *Escherichia coli* isolates from feedlot cattle.", *Journal of Food Protection*, 72(1), pp. 28-36.

Aslam, M., Diarra, M.S., Service, C., and Rempel, H. (2009). "Antimicrobial Resistance Genes in *Escherichia coli* Isolates Recovered from a Commercial Beef Processing Plant.", *Journal of Food Protection*, 72(5), pp. 1089-1093.

Aslam, M., Diarra, M.S., Service, C., and Rempel, H. (2009). "Characterization of Antimicrobial Resistance in *Enterococcus* spp. Recovered from a Commercial Beef Processing Plant.", *Foodborne Pathogens and Disease*, 7(3), pp. 235-241. doi : 10.1089/fpd.2009.0380

2008

Aslam, M. and Service, C. (2008). "Genetic characterization of spoilage pseudomonads isolated from retail-displayed beef.", *Letters in Applied Microbiology*, 47(3), pp. 153-157. doi : 10.1111/j.1472-765X.2008.02411.x

Other Science Related Publications:

2014

Aslam, M., Mehdi, T., Narvaez-Bravo, C., and Taboada, E.N. (2014). "Phenotypic and Molecular Characterization of Antimicrobial Resistance in *Campylobacter* Isolated from Retail meats Purchased in Alberta, Canada.", 8th Dubai International Food Safety Conference, November 17-19, 2014. (Poster)

2013

Aslam, M., Weese, J.S., Diarra, M.S., Reid-Smith, R., and Deckert, A. (2013). Prevalence and characterization of methicillin-resistant *Staphylococcus aureus* isolated from commercial pork processing plant. Final report to ALMA on project 2010F018R. (Report)

Mehdi, T., Narvaez-Bravo, C., Weese, J.S., Deckert, A., Smith, R.R., Diarra, M.S., and Aslam, M. (2013). "Prevalence and Characterization of Methicillin-Resistant *Staphylococcus aureus* Isolated from Commercial Pork Processing Plants in Alberta, Canada.", Annual meeting of International Association for Food Protection, Charlotte, North Carolina, USA, July 28-31, 2013. (Poster)

2012

Diarra, M.S., Lai, V., Rempel, H., Bravo, C.A.N., Aslam, M., and Manges, A.R. (2012). "Characterization of extraintestinal pathogenic *Escherichia coli* isolated from retail poultry meats in Alberta Canada.", 101st Annual Meeting of the International Association of Food Protection (IAFP 2012), Rhode Island Convention Center, Providence, RI, USA, July 22-25, 2012, Poster ID# 2291. (Poster)

Aslam, M., Diarra, M.S., and Masson, L. (2012). "Characterization of antimicrobial resistance and virulence genes in *Enterococcus faecalis* isolated from a pork processing plant.", 101st Annual Meeting of the International Association of Food Protection (IAFP 2012), Rhode Island Convention Center, Providence, RI, USA, July 22-25, 2012, (Poster ID# 2317. (Poster)

2011

Diarra, M.S., Lai, V., Heidi, R., Service, C., Aslam, M., and Manges, A.R. (2011). "Detection of virulence genes in *Escherichia coli* isolated from retail poultry meats.", Canadian Meat Science Association 60th Annual Meeting / Canadian Meat Council Technical Symposium 91st Annual Conference, Halifax, NS, Canada, May 4-7, 2011.

2010

Aslam, M., Bohaychuk, V.M., Diarra, M.S., and Masson, L. (2010). "Characterization antimicrobial resistance in *Enterococcus* spp. Recovered from retail meat samples collected from Alberta.", 90th Annual Conference of the Canadian Meat Council, Fairmont Empress Victoria Conference Centre, Victoria, BC, Canada, May 5-7, 2010. (Poster)

Meadus, W.J., Chau, W., Aslam, M., and Bing, D.-J. (2010). "Identifying cultivated pea varieties using a rapid DNA test for the retro-transposon genes Ogr and Cyclops.", 5th International Food Legumes Research Conference (IFLRC V) and 7th European Conference on Grain Legumes (AEP VII), Antalya, Turkey, April 26-30, 2010.

2009

Aslam, M., Service, C., Rempel, H., and Diarra, M.S. (2009). "Analysis of Antimicrobial Resistance in *Enterococcus* spp. Recovered from a Commercial Beef Processing Plant.", 96th Annual Meeting of the International Association of Food Protection, Grapevine, TX, USA, July 12-15, 2009. (Abstract)

Aslam, M. (2009). "Characterization of Antimicrobial Resistance during Animal Production, Slaughter and Processing, and on Retail Meats.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Abstract)

Aslam, M., Bohaychuk, V.M., Checkley, S.L., Diarra, M.S., Reid-Smith, R., and Avery, B. (2009). "Characterization of antimicrobial resistance in *E. coli*, enterococci and *Salmonella* from retail meats in Alberta.", 89th Annual Conference of the Canadian Meat Council, Fairmont Queen Elizabeth Hotel, Montréal, QC, Canada, May 6-8, 2009. (Abstract)

2008

Aslam, M., Bedie, G.K., Bohaychuk, V.M., Checkley, S.L., Diarra, M.S., Reid-Smith, R., and Avery, B. (2008). "The prevalence of antimicrobial resistance in *Escherichia coli* and enterococci from retail meat samples collected from Alberta.", Annual Canadian Meat Science Association (CMSA) Meeting, Niagara Falls, ON, Canada, May 7-9, 2008. (Abstract)

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Other Science Related Publications:

2012

Boyetchko, S.M., Zhou, T., Audy, P., and Svircev, A.M. (2012). "Evaluation of promising bacterial strains for biological control of post-harvest and storage decay pathogens on fruits and vegetables.", 4th Joint Saskatchewan-Alberta Plant Pathology Conference, Lloydminster, SK, Canada, November 5-7, 2012.

Boyetchko, S.M., Zhou, T., Audy, P., and Svircev, A.M. (2012). "Assessment of bacterial strains for biological control of pathogens causing post-harvest and storage decay of fruits and vegetables.", Canadian Phytopathological Society (CPS) 83rd Annual Meeting and International PPV Meeting, Marriott Gateway On The Falls, Niagara Falls, ON, Canada, June 24-27, 2012.

Berthiaume, R.R., Tremblay, G.F., Bélanger, G., Audy, P., Lafrenière, C., Charbonneau, É., and Allard, G. (2012). "Des variétés de fourrages performantes aux champs et à l'étable, est-ce possible?", Réunion annuelle des représentants Semican Lallemand 2012, Victoriaville, QC, Canada, July 17, 2012.

2011

Tremblay, G.F., Berthiaume, R.R., Bélanger, G., Audy, P., Lafrenière, C., Charbonneau, É., and Allard, G. (2011). "Valeur alimentaire des ensilages fabriqués à partir de fourrages plus sucrés.", Réunion annuelle des représentants Semican Lallemand 2011, Victoriaville, QC, Canada, June 15, 2011.

Audy, P., Boyetchko, S.M., Le Floch-Fouère, C., and Sawchyn, K. (2011). "Assessment of bacterial antagonists for control of *Phytophthora infestans* causing postharvest storage disease of potato.", 4th International Biofumigation & Biopesticides Symposium, Sheraton Cavalier Hotel, Saskatoon, SK, Canada, October 18-21, 2011. (Poster)

Audy, P., Boyetchko, S.M., Le Floch-Fouère, C., and Sawchyn, K. (2011). "In vitro antagonistic effects of bacteria on potato late blight causing agent *Phytophthora infestans*.", Canadian Phytopathological Society (CPS) 82nd Annual Meeting (with Plant Canada 2011), Halifax, NS, Canada, July 17-21, 2011. (Poster)

Audy, P., Boyetchko, S.M., Le Floch-Fouère, C., and Sawchyn, K. (2011). "Effets antagonistes *in vitro* de microorganismes bactériens de la rhizosphère envers *Phytophthora infestans*, l'agent de la brûlure tardive de la pomme de terre.", Réunion annuelle conjointe Société de Protection des Plantes du Québec (SPPQ-SEQ), Montmagny, QC, Canada, June 14-15, 2011.

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Research Publications:

2014

Na, R., Yu, D., Chapman, B. P., Zhang, Y., Kufli, K., Austin, R.S., Qutob, D., Zhao, J., Wang, Y., and Gijzen, M. (2014). "Genome Re-Sequencing and Functional Analysis Places the Phytophthora sojae Avirulence Genes Avr1c and Avr1a in a Tandem Repeat at a Single Locus.", *PLoS ONE*. doi : 10.1371/journal.pone.0089738

2013

Zou, X., Shi, C., Austin, R.S., Merico, D., Munholland, S., Marsolais, F., Navabi, A., Crosby, W.L., Pauls, K.P., Yu, K., and Cui, Y. (2013). "Genome-wide single nucleotide polymorphism and Insertion-Deletion discovery through next-generation sequencing of reduced representation libraries in common bean.", *Molecular Breeding*, 33(4), pp. 769-778. doi : 10.1007/s11032-013-9997-7

Austin, R.S., Wu, D., Zhou, S., and Brown, D.C.W. (2013). "The root transcriptome for North American ginseng assembled and profiled across seasonal development.", *BMC Genomics*, 14(564). doi : 10.1186/1471-2164-14-564

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Schreiber, K.J., Austin, R.S., Gong, Y., Zhang, J., Fung, P., Wang, P.W., Guttman, D.S., and Desveaux, D. (2012). "Forward chemical genetic screens in Arabidopsis identify genes that influence sensitivity to the phytotoxic compound sulfamethoxazole.", *BMC Plant Biology*, 12:226. doi : 10.1186/1471-2229-12-226

Liao, D., Pajak, A., Karcz, S.R., Chapman, B. P., Austin, R.S., Sharpe, A.G., Datta, R.S.S., Dhaubhadel, S., and Marsolais, F. (2012). "Transcripts of sulfur metabolic genes are coordinately regulated in developing seeds of common bean lacking phaseolin and major lectins.", *Journal of Experimental Botany*, 63(17), pp. 6283-6295. doi : 10.1093/jxb/ers280

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Winter, C.M., Austin, R.S., Blanvillain-Baufumé, S., Reback, M.A., Monniaux, M., Wu, M.F., Sang, Y., Yamaguchi, A., Yamaguchi, N., Parker, J.E., Parcy, F., Jensen, S.T., Li, H., and Wagner, D. (2011). "LEAFY target genes reveal floral regulatory logic, cis motifs, and a link to biotic stimulus response.", *Developmental Cell*, 20(4), pp. 430-443. doi : 10.1016/j.devcel.2011.03.019

Austin, R.S., Vidaurre, D., Stamatiou, G., Breit, R., Provar, N.J., Bonetta, D., Zhang, J., Fung, P., Gong, Y., Wang, P.W., McCourt, P., and Guttman, D.S. (2011). "Next-generation mapping of Arabidopsis genes.", *Plant Journal*, 67(4), pp. 715-725. doi : 10.1111/j.1365-313X.2011.04619.x

2009

Morris, P.F., Schlosser, L.R., Onasch, K.D., Wittenschlaeger, T., Austin, R.S., and Provar, N.J. (2009). "Multiple horizontal gene transfer events and domain fusions have created novel regulatory and metabolic networks in the oomycete genome.", *PLoS ONE*, 4(7, Article No. e6133). doi : 10.1371/journal.pone.0006133

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Austin, R.S., Provar, N.J., and Cutler, S.R. (2007). "C-terminal motif prediction in eukaryotic proteomes using comparative genomics and statistical over-representation across protein families.", *BMC Genomics*, 8:191. doi : 10.1186/1471-2164-8-191

Other Science Related Publications:

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Elhiti, M., Wang, H., Chen, B., Xu, A., Austin, R.S., Brown, R., and Wang, A.M. (2013). "Towards generation of peach (*Prunus persica* L. Batsch) mutants resistant to Plum pox virus (PPV).", 2013 CSPB/SCBV Annual General Meeting, Quebec City, Canada, June 25-28, 2013.

2012

Wu, D., Austin, R.S., Zhou, S., and Brown, D.C.W. (2012). "De novo assembly of the North American Ginseng root transcriptome and analysis of expression during development.", International Conference on Cultivating Natural Bioactives for Health & Disease, London Convention Centre, London, ON, Canada, July 9-11, 2012.

Pandurangan, S., Pajak, A., Austin, R.S., and Marsolais, F. (2012). "Transcriptional responses to exogenous asparagine in *Arabidopsis* roots.", 51st Phytochemical Society of North America (PSNA) Annual Meeting, University of Western Ontario, London, ON, Canada, August 11-15, 2012, Published in: *Pharm. Biol.*, (50), pp. 1341.

Zou, X., Shi, C., Austin, R.S., Navabi, A., Yu, K., and Cui, Y. (2012). "Genome Wide SNP discovery and transcriptional profiling of CBB resistance in common bean.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)

Na, R., Yu, D., Chapman, A.D., Austin, R.S., Zhao, J., and Gijzen, M. (2012). "Mapping of the *Phytophthora sojae* avirulence gene *Avr1c* a combined strategy of bulk segregant analysis and next generation sequencing.", Canadian Phytopathological Society (CPS) South Western Ontario Regional 2012 Meeting, Southern Crop Protection and Food Research Centre, AAFC, London, ON, Canada, November 3, 2012, Published in: *Canadian Journal of Plant Pathology* (2013), 35(1), 97 (Abstract).

Pandurangan, S., Pajak, A., Marsolais, F., and Austin, R.S. (2012). "Transcriptional responses to exogenous asparagine in *Arabidopsis* roots.", *Pharmaceutical Biology*, 50, pp. 1341. (Abstract)

2011

Lo, T., Chatfield, S.P., Austin, R.S., Lewis, J., Breit, R., Santos-Severino, A., Provart, N.J., Fung, P., Wang, P.W., Guttman, D.S., and Desveaux, D. (2011). "Next-generation mapping of disease resistance genes in *Arabidopsis*: Exploiting natural variation.", Canadian Society of Plant Physiologists Eastern Regional Meeting & Plant Development Workshop / Congrès de la Société Canadienne de Physiologie Végétale & Congrès de Développement Végétale (Congrès Régional de l'Est), Carleton University, Ottawa, ON, Canada, December 2-3, 2011, SC-5, pp. 22.

2010

Austin, R.S., Yang, L., Zhang, J., Fung, P., Gong, Y., Wang, P.W., Laberge, S., Guttman, D.S., and McCourt, P. (2010). "Toward a transcriptomic reference assembly for Alfalfa.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #69, pp. 46. (Poster)

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Research Publications:

2014

Stanich, K., Bach, S.J., Baah, J., and McAllister, T.A. (2014). "A mixture of *Lactobacillus casei*, *Lactobacillus lactis* and *Paenibacillus polymyxa* reduces *Escherichia coli* O157:H7 in finishing feedlot cattle.", *Journal of Food Protection*, 77(5), pp. 738-744. doi : 10.4315/0362-028X.JFP-13-433

2013

Naghmouchi, K., Baah, J., Hober, D., Jouy, E., Rubrecht, C., Sané, F., and Drider, D. (2013). "Synergistic effect between colistin and bacteriocins in controlling gram-negative pathogens and their potential to reduce antibiotic toxicity in mammalian epithelial cells.", *Antimicrobial Agents and Chemotherapy*, 57(6), pp. 2719-2725. doi : 10.1128/AAC.02328-12

2012

Chaves, A.V., Baah, J., Wang, Y., McAllister, T.A., and Benchaar, C. (2012). "Effects of cinnamon leaf, oregano and sweet orange essential oils on fermentation and aerobic stability of barley silage.", *Journal of the Science of Food and Agriculture*, 92(4), pp. 906-915. doi : 10.1002/jsfa.4669

Addah, W., Karikari, P.K., Baah, J. (2012). "Under nutrition in the ewe: Foeto-placental adaptation, and modulation of lamb birth weight: A review.", *Livestock Research for Rural Development*, 24(9), pp. 10.

Naghmouchi, K., Hammami, R., Fliss, I., Baah, J., and Drider, D. (2012). "Colistin A and colistin B among inhibitory substances of *Paenibacillus polymyxa* JB05-01-1.", *Archives of Microbiology*, 194(5), pp. 363-370. doi : 10.1007/s00203-011-0764-z

Meale, S.J., Chaves, A.V., Baah, J., and McAllister, T.A. (2012). "Methane Production of Different Forages in *In vitro* Ruminal Fermentation.", *Asian-Australasian Journal of Animal Science*, 25(1), pp. 86-91. doi : 10.5713/ajas.2011.11249

Addah, W., Baah, J., Okine, E.K., and McAllister, T.A. (2012). "Use of thermal imaging and the in situ technique to assess the impact of an inoculant with feruloyl esterase activity on the aerobic stability and digestibility of barley silage.", *Canadian Journal of Animal Science*, 92(3), pp. 381-394. doi : 10.4141/CJAS2012-016

2011

McAllister, T.A., Beauchemin, K.A., Alazeh, A.Y., Baah, J., Teather, R.M., and Stanford, K.I.M. (2011). "The use of direct fed microbials to mitigate pathogens and enhance production in cattle."

Baah, J., Tait, R.M., and Tuah, A.K. (2011). "Selecting browse plants to supplement cassava peel-based diet for peri-urban small ruminants.", *Small Ruminant Research*, 96(1), pp. 36-40. doi : 10.1016/j.smallrumres.2010.11.006

Naghmouchi, K., Paterson, L.J., Forster, R.J., McAllister, T.A., Ohene-Adjei, S., Drider, D., Teather, R.M., and Baah, J. (2011). "*Paenibacillus polymyxa* JB05-01-1 and its perspectives for food conservation and medical applications.", *Archives of Microbiology*, 193(3), pp. 169-177. doi : 10.1007/s00203-010-0654-9

Addah, W., Baah, J., Groenewegen, P., Okine, E.K., and McAllister, T.A. (2011). "Comparison of the fermentation characteristics, aerobic stability and nutritive value of barley and corn silages ensiled with or without a mixed bacterial inoculant.", *Canadian Journal of Animal Science*, 91(1), pp. 133-146. doi : 10.4141/cjas10071

Addah, W., Baah, J., Okine, E.K., and McAllister, T.A. (2011). "A third-generation esterase inoculant alters fermentation pattern and improves aerobic stability of barley silage and the efficiency of weight gain of growing feedlot cattle.", *Journal of Animal Science*, 90(5), pp. 1541-1552. doi : 10.2527/jas.2011-4085

2010

Naghmouchi, K., Drider, D., Baah, J., and Teather, R.M. (2010). "Nisin A and Polymyxin B as Synergistic Inhibitors of Gram-positive and Gram-negative Bacteria.", *Probiotics and Antimicrobial Proteins*, 2(2), pp. 98-103. doi : 10.1007/s12602-009-9033-8

Naghmouchi, K., Belguesmia, Y., Baah, J., Teather, R.M., and Drider, D. (2010). "Antibacterial activity of class I and IIa bacteriocins combined with polymyxin E against resistant variants of *Listeria monocytogenes* and *Escherichia coli*.", *Research in Microbiology*, 162(2), pp. 99-107. doi : 10.1016/j.resmic.2010.09.014

2009

Baah, J., Wang, Y., and McAllister, T.A. (2009). "Impact of a mixed culture of *Lactobacillus casei* and *L. lactis* on *in vitro* ruminal fermentation and the growth of feedlot steers fed barley-based diets.", *Canadian Journal of Animal Science*, 89(2), pp. 263-271. doi : 10.4141/CJAS08117

Addah, W., Tia, S., Baah, J., and Okine, E.K. (2009). "Knowledge and practices of smallholder farmers and herdsmen in the use of acaricides and gastrointestinal anthelmintics in Ghana.", *Livestock Research for Rural Development*, 21(11, Article No. 198).

2008

Boateng, M., Okai, D.B., Baah, J., and Donkoh, A. (2008). "Palm kernel cake extraction and utilisation in pig and poultry diets in Ghana.", *Livestock Research for Rural Development*, 20(7, Article No. 99).

2007

Baah, J., Ivan, M., Hristov, A.N., Koenig, K.M., Rode, L.M., and McAllister, T.A. (2007). "Effects of potential dietary antiprotozoal supplements on rumen fermentation and digestibility in heifers.", *Animal Feed Science and Technology*, 137(1-2), pp. 126-137. doi : 10.1016/j.anifeedsci.2006.11.004

Other Science Related Publications:

2013

Lynch, J.P., Jin, L., Lara, E.C., Church, J.S., Baah, J., and Beauchemin, K.A. (2013). "The ensilage dynamics and nutritive value of alfalfa silage produced using fibrolytic enzymes and a silage inoculant.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P22, pp. 33. (Poster)

Jin, L., Lynch, J.P., Duniere, L., Wang, Y., Baah, J., Beauchemin, K.A., and McAllister, T.A. (2013). "Effect of inoculant containing *L. buchneri* on ensiling fermentation of whole barley crop.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P64, pp. 51. (Poster)

Jin, L., Lynch, J.P., Duniere, L., Wang, Y., Baah, J., Beauchemin, K.A., and McAllister, T.A. (2013). "Ensiling properties of whole crop barley and intercropped barley-oat-spring triticale.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P63, pp. 51. (Poster)

Subramanian, S., McAllister, T.A., Baah, J., and Alexander, T.W. (2013). "Analysis of probiotic bacteria to inhibit the respiratory pathogen *Mannheimia haemolytica* and adhere to bovine bronchial epithelial cells *in vitro*.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P57, pp. 49. (Poster)

Addah, W., Baah, J., McAllister, T.A., and Okine, E.K. (2013). "Effects of an esterase-producing inoculant and chop-length on silage fermentation, ruminal fermentation, growth performance and carcass characteristics of finishing feedlot steers.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, O14-GS, pp. 8.

2012

Addah, W., Baah, J., Okine, E.K., and McAllister, T.A. (2012). "Effects of an esterase-producing inoculant and chop-length on fermentation and aerobic stability of barley silage.", Joint Annual Meeting, American Dairy Science Association, Poultry Science Association, American Milk Producers Association, Canadian Society of Animal Science, and American Society of Animal Science, Phoenix, Arizona, USA, July 15-19, 2012.

Addah, W., Baah, J., and Okine, E.K. (2012). "Effects of an esterase-producing inoculant and chop-length on fermentation and aerobic stability of barley silage.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012.

2011

Addah, W., Baah, J., Okine, E.K., and McAllister, T.A. (2011). "Effects of applying a feroyl esterase silage inoculant at ensiling on *in situ* neutral detergent fibre disappearance of barley silage.", 60th Annual Meeting of the Canadian Society of Animal Science (CSAS), Atlantica Hotel, Halifax, NS, Canada, May 4-5, 2011.

Addah, W., Baah, J., Barkley, C., Wilde, R.E., Okine, E.K., and McAllister, T.A. (2011). "Use of infrared thermography to assess the aerobic stability of silage.", 32nd Western Nutrition Conference: Quality from Complexity, Crowne Plaza Chateau Lacombe, Edmonton, AB, Canada, September 14-15, 2011.

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McAllister, T.A., Beauchemin, K.A., Baah, J., Teather, R.M., and Stanford, K.I.M. (2009). "A review of the use of direct-fed microbials to mitigate pathogens and enhance production in cattle (Abstract 645).", *Journal of Dairy Science (JDS)*, 92(E-Suppl. 1), pp. 538. (Abstract)

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Research Publications:

2014

Stanich, K., Bach, S.J., Baah, J., and McAllister, T.A. (2014). "A mixture of *Lactobacillus casei*, *Lactobacillus lactis* and *Paenibacillus polymyxa* reduces *Escherichia coli* O157:H7 in finishing feedlot cattle.", *Journal of Food Protection*, 77(5), pp. 738-744. doi : 10.4315/0362-028X.JFP-13-433

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2012

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Toivonen, P.M.A., Lu, C., Delaquis, P.J., and Bach, S.J. (2011). "Timing of sanitizer application reduces microbial counts on fresh-cut Romaine lettuce.", 2nd ISHS International Conference on Quality Management of Fresh Cut Produce: Convenience Food for a Tasteful Life, Università degli Studi di Torino, Torino, Italy, July 17-21, 2011.

2010

Bach, S.J., Leblanc, D., and Lin, P. (2010). "The influence of chlorine and low temperature on the induction of the viable but non-culturable state in *Escherichia coli* O157:H7.", 2010 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010, # 02-2. (Abstract)

Toivonen, P.M.A., Lu, C., Delaquis, P.J., and Bach, S.J. (2010). "Evaluation of timing for application of sanitizing washes to reduce microbial counts on Romaine lettuce.", 14th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 3-4, 2010, pp. 28.

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Delaquis, P.J., Bach, S.J., LeBlanc, D.I., Brassard, J., Houde, A., Villeneuve, S., Bezanson, G.S., Diarra, M.S., Topp, E., Blais, B., Gajadhar, A., Bisaillon, J.-R., Fazil, A.M., Gilmour, M., Mattison, K., and Bidawid, S. (2009). "A systems-based approach for the assessment of microbiological threats to the food supply.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Presentation)

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Diarra, M.S., Diarrassouba, F., Rempel, H., Brousseau, R., Masson, L., Bonnet, C., Pritchard, J., Delaquis, P.J., Bach, S.J., Topp, E., and Skura, B.J. (2008). "DNA-microarray analyses of antimicrobial resistance and virulence genes of *Escherichia coli* O7 isolates from healthy broiler chickens.", Joint Meeting of 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC™) and 46th Annual Meeting of the Infectious Diseases Society of America, Washington, DC, USA, October 25-28, 2008. (Abstract)

Wang, Y., Xu, Z., Bach, S.J., and McAllister, T.A. (2008). "Effects of *Ascophyllum nodosum* phlorotannins on *in vitro* ruminal digestion of barley grain.", *Canadian Journal of Animal Science*, 88(1), pp. 143. (Abstract)

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Delaquis, P.J., Bach, S.J., Toivonen, P.M.A., and Kappel, F. (2007). Identification of sources of *Escherichia coli* in the cherry production and processing environments and evaluation of alternative sanitizers for hydrocooler water. Submitted to the Okanagan Kootenay Cherry Growers Association and the AAFC Matching Investment Initiative. (Report)

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Research Publications:

2014

Rasmussen, J.B., Gilroyed, B.H., Reuter, T.R., Badea, A., Eudes, F., Graf, R.J., Laroche, A., Kav, N.N.V., and McAllister, T.A. (2014). "Efficiency of protein as a nitrogen source for wheat and morphological changes in roots exposed to high protein concentrations.", *Canadian Journal of Plant Science*, 94(4), pp. 603-613. doi : 10.4141/cjps2013-187

2013

Graf, R.J., Beres, B.L., Laroche, A., Gaudet, D.A., Eudes, F., Pandeya, R.S., Badea, A., and Randhawa, H.S. (2013). "Emerson hard red winter wheat.", *Canadian Journal of Plant Science*, 93(4), pp. 741-748. doi : 10.4141/CJPS2012-262

Badea, A., Eudes, F., Laroche, A., Graf, R.J., Doshi, K., Amundsen, E.J., Nilsson, D., and Puchalski, B. (2013). "Antimicrobial peptides expressed in wheat reduce susceptibility to *Fusarium* head blight and powdery mildew.", *Canadian Journal of Plant Science*, 93(2), pp. 199-208. doi : 10.4141/CJPS2012-125

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2009

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Other Science Related Publications:

2013

Tucker, J.R., Legge, W.G., Badea, A., and Fetch Jr., T.G. (2013). "Breeding for stem rust (*Puccinia graminis* f. sp. tritici) resistance in barley (*Hordeum vulgare*) at the AAFC Brandon Research Centre: Future directions.", Manitoba Regional Meeting of the Canadian Phytopathological Society, Carman, MB, Canada, November 20, 2013. (Poster)

2011

Badea, A., Thurston, G., Simmonds, J.A., Frick, M., and Laroche, A. (2011). "Expression of an endoglucanase enzyme in corn and triticale: an alternative system for improving cellulosic biofuel extraction.", Plant & Animal Genome XIX Conference, Town & Country Convention Center, San Diego, CA, USA, January 15-19, 2011, P699, pp. 201. (Poster)

2010

Badea, A., Eudes, F., Laroche, A., Frick, M., Amundsen, E.J., Puchalski, B., and Misra, S. (2010). "Expression of 10R and MsrA2 antimicrobial peptides enhances FHB resistance in wheat transgenic lines.", 31st Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, October 12-14, 2010. (Presentation)

Badea, A., Byun, B.-H., Marshall, K., Frick, M., Laberge, S., Simmonds, J.A., Thurston, G., Tsang, A., Qi, M., McAllister, T.A., Eudes, F., and Laroche, A. (2010). "Expression of biomass-degrading enzymes in triticale: an alternative system for improving cellulosic biofuel extraction.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #92, pp. 51. (Poster)

2009

Badea, A., Eudes, F., Laroche, A., Salmon, D.F., Tuvesson, S., Larsson, C.-T., Vrolijk, A., and Kilian, A. (2009). "Diversity arrays technology (DArT): a high-throughput genomic tool for analyzing the complex triticale genome.", 7th International Triticale Symposium, 2009 CIMMYT, Ciudad Obregón, Sonora, México, March 23-26, 2009. (Poster)

Badea, A., Xu, Y., Eudes, F., Nilsson, D., Frick, M., and Laroche, A. (2009). "Cereals for cellulosic ethanol: modification of cell walls.", Cellulosic Biofuel Network (CBioN) 1st Annual General Meeting, Montréal, QC, Canada, March 27-28, 2009. (Presentation)

Badea, A., Eudes, F., Foroud, N.A., and Misra, S. (2009). "Phenotypic evaluation of wheat transgenic lines expressing 10R and MsrA2 antimicrobial peptides.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

2008

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Eudes, F., Badea, A., Laroche, A., Gaudet, D.A., Graf, R.J., and Sadasivaiah, R.S. (2007). "In vitro selection and molecular markers for early screening of Fusarium Head Blight resistance wheat.", in Xu, Z., Li, J., Xue, Y., and Yang, W. (eds.) *Biotechnology and Sustainable Agriculture 2006 and Beyond: Proceedings of the 11th IAPTC&B Congress*, August 13-18, 2006 Beijing, China, Springer, pp. 349-352.

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Research Publications:

2013

Evans, H.C., Seier, M.K., Derby, J.-A., Falk, S., and Bailey, K.L. (2013). "Tracing the origins of White Tip disease of *Cirsium arvense* and its causal agent, *Phoma macrostoma*.", *Weed Research*, 53(1), pp. 42-52. doi : 10.1111/j.1365-3180.2012.00951.x

Bailey, K.L., Falk, S., Derby, J.-A., Melzer, M., and Boland, G.J. (2013). "The effect of fertilizers on the efficacy of the bioherbicide, *Phoma macrostoma*, to control broadleaved weeds in turfgrass.", *Biological Control*, 65(1), pp. 147-151. doi : 10.1016/j.biocontrol.2013.01.003

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Research Publications:

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Research Publications:

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Bakkeren, G., Kruzal, E.K., and Hull, C.M. (2012). "Sex and Virulence in Basidiomycete Pathogens.", in Sibley, L.D., Howlett, B.J., and Heitman, J. (eds.) *Evolution of Virulence in Eukaryotic Microbes*, Wiley Blackwell, Chapter 23, pp. 437-460.

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Hamelin, R.C., Bakkeren, G., Saville, B., McCallum, B.D., Fetch Jr., T.G., Wang, X., Joly, D.L., and Tanguay, P. (2011). "Emergence and evolution of forest and cereal rusts.", Quebec Society for Plant Protection Annual Meeting: Exotic and invasive species., Montmagny, QC, Canada, June 2011. (Presentation)

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Cuomo, C.A., Duplessis, S., Grabherr, M.G., Mauceli, E., Sakthikumar, S., Young, S., Zeng, Q., Bakkeren, G., Chen, X.M., Fellers, J.P., Grigoriev, I.V., Martin, F.N., Martin, F., and Szabo, L.J. (2011). "Comparative Genomic Analysis of Rust Fungi.", Plant & Animal Genome XIX Conference, Town & Country Convention Center, San Diego, CA, USA, January 15-19, 2011, W268. (Presentation)

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Bakkeren, G., Laurie, J.D., and Linning, R. (2008). "Analysis of a gene cluster harbouring an avirulence function in the barley smut fungus, *Ustilago hordei*.", IVth International *Ustilago* Meeting, Rauschholzhausen, Germany, August 20-24, 2008. (Presentation)

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Ali, S., Menzies, J.G., Grewal, T.S., Rosnagel, B.G., Scoles, G.J., and Bakkeren, G. (2008). "Marker-based approaches for the cloning of novel avirulence genes from *Ustilago hordei*; Agrobacterium-mediated transformation of *U. hordei*.", IVth International *Ustilago* Meeting, Rauschholzhausen, Germany, August 20-24, 2008. (Presentation)

Penniket, C., Gaudet, D.A., Frick, M., Bakkeren, G., and Laroche, A. (2008). "Understanding host and non-host plant pathogen interactions using transcriptional analysis of wheat and barley infected with the barley smut pathogen *Ustilago hordei*.", Canadian Phytological Society (CPS)-Saskatchewan Regional Group & the Alberta Plant Pathology Society Joint Meeting 2008, Lloydminster, SK, Canada, October 20-22, 2008. (Presentation)

Laurie, J.D., Linning, R., and Bakkeren, G. (2008). "Hallmarks of RNA silencing are found in the smut fungus *Ustilago hordei* but not in its close relative *U. maydis*.", Keystone Symposium: RNAi, MicroRNA, and Non-Coding RNA, Whistler, BC, Canada, March 25-30, 2008. (Poster)

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Rampitsch, C., Soltani, B.M., Bakkeren, G., and Bykova, N.V. (2007). "Proteomic analyses of enriched haustoria from the compatible interaction between wheat and wheat leaf rust (*Puccinia triticina*).", 24th Annual Missouri Plant Biology Symposium (Plant Protein Phosphorylation-Dephosphorylation and Mini-Symposium on Plant Proteomics), University of Missouri, Columbia, MO, USA, May 22-25, 2007.

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Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Puchalski, B., Bakkeren, G., and Laroche, A. (2007). "Histological observations on hostand non-host interactions between wheat and barley and the smut pathogens *Tilletia tritici* and *Ustilago hordei*.", 28th Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, November 5-7, 2007. (Poster)

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Research Publications:

2013

Ahmed, R. and Balamurugan, S. (2013). "Evaluation of three *Arcobacter* selective agars for selective enumeration of *Arcobacter butzleri* in beef.", *Food Research International*, 52(2), pp. 522-525. doi : 10.1016/j.foodres.2013.02.029

Balamurugan, S., Ahmed, R., and Chambers, J.R. (2013). "Survival of *Arcobacter butzleri* on vacuum packaged chill stored beef.", *Food Research International*, 52(2), pp. 503-507. doi : 10.1016/j.foodres.2013.01.048

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Yang, X.Q., Balamurugan, S., and Gill, C.O. (2009). "Substrate utilization by *Clostridium estertheticum* cultivated in meat juice medium.", *International Journal of Food Microbiology*, 128(3), pp. 501-505. doi : 10.1016/j.ijfoodmicro.2008.10.024

Other Science Related Publications:

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Chibeu, A., Agius, L., Sabour, P.M., Kropinski, A.M., and Balamurugan, S. (2013). "Efficacy of bacteriophage Listex™ P100 in presence of chemical antimicrobials reducing *Listeria monocytogenes* on roast beef and cooked turkey.", 11th OMAFRA Food Safety Research Forum, Guelph, ON, Canada.

Ahmed, R., Gao, A., and Balamurugan, S. (2013). "Growth and inactivation of Shiga-toxin producing *E. coli* under conditions relevant for fermented sausages.", 11th OMAFRA Food Safety Research Forum, Guelph, ON, Canada.

Chibeu, A., Agius, L., Gao, A., Sabour, P.M., Kropinski, A.M., and Balamurugan, S. (2013). "Effectiveness of bacteriophage Listex™ P100 combined with chemical antimicrobials in reducing *Listeria monocytogenes* on roast beef and cooked turkey.", 20th Biennial Evergreen International Phage Meeting, Olympia, WA, USA.

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Balamurugan, S. and Baker, L.P. (2010). "Survival of *Arcobacter butzleri* on vacuum packaged beef stored under refrigerated temperatures.", 97th Annual Meeting of the International Association of Food Protection, Anaheim Convention Center, Anaheim, CA, USA, August 1-4, 2010.

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Research Publications:

2014

Akter, Z., Pageni, B.B., Lupwayi, N.Z., and Balasubramanian, P.M. (2014). "Biological nitrogen fixation and *nifH* gene expression in dry beans (*Phaseolus vulgaris* L.)", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-200

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Balasubramanian, P.M., Chatterton, S., Hou, A., Conner, R.L., McLaren, D.L., Navabi, A., Pauls, K.P., and Bett, K.E. (2012). "Dry bean improvement on the prairies for high yield, disease resistance and seed quality.", Pulse Science Cluster Scientific Meeting 2012, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 5-6, 2012.

Larney, F.J., Pearson, D.C., Blackshaw, R.E., Lupwayi, N.Z., Regitnig, P.J., and Balasubramanian, P.M. (2012). "Irrigated crop rotation research: Findings from the Vauxhall rotation study over 12 years (2000-11).", 2012 Irrigated Crop Production Update Conference, Lethbridge, AB, Canada, January 31-February 1, 2012. (Abstract)

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Boersma, J.G., Conner, R.L., Balasubramanian, P.M., Gillard, C.L., and Hou, A. (2011). "Evaluation of dry bean lines for resistance to common bacterial blight.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011.

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Balasubramanian, P.M., Hou, A., Conner, R.L., McLaren, D.L., Navabi, A., and Pauls, K.P. (2011). "Improvement of dry bean on the prairies for high yield, disease resistance and seed quality.", Pulse Science Cluster Scientific Meeting 2011, Radisson Hotel, Saskatoon, SK, Canada, November 17-18, 2011.

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- Conner, R.L., Hou, A., and Balasubramanian, P.M. (2009). "Root rot resistance in dry bean cultivars.", *Pulse Beat*, 58, pp. 27.
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- Marles, M.A.S., Balasubramanian, P.M., and Bett, K.E. (2009). "Seed coat pigmentation traits of black and red bean phenotypes.", XXth Biennial Meeting of the Bean Improvement Cooperative, Hilton Garden Inn, Fort Collins, CO, USA, October 25-28, 2009. (Poster)
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Research Publications:

2014

Mapiye, C., Turner, T.D., Basarab, J.A., Baron, V.S., Aalhus, J.L., and Dugan, M.E.R (2014). "Subcutaneous fatty acid composition of steers finished as weanlings or yearlings with and without growth promotants.", *Journal of Animal Science*. doi : 10.1186/2049-1891-4-41

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- Baron, V.S. (2013). "Reduce winter feeding costs through swath grazing and use of new varieties.", Lacombe AAFC-ARD Field day, June 25, 2013. (Presentation)
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Research Publications:

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Research Publications:

2013

Séguin-Swartz, G.T., Beckie, H.J., Warwick, S.I., Roslinsky, V., Nettleton, J.A., Johnson, E.N., and Falk, K.C. (2013). "Pollen-mediated gene flow between glyphosate-resistant *Brassica napus* canola and *B. juncea* and *B. carinata* mustard) crops under large-scale field conditions in Saskatchewan.", *Canadian Journal of Plant Science*, 93(6), pp. 1083-1087. doi : 10.4141/cjps2013-129

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Johnson, E.N., Beckie, H.J., Hall, L.M., Schoenau, J.J., Willenborg, C.J., Sapsford, K.L., and Vandenberg, A. (2012). "Progress in Managing Herbicide Resistant Weeds in Pulse Crops.", Pulse Days 2012, Saskatoon, SK, Canada, January 10, 2012. (Presentation)

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Research Publications:

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Research Publications:

2013

Mason, P.G., Brauner, A.M., Miall, J.H., and Bennett, A.M.R. (2013). "Diadromus pulchellus in North America: field release against leek moth and new characters to distinguish it from *Diadromus subtilicornis*, a native diamondback moth parasitoid.", *Biocontrol Science and Technology*, 23(3), pp. 260-276. doi : 10.1080/09583157.2012.755613

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Research Publications:

2012

Toussaint, V., Benoît, D.-L., and Carisse, O. (2012). "Potential of weed species as a reservoir for *Xanthomonas campestris* pv. *vitiensis*, the causal agent of bacterial leaf spot of lettuce.", *Crop Protection*, 41(November), pp. 64-70. doi : 10.1016/j.cropro.2012.05.018

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Masson, E., Noisel, N., Benoît, D.-L., Macaire-Chabi, G., and Jean-Louis, M. (2011). "Projet herbe à poux 2007-2010. Réduire le pollen de l'herbe à poux : mission réaliste.", published by Agence de santé et des services sociaux de la Montérégie, Direction de santé publique, QC, Canada, 16 pages, ISBN 9782550621720. (Technology transfer)

Nadeau, M.-J., Masson, E., Noisel, N., Groulx, J., Potvin, P., Benoît, D.-L., and Simard, M.-J. (2011). "Projet Herbe à poux 2007-2010. Réduire le pollen de l'herbe à poux : mission réaliste. Faits Saillants.", published by Agence de santé et des services sociaux de la Montérégie, Direction de santé publique, QC, Canada, 4 pages, 11-244-01F. (Technology transfer)

Ball Coelho, B.R., Benoît, D.-L., Nurse, R.E., Callow, K., and Bernier, D. (2011). "Cover crops as an integrated approach to weed management in vegetable production in Canada.", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 21-24, 2011, pp. 63. (Poster)

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Benoît, D.-L. (2008). "Influence de la hauteur de coupe sur la repousse de l'herbe à poux (*Ambrosia artemisiifolia*) et la carotte (*Daucus carota* var. *sativa*).", Réunion annuelle conjointe SPPQ-SEQ : La phytoprotection, 100 ans de découvertes : un tremplin vers l'avenir!, Québec City, QC, Canada, November 20-21, 2008. (Poster)

Benoît, D.-L. (2008). "Effect of cutting height on common ragweed (*Ambrosia artemisiifolia* L.) and redroot pigweed (*Amaranthus retroflexus* L.) regrowth.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008. (Poster)

Simard, M.-J. and Benoît, D.-L. (2008). "Distribution of *Ambrosia artemisiifolia* (common ragweed), an allergenic weed, in an urban and rural setting of eastern Canada.", 5th International Weed Science Congress: weeds local problems, global challenge, Westin Bayshore Hotel, Vancouver, BC, Canada, June 23-27, 2008. (Poster)

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Simard, M.-J. and Benoît, D.-L. (2007). "Distribution of common ragweed (*Ambrosia artemisiifolia*) in southern Québec corn and soybean fields and field borders.", Canadian Weed Science Society 61st Annual Meeting, Fairmont Tremblant, Mont Tremblant, QC, Canada, November 27-29, 2007. (Poster)

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Research Publications:

2014

Qin, S.H., Stevenson, F.C., McKenzie, R.H., and Beres, B.L. (2014). "Seed Safety Limits for Cereals and Canola Using Seed-Placed ESN Urea Fertilizer.", *Agronomy Journal*, 106(2), pp. 369-378. doi : 10.2134/agronj2013.0357

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Beres, B.L., Cárcamo, H.A., Weaver, D.K., Dossall, L.M., Evenden, M.L., Hill, B.D., McKenzie, R.H., Yang, R.-C., and Spaner, D.M. (2012). "Integrating the building blocks of agronomy and biocontrol into an IPM strategy for wheat stem sawfly (*Cephus cinctus*).", Entomological Society of America (ESA) 60th Annual Meeting, Knoxville Convention Centre, Knoxville, TN, USA, November 11-14, 2012, D0471. (Poster)

2011

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Beres, B.L., Cárcamo, H.A., Dossdall, L.M., Evenden, M.L., Yang, R.-C., McKenzie, R.H., and Spaner, D.M. (2010). "Integrating the building blocks of agronomy into an IPM strategy for wheat stem sawfly.", 2010 ASA-CSSA-SSSA International Annual Meeting, Long Beach Convention Center, Long Beach, CA, USA, October 31-November 4, 2010. (Poster)

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Research Publications:

2014

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Research Publications:

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Adeleke, R.A., Cloete, E., Bertrand, A., and Khasa, D.P. (2008). "Nutrient absorption from iron ore by ectomycorrhizal seedlings.", 13th Congress of the African Association for Biological Nitrogen Fixation, Sol Azur Beach Hotel, Hammamet, Hammamet, Tunisia, December 15-18, 2008.

Brito, A.F., Tremblay, G.F., Benchaar, C., Bertrand, A., Castonguay, Y., Bélanger, G., Michaud, R., Lapierre, H., Ouellet, D.R., Petit, H.V., and Berthiaume, R.R. (2008). "Effects of cutting alfalfa at sundown or sunup on omasal flow of nutrients in lactating dairy cows.", ADSA-ASAS 2008 Joint Annual Meeting, Indiana Convention Center and RCA Dome, Indianapolis, IN, USA, July 7-11, 2008.

Bertrand, A. and Prévost, D. (2008). "Impact of elevated CO₂ and rhizobial inoculation on soybean: plant and nodule physiology.", 13th Congress of the African Association for Biological Nitrogen Fixation, Sol Azur Beach Hotel, Hammamet, Hammamet, Tunisia, December 15-18, 2008, pp. 21.

Bertrand, A., Castonguay, Y., Cloutier, J., Couture, L., Hsiang, T., Dionne, J., and Laberge, S. (2008). "Diversité génétique de la résistance aux moisissures nivéales du pâturin annuel.", Joint meeting QSPP QSE, Hôtel Château Laurier, Québec City, QC, Canada, November 20-21, 2008. (Presentation)

Tremblay, G.F., Bertrand, A., Castonguay, Y., Bélanger, G., Pelletier, S., and Michaud, R. (2008). "Sample preparation affects non structural carbohydrates in alfalfa.", XXI International Grassland Congress and VIII International Rangeland Congress: Multifunctional Grasslands in a Changing World, Hohhot, Inner Mongolia, China, June 29-July 5, 2008.

Nie, Z., Tremblay, G.F., Bélanger, G., Berthiaume, R.R., Castonguay, Y., Bertrand, A., Michaud, R., and Allard, G. (2008). "Neutral detergent soluble carbohydrates in alfalfa and timothy predicted by near infrared reflectance spectroscopy.", Plants and Soils: Montreal '08: Joint meeting of the CSHS, CSA and Northeastern Branch ASA-CSSA-SSSA, McGill University, Montréal, QC, Canada, July 13-16, 2008.

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Bélanger, G., Bertrand, A., Tremblay, G.F., Pelletier, S., and Castonguay, Y. (2007). "Nutritive value of AM and PM-harvested timothy grown under contrasted temperatures.", 2007 ASA-CSSA-SSSA International Annual Meetings, New Orleans, LA, USA, November 4-8, 2007.

Berthiaume, R.R., Benchaar, C., Chaves, A.V., Tremblay, G.F., Castonguay, Y., Bertrand, A., Bélanger, G., Michaud, R., Lafrenière, C., and Brito, A.F. (2007). "Increasing non structural carbohydrates in alfalfa improves *in vitro* microbial N synthesis.", ADSA-PSA-AMPA-ASAS 2007 Joint Annual Meeting, San Antonio, TX, USA, July 7-12, 2007. (Abstract)

Bélanger, G., Castonguay, Y., Tremblay, G.F., Bertrand, A., Michaud, R., and Berthiaume, R.R. (2007). "Variability for non-structural carbohydrates in alfalfa.", in Helgadóttir, A., and Pötsch, E.M. (eds.) Quality legume-based forage systems for contrasting environments. Proceedings of the final COST 852 Workshop, Gupenstein, Austria, August 30-September 3, 2006, IGER, Aberystwyth, UK, pp. 169-172.

Bertrand, A., Castonguay, Y., Laberge, S., and Michaud, R. (2007). "Evolution of the ascorbate antioxidant pathway in overwintering populations of alfalfa of contrasting freezing tolerance.", 8th International Plant Cold Hardiness Seminar (8IPCHS), University of Saskatchewan, Saskatoon, SK, Canada, August 3-9, 2007.

Michaud, R., Castonguay, Y., Bertrand, A., Bélanger, G., Tremblay, G.F., and Berthiaume, R.R. (2007). "Increasing nonstructural carbohydrates in alfalfa through breeding and management.", 2007 Joint Conference of the American Forage and Grassland Council and the Northeastern Branch of ASA-CSSA-SSSA, Penn Stater Conference Center, State College, PA, USA, June 24-26, 2007. (Presentation)

Brito, A.F., Tremblay, G.F., Ouellet, D.R., Bertrand, A., Castonguay, Y., Bélanger, G., Michaud, R., Lapierre, H., and Berthiaume, R.R. (2007). "Alfalfa harvested in the afternoon increases performance of lactating dairy cows.", ADSA-PSA-AMPA-ASAS 2007 Joint Annual Meeting, San Antonio, TX, USA, July 7-12, 2007.

Michaud, R., Castonguay, Y., Bertrand, A., Bélanger, G., Tremblay, G.F., and Berthiaume, R.R. (2007). "Improving herbage nonstructural carbohydrates in alfalfa.", EUCARPIA 27th Symposium on Improvement of Fodder Crops and Amenity Grasses, Copenhagen, Denmark, August 19-23, 2007, pp. 70. (Abstract)

Brito, A.F., Tremblay, G.F., Ouellet, D.R., Bertrand, A., Castonguay, Y., Bélanger, G., Michaud, R., Lapierre, H., and Berthiaume, R.R. (2007). "Alfalfa harvested in the afternoon increases performance of lactating dairy cows.", *Journal of Dairy Science (JDS)*, 90(Suppl. 1), pp. 432. (Abstract)

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Research Publications:

2014

Piorkowski, G.S., Jamieson, A.R., Truelstrup-Hansen, L., Bezanson, G.S., and Yost, C.K. (2014). "Characterizing spatial structure of sediment *E. coli* populations to inform sampling design.", *Environmental Monitoring and Assessment*, 186(1), pp. 277-291. doi : 10.1007/s10661-013-3373-2

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Piorkowski, G.S., Jamieson, A.R., Bezanson, G.S., Truelstrup-Hansen, L., and Yost, C.K. (2013). "Evaluation of statistical models for predicting *Escherichia coli* particle attachment in fluvial systems.", *Water Research*, 47(17), pp. 6701-6711. doi : 10.1016/j.watres.2013.09.003

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LeBlanc, D.I., Vigneault, C., Boutin, J., Toussaint, V., Charlebois, D., Forney, C.F., Bourgeois, G., Clément, A., and Bezanson, G.S. (2012). "Design and performance of a controlled environment mini-chamber for measuring produce quality deterioration.", *Journal of Agricultural Science and Technology B*, 2, pp. 391-399.

Bezanson, G.S., Delaquis, P.J., Bach, S.J., McKellar, R., Topp, E., Gill, A.O., Blais, B., and Gilmour, M. (2012). "Comparative Examination of *Escherichia coli* O157:H7 Survival on Romaine Lettuce and in Soil at Two Independent Experimental Sites.", *Journal of Food Protection*, 75(3), pp. 480-487. doi : 10.4315/0362-028X.JFP-11-306

2010

Wood, J.D., Bezanson, G.S., Gordon, R.J., and Jamieson, R.C. (2010). "Population dynamics of *Escherichia coli* inoculated by irrigation into the phyllosphere of spinach grown under commercial production conditions.", *International Journal of Food Microbiology*, 143(3), pp. 198-204. doi : 10.1016/j.ijfoodmicro.2010.08.022

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Bezanson, G.S., MacInnis, R., Potter, G., and Hughes, T. (2008). "Presence and potential for horizontal transfer of antibiotic resistance in 2 oxidase-positive bacteria populating raw salad vegetables.", *International Journal of Food Microbiology*, 127(1-2), pp. 37-42. doi : 10.1016/j.ijfoodmicro.2008.06.008

Other Science Related Publications:

2013

Delaquis, P.J., Bach, S.J., McKellar, R., Bezanson, G.S., and Topp, E. (2013). "Survival of six Shiga-toxigenic *Escherichia coli* serotypes in field lettuce.", 58th Annual Meeting of the International Association of Food Protection (IAFP 2013), Charlotte Convention Center, Charlotte, NC, USA, July 28-31, 2013. (Poster)

2012

Delaquis, P.J., Bezanson, G.S., McKellar, R., and Gajadhar, A. (2012). "Fate of protozoan oocysts (*Eimeria papillata*) on lettuce in field plots.", 57th Annual Meeting of the International Association of Food Protection (IAFP 2012), Providence, Rhode Island, USA, July 22-25, 2012. (Poster)

Gillis, J., Bezanson, G.S., and Moreau, D.L. (2012). "Association of *E. coli* with various insect species emerging from the Thomas Brook watershed.", AAFC-WEBS Thomas Brook Technical Workshop, Kentville, NS, Canada, October 17, 2012. (Presentation)

Forney, C.F., Bezanson, G.S., Fan, L., Ellis, T.C., and LeBlanc, D.I. (2012). "Development of the Low Temperature Thermal Treatment (LT3) Process to Sanitize Fresh-cut Cantaloupe.", United Fresh 2012, Dallas Convention Center, Dallas, TX, USA, May 1-23, 2012. (Poster)

Orlowska, M., Koutchma, T., Defelice, C., Kostrzynska, M., Bezanson, G.S., and Tang, J. (2012). "Application of the prototype Taylor-Couette UV reactor for the processing of opaque juices.", Canadian Institute of Food Science and Technology 50th National Conference (CIFST), Niagara Falls, ON, Canada, May 27 – 29, 2012, (Poster).

2011

Fisher, M., Kristie, D.N., Hodges, D.M., and Bezanson, G.S. (2011). "Hydrogen peroxide treatment of fresh-cut spinach: potential for enhancement of shelf life and microbiological safety.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011.

Bezanson, G.S., Ells, T.C., and Prange, R.K. (2011). "Effect of composting on microbial contamination and quality of fresh fruits and vegetables.", International Symposium on Organic Matter Management and Compost Use in Horticulture, Adelaide, South Australia, Australia, April 3-7, 2011.

Fellahi, S., Bezanson, G.S., Brassard, J., Delaquis, P.J., Houde, A., and Mattson, K. (2011). "Long-term stability of norovirus on farm and agriculturally-relevant environments.", 56th Annual Meeting of the International Association of Food Protection (IAFP 2011), Milwaukee, WI, USA, July 30-August 3, 2011, (Poster).

Piorkowski, G.S., Jamieson, A.R., Bezanson, G.S., Truelstrup-Hansen, L., and Yost, C.K. (2011). "Spatial variability of *Escherichia coli* strains within stream sediments of an agricultural watershed.", Canadian Society of Microbiologists (CSM) 61st Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Memorial University of Newfoundland, St. John's, NL, Canada, June 20-23, 2011, (Poster).

Delaquis, P.J., Bach, S., Bezanson, G.S., Kostrzynska, M., and Jones, S. (2011). "*Escherichia coli* population dynamics on Romaine lettuce contaminated with poultry manure.", 56th Annual Meeting of the International Association of Food Protection (IAFP 2011), Milwaukee, WI, USA, July 30-August 3, 2011, (Poster).

2009

Bezanson, G.S. (2009). "Methodology workshop: Recovery, enumeration and confirmation of generic *Escherichia coli* from agricultural soil, water and manures samples. SAGES project # 1465 training lecture, September 2009, Kentville, NS." (Technology transfer)

Bezanson, G.S., MacInnis, R., and Jamieson, R.C. (2009). "Bacterial Source Tracking.", WEBS-Thomas Brook/Cornwallis Headwaters Society Update Workshop, Kentville NS, Canada, March 2009. (Presentation)

Bezanson, G.S., Wood, J.D., and Gordon, R.J. (2009). "Natural Disinfection using UV Light.", Nova Scotia Federation of Agriculture/Horticulture Nova Scotia Joint Workshop on Agriculture Water, Greenwich, NS, Canada, April 2009. (Presentation)

Delaquis, P.J., Bach, S.J., LeBlanc, D.I., Brassard, J., Houde, A., Villeneuve, S., Bezanson, G.S., Diarra, M.S., Topp, E., Blais, B., Gajadhar, A., Bisailon, J.-R., Fazil, A.M., Gilmour, M., Mattison, K., and Bidawid, S. (2009). "A systems-based approach for the assessment of microbiological threats to the food supply.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Presentation)

2008

Wood, J.D., Bezanson, G.S., Gordon, R.J., and Potter, G. (2008). "Natural disinfection of nalidixic acid resistant *Escherichia coli* in a spinach production system introduced by irrigation water.", 2008 ASABE Annual International Meeting, Rhode Island Convention Center, Providence, RI, USA, June 29-July 2, 2008, Vol. 5, pp. 2987-3002, Paper No. 084026.

Rodd, A.V., Thomas, B., Van Roestel, J., Gordon, R.J., Campbell, A.J., Duynisveld, J.L., Bezanson, G.S., Fillmore, S.A.E., Walker, B.A., Fuller, K.D., Hebb, D., Butrón, D., Madani, A., Lalande, R., and Bittman, S. (2008). "Selected low disturbance liquid manure application systems: results, implications and future considerations.", 4th Canadian Society of Agronomy (CSA) Atlantic Workshop, Charlottetown, PEI, Canada, January 15-16, 2008. (Presentation)

Rodd, A.V., Thomas, B., Van Roestel, J., Gordon, R.J., Hoeg, R., Campbell, A.J., Duynisveld, J.L., Bezanson, G.S., Grimmett, M.G., Fillmore, S.A.E., Walker, B.A., Fuller, K.D., Hebb, D., Madani, A., Butrón, D., Bittman, S., and Lalande, R. (2008). "Selected low disturbance liquid manure application systems: results, implications and future considerations.", *Canadian Journal of Plant Science*, 88(4), pp. 726. (Abstract)

Forney, C.F., Fan, L., and Bezanson, G.S. (2008). Multistate Research Project S-294 Postharvest Quality and Safety in Fresh-cut Vegetables and Fruits. (Report)

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Research Publications:

2011

Pereira, G.R., Lorenzo, P.L., Carneiro, G.F., Ball, B.A., Gonçalves, P.B.D., Pegoraro, L.M.C., Bilodeau-Goeseels, S., Kastelic, J.P., Casey, P.J., and Liu, I.K.M. (2011). "The effect of growth hormone (GH) and insulin-like growth factor-I (IGF-I) on *in vitro* maturation of equine oocytes.", *Zygote*, 20(4), pp. 353-360. doi : 10.1017/S0967199411000335

Bilodeau-Goeseels, S. (2011). "Bovine Oocyte Meiotic Inhibition Before *In Vitro* Maturation and Its Value to *In Vitro* Embryo Production: Does it Improve Developmental Competence?.", *Reproduction in Domestic Animals*, 47(4), pp. 687-693. doi : 10.1111/j.1439-0531.2011.01924.x

Bilodeau-Goeseels, S. (2011). "Cows are not Mice: The Role of Cyclic AMP, Phosphodiesterases, and Adenosine Monophosphate-Activated Protein Kinase in the Maintenance of Meiotic Arrest in Bovine Oocytes.", *Molecular Reproduction and Development*, 78(10-11), pp. 734-743. doi : 10.1002/mrd.21337

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Bilodeau-Goeseels, S., Panich, P.L., and Kastelic, J.P. (2010). "Activation of AMP-activated protein kinase may not be involved in AICAR and metformin-mediated meiotic arrest in bovine denuded and cumulus-enclosed oocytes *in vitro*.", *Zygote*, 19(2), pp. 97-106. doi : 10.1017/S0967199410000195

2008

Bilodeau-Goeseels, S. (2008). "The regulation of meiotic maturation in bovine oocytes. Review.", *Canadian Journal of Animal Science*, 88(3), pp. 343-349. doi : 10.4141/CJAS08002

2007

Sharma, R., Alexander, T.W., McAllister, T.A., and Bilodeau-Goeseels, S. (2007). "Fate of Transgenic *5-Enolpyruvyl-Shikimate-3-Phosphate Synthase (Cp4 Epsps)* Dna from Roundup Ready® Canola in Intestinal Epithelial Caco-2 Cells.", *Research Journal of Animal Sciences*, 1(1), pp. 36-43.

Bilodeau-Goeseels, S. (2007). "Effects of manipulating the nitric oxide/cyclic GMP pathway on bovine oocyte meiotic resumption *in vitro*.", *Theriogenology*, 68(5), pp. 693-701. doi : 10.1016/j.theriogenology.2007.05.063

Bilodeau-Goeseels, S., Sasseville, M., Guillemette, C., and Richard, F.J. (2007). "Effects of adenosine monophosphate-activated kinase activators on bovine oocyte nuclear maturation *in vitro*.", *Molecular Reproduction and Development*, 74(8), pp. 1021-1034. doi : 10.1002/mrd.20574

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Bilodeau-Goeseels, S. and Magyara, N. (2012). "The Control of Meiotic Arrest and Resumption in Mammalian Oocytes.", in Swan, A. (ed.) *Meiosis Molecular Mechanisms and Cytogenetic Diversity*, InTech, Open Access Publisher, Chapter 8, pp. 151-172.

2010

Bilodeau-Goeseels, S. (2010). "Control of bovine oocyte meiosis *in vitro*: effects of AMPK modulators.", International Symposium on Mechanisms of Egg Maturation and Fertilization, University of Washington, San Juan Island, WA, USA, September 10-12, 2010.

2009

Bilodeau-Goeseels, S. and Panich, P.L. (2009). "AMP-activated protein kinase activation may not be involved in AICAR and metformin-mediated meiotic arrest in bovine oocytes.", 42nd Annual Meeting of the Society for Study of Reproduction, Pittsburgh, PA, USA, July 18-22, 2009. (Poster)

Bilodeau-Goeseels, S. and Panich, P.L. (2009). "AMP-Activated Protein Kinase Activation May Not Be Involved in AICAR and Metformin-Mediated Meiotic Arrest in Bovine Oocytes. Abstract #477.", *Biology of Reproduction*, 81(2), pp. 477. (Abstract)

2008

Kastelic, J.P., Wilde, R.E., Bielli, A., Genovese, P., Bilodeau-Goeseels, S., and Thundathil, J.C. (2008). "Hyperthermia is more important than hypoxia as a cause of disrupted spermatogenesis. P421.", *Reproduction in Domestic Animals*, 43(Suppl. 3), pp. 166. (Abstract)

Bilodeau-Goeseels, S. (2008). "Effects of modulating the NO/cGMP pathway on cGMP levels in bovine cumulus-oocyte complexes.", *Canadian Journal of Animal Science*, 88(1), pp. 136. (Abstract)

2007

Pereira, G.R., Lorenzo, P.L., Carneiro, G.F., Esteller-Vico, A., Bilodeau-Goeseels, S., Kastelic, J.P., and Liu, I.K.M. (2007). "The pathway of equine growth hormone on equine oocyte maturation and receptor localization by immunochemistry and real-time PCR.", *Theriogenology*, 68(3), pp. 503. (Abstract)

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Research Publications:

2013

Bing, D.-J., Beauchesne, D., McLaren, D.L., Vera, C.L., and Gehl, D.T. (2013). "AAC Peace River field pea.", *Canadian Journal of Plant Science*, 93(2), pp. 337-339. doi : 10.4141/cjps2012-173

Chang, K.F., Hwang, S.F., Ahmed, H.U., Strelkov, S.E., Conner, R.L., Gossen, B.D., Bing, D.-J., and Turnbull, G.D. (2013). "Yield loss and management of downy mildew on field pea in Alberta, Canada.", *Crop Protection*, 46, pp. 23-28. doi : 10.1016/j.cropro.2012.12.001

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Bing, D.-J., Beauchesne, D., Sloan, A., McLaren, D.L., and Vera, C.L. (2011). "Earlstar field pea.", *Canadian Journal of Plant Science*, 91(6), pp. 1115-1116. doi : 10.4141/CJPS2011-076

Olson, M., Bandara, M.S., Bing, D.-J., Kruger, A., Henriquez, B., and Bremer, E. (2011). "Evaluation of mungbean accessions for the southern Canadian prairies.", *Canadian Journal of Plant Science*, 91(1), pp. 137-141. doi : 10.4141/CJPS10062

Chang, K.F., Hwang, S.F., Gossen, B.D., Strelkov, S.E., Turnbull, G.D., and Bing, D.-J. (2011). "Effect of seeding practices, temperature and seed treatments on fusarium seedling blight of narrow-leaved lupin.", *Canadian Journal of Plant Science*, 91(5), pp. 859-872. doi : 10.4141/cjps2010-039

Bing, D.-J., Gan, Y.T., and Warkentin, T.D. (2011). "Yields in mixtures of resistant and susceptible field pea cultivars infested with powdery mildew defining thresholds for a possible strategy for preserving resistance.", *Canadian Journal of Plant Science*, 91(5), pp. 873-880. doi : 10.4141/CJPS2010-011

2010

Gan, Y.T., Warkentin, T.D., Bing, D.-J., Stevenson, F.C., and McDonald, C.L. (2010). "Chickpea water use efficiency in relation to cropping system, cultivar, soil nitrogen and Rhizobial inoculation in semiarid environments.", *Agricultural Water Management*, 97(9), pp. 1375-1381. doi : 10.1016/j.agwat.2010.04.003

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Bing, D.-J., Beauchesne, D., Sloan, A., Gan, Y.T., Vera, C.L., McLaren, D.L., and Chang, K.F. (2009). "Hugo field pea.", *Canadian Journal of Plant Science*, 89(1), pp. 73-75. doi : 10.4141/CJPS08111

Warkentin, T.D., Klassen, E., Bing, D.-J., Lopetinsky, K., Kostiuik, J., Barlow, B., Ife, S., Tar'an, B., and Vandenberg, A. (2009). "CDC Tucker and CDC Leroy forage pea cultivars.", *Canadian Journal of Plant Science*, 89(4), pp. 661-663. doi : 10.4141/CJPS09009

Bing, D.-J., Beauchesne, D., Sloan, A., Gan, Y.T., Vera, C.L., McLaren, D.L., and Chang, K.F. (2009). "Argus field pea.", *Canadian Journal of Plant Science*, 89(6), pp. 1107-1108. doi : 10.4141/CJPS09082

Bing, D.-J., Beauchesne, D., Sloan, A., Gan, Y.T., Vera, C.L., McLaren, D.L., and Chang, K.F. (2009). "Mendel field pea.", *Canadian Journal of Plant Science*, 89(1), pp. 77-79. doi : 10.4141/CJPS08110

2007

Bing, D.-J., Turkington, T.K., Clayton, G.W., Orr, D.D., Sloan, A.G., Conner, R.L., Warkentin, T.D., Xue, A.G., Gan, Y.T., Vera, C.L., and Gehl, D.T. (2007). "Registration of 'Canstar' Field Pea.", *Crop Science*, 47, pp. 439-440. doi : 10.2135/cropsci2006.05.0289 (Variety registration)

Ahmed, H.U., Chang, K.F., Hwang, S.F., Strelkov, S.E., Bing, D.-J., and Turnbull, G.D. (2007). "Pathogenic diversity of *Didymella rabiei* isolates from southern Alberta, Canada.", *Journal of Plant Diseases and Protection*, 114(5), pp. 189-195.

Gan, Y.T., Wang, J., Bing, D.-J., Miller, P.R., and McDonald, C.L. (2007). "Water use of pulse crops at various plant densities under fallow and stubble conditions in a semiarid environment.", *Canadian Journal of Plant Science*, 87(4), pp. 719-722. doi : 10.4141/P06-117

Conner, R.L., Hwang, S.F., Woods, S.M., Chang, K.F., Bing, D.-J., Dongfang, Y., Su, H., McAndrew, D.W., and Yager, L.M. (2007). "Influence of agronomic traits on the expression of tissuespecific resistance to mycosphaerella blight in field pea.", *Canadian Journal of Plant Science*, 87(1), pp. 157-165. doi : 10.4141/P05-213

Other Science Related Publications:

2012

Chang, K.F., Liu, J., Cao, T., Yang, Y., Fu, H., Turnbull, G.D., Hwang, S.F., Laflamme, P., Bing, D.-J., and Strelkov, S.E. (2012). "Occurrence of downy mildew on field pea in Central Alberta in 2009, 2010 and 2011.", *Canadian Plant Disease Survey*, 92, pp. 143-145.

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Chang, K.F., Hwang, S.F., Strelkov, S.E., Gossen, B.D., Turnbull, G.D., and Bing, D.-J. (2011). "Effect of downy mildew on growth and yield loss in field pea.", *Canadian Journal of Plant Pathology*, 33, pp. 258. (Abstract)

Chang, K.F., Hwang, S.F., Strelkov, S.E., Gossen, B.D., Turnbull, G.D., and Bing, D.-J. (2011). "Effect of seeding depth, seeding date and seed treatment on downy mildew of field pea in Alberta.", *Canadian Journal of Plant Science*, 91, pp. 389. (Abstract)

2010

Chang, K.F., Hwang, S.F., Strelkov, S.E., Gossen, B.D., Turnbull, G.D., and Bing, D.-J. (2010). "Effect of seeding depth, seeding date and seed treatment on downy mildew of field pea in Alberta.", 8th Canadian Pulse Research Workshop, Calgary, AB, Canada, November 3-5, 2010, Published in: *Can J. Plant Sci.*(2011), 91(2), pp. 389, P-20.

Chang, K.F., Hwang, S.F., Strelkov, S.E., Gossen, B.D., Turnbull, G.D., and Bing, D.-J. (2010). "Effect of downy mildew on growth and yield of field pea.", 8th Canadian Pulse Research Workshop, Calgary, AB, Canada, November 3-5, 2010, pp. 12. (Poster)

Meadus, W.J., Chau, W., Aslam, M., and Bing, D.-J. (2010). "Identifying cultivated pea varieties using a rapid DNA test for the retro-transposon genes OGRE and Cyclops.", 5th International Food Legumes Research Conference (IFLRC V) and 7th European Conference on Grain Legumes (AEP VII), Antalya, Turkey, April 26-30, 2010.

Bing, D.-J. and Liu, Q. (2010). "Investigation of relationships of yield, seed size, seed protein and starch content and development of varieties with improved protein content of field pea (*Pisum sativum* L.).", 8th Canadian Pulse Research Workshop, Calgary, AB, Canada, November 3-5, 2010, Published in: *Can. J. Plant Sci.*, 91, pp. 381.

2009

Feng, J., Hwang, S.F., Conner, R.L., Chang, K.F., Gossen, B.D., McLaren, D.L., and Bing, D.-J. (2009). "Identification of Microsatellite Marker (S) Linked to Fusarium Root Rot Resistance in Pea.", Canadian Phytopathological Society (CPS) 80th Annual Meeting, Delta Winnipeg Hotel, Winnipeg, MB, Canada, June 22-25, 2009, Published in: *Can. J. Plant Pathol.* (2009), 31 (4), pp. 483.

Chang, K.F., Hwang, S.F., Turnbull, G.D., Liu, J., Strelkov, S.E., and Bing, D.-J. (2009). "Occurrence of Downy Mildew on Field Pea in Central Alberta in 2008.", *Canadian Plant Disease Survey*, 89, pp. 127-128.

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Bishop, Gary A., M.Sc. A., P. Agr., P. Eng.

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Research Publications:

2011

Debnath, S.C., Bishop, G.A., and Sion, M. (2011). "Lingonberry germplasm characterization for berry characters, anthocyanin content and antioxidant activity.", *Acta Horticulturae (ISHS)*, 918, pp. 647-654.

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Bissett, John D., Ph.D.

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Research Publications:

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Research Publications:

2014

Dudemaine, P.-L., Lessard, M., Fecteau, G., and Bissonnette, N. (2014). "Increased blood-circulating interferon gamma, interleukin 17, and osteopontin levels in bovine paratuberculosis.", *Journal of Dairy Science (JDS)*. doi : 10.3168/jds.2013-7059

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Ortega-Delgado, G., Ouattara, B., Bissonnette, N., and Girard, C.L. (2013). "Comprendre le rôle des vitamines B9 et B12 dans le métabolisme des vaches laitières.", Journée Scientifique Annuelle, Faculté de Médecine, Université de Sherbrooke, Sherbrooke, Canada, September 13, 2013.

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Bissonnette, N. and Thibault, C. (2012). "Impact of cow genetics regarding the osteopontin gene for the immune response to MAP infection.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012, Published in: *J. Anim. Sci.*, 90(E-Suppl. 3), pp. 264, #T35. (Poster)

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Research Publications:

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Bittman, S., Massé, D.I., and Pattey, E. (2013). "Effect of Agriculture on Air Quality in Canada.", in Taylor, E and McMillan, A. (eds.) Air quality management. Canadian perspectives on a global issue., Springer, Chapter 11. Part III Management of Emission., pp. 237-261.

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Other Science Related Publications:

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Chai, L.L., Kröbel, R., Janzen, H.H., Beauchemin, K.A., McGinn, S.M., Bittman, S., Atia, A., and Edeogu, I. (2013). "A mass balance model based on total ammoniacal nitrogen for estimating ammonia volatilization from beef cattle manure management in Alberta in Canada.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013, paper #:1596572.

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Nyiraneza, J., Zebarth, B.J., Ziadi, N., Sharifi, M., Burton, D.L., Drury, C.F., Bittman, S., and Grant, C.A. (2012). "The ability of soil chemical and biological N availability indices to predict soil nitrogen supply of contrasting soils under corn.", Canadian Society of Soil Science (CSSS) and Association Québécoise de Spécialistes en Sciences du Sol (AQSSS) Joint Meeting, Manoir St-Castin, Lac Beauport, QC, Canada, June 3-8, 2012. (Poster)

2011

Diarra, M.S., Vela, J., Hilderbrand, K., Metcalfe, A., Rempel, H., Bittman, S., and Topp, E. (2011). "Antibiotic resistance of *Staphylococcus xyloso* isolated from broiler barn bioaerosol.", 51st Annual Conference of the Pacific Northwest International Section (PNWIS) of the Air & Waste Management Association, Harrison, BC, Canada, November 8-11, 2011, Oral presentation.

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2009

Lupwayi, N.Z., Soon, Y.K., Clayton, G.W., Bittman, S., Malhi, S.S., and Grant, C.A. (2009). "Soil microbial response to controlled-release urea under zero tillage and conventional tillage in western Canada.", 16th Annual International Plant Nutrition Colloquium (IPNC): Plant Nutrition for Sustainable Development and Global Health, Sacramento Convention Center, Sacramento, CA, USA, August 26-30, 2009. (Poster)

Herath, A., Zhang, T.Q., Hamel, C., Bittman, S., Forge, T.A., Tan, C.S., Goss, M.J., and Welacky, T.W. (2009). "Phosphorus fraction distributions in soils under various management practices in Canada.", Joint Annual Meeting of the CSA-CSSS-CSAFM: Sciences for Sustainability: Soils, Agronomy, and Atmosphere, University of Guelph, Guelph, ON, Canada, August 5-7, 2009. (Abstract)

Bittman, S., Liu, A., Bhandral, R., Hunt, D.E., Kowalenko, C.G., Buckley, K.E., and Chantigny, M.H. (2009). "Sustainable use of dairy slurry on crops: Dual manure stream concept.", Farming Systems Design 2009: Methodologies for Integrated Analysis of Farm Production Systems, Portola Hotel, Monterey, CA, USA, August 23-26, 2009, pp. 37-38.

Rodd, A.V., Thomas, B., Van Roestel, J., Bittman, S., Gordon, R.J., Butrón, D., Fillmore, S.A.E., Fuller, K.D., Hebb, D., Grimmett, M.G., and Campbell, A.J. (2008). "Below crop canopy manure injection: Results of agronomic trials.", published in Greencover Canada Program, Agriculture and Agri-Food Canada (AAFC)/Agriculture et Agroalimentaire Canada (AAC). (Factsheet)

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Liu, A.K., Bittman, S., Forge, T.A., Hunt, D.E., Kowalenko, C.G., and Grant, C.A. (2008). "Effect of manure, fertilizer and AMF on Cd concentration in sunflower: short term and long term effects.", Metals in the Human Environment Strategic Network (MITHE-SN) Annual Symposium 2008, Château Cartier Resort, Aylmer, QC, Canada, January 22-23, 2008.

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Research Publications:

2014

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Research Publications:

2013

Lupwayi, N.Z. and Blackshaw, R.E. (2013). "Soil microbial properties in Bt (*Bacillus thuringiensis*) corn cropping systems.", *Applied Soil Ecology*, 63, pp. 127-133. doi : 10.1016/j.apsoil.2012.09.005

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Research Publications:

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Research Publications:

2013

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Other Science Related Publications:

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Cossentine, J.E., Blatt, S.E., Mason, P.G., Franklin, J.L., Brauner, A.M., Appleby, M.E., Grigg-McGuffin, K., Fraser, H., and Garipey, T.D. (2013). "A difficult directed biological control decision.", Joint Annual Entomological Society of Ontario and Canada meeting, Guelph, ON, Canada, October, 2013. (Poster)

2012

Burgart, C.S.F., Blatt, S.E., and Hillier, N.K. (2012). "Apple cultivar preference in the European Apple Sawfly and Apple Maggot Fly.", 72nd Annual Meeting of the Acadian Entomological Society: Bugs, Forests, and Food, Lord Beaverbrook Hotel, Fredericton, NB, Canada, August 15-17, 2012, pp. 13. (Poster)

Blewett, Heather, Ph.D.

Research Scientist

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Research Publications:

2013

Stringer, D.M., Taylor, C.G., Appahd, P., Blewett, H.J., and Zahradka, P. (2013). "Consumption of buckwheat modulates the post-prandial response of selected gastrointestinal satiety hormones in individuals with type 2 diabetes mellitus.", *Metabolism*, 62(7), pp. 1021-1031. doi : 10.1016/j.metabol.2013.01.021

Zahradka, P., Wright, B., Weighell, W., Blewett, H.J., Baldwin, A., O, K., Guzman, R.P., and Taylor, C.G. (2013). "Daily non-soy legume consumption reverses vascular impairment due to peripheral artery disease.", *Atherosclerosis*, 230(2), pp. 310-314. doi : 10.1016/j.atherosclerosis.2013.07.048

2012

Baranowski, M., Enns, J.E., Blewett, H.J., Yakandawala, U., and Zahradka, P. (2012). "Dietary flaxseed oil reduces adipocyte size, adipose monocyte chemoattractant protein-1 levels and T-cell infiltration in obese, insulin-resistant rats.", *Cytokine*, 59(2), pp. 382-391. doi : 10.1016/j.cyto.2012.04.004

Blewett, H.J. and Taylor, C.G. (2012). "Dietary Zinc Deficiency in Rodents: Effects on T-Cell Development, Maturation and Phenotypes.", *Nutrients*, 4(6), pp. 449-466. doi : 10.3390/nu4060449

2009

Field, C.J., Blewett, H.J., (Blewett H.J., nee Hosea), Proctor, S.D., and Vine, D.F. (2009). "Human health benefits of vaccenic acid.", *Applied Physiology, Nutrition, and Metabolism*, 34(5), pp. 979-991. doi : 10.1139/H09-079

Blewett, H.J., Gerdung, C.A., Ruth, M.R., Proctor, S.D., and Field, C.J. (2009). "Vaccenic acid favorably alters immune function in obese JCR:LA-cp rats.", *British Journal of Nutrition*, 102(4), pp. 526-536. doi : 10.1017/S0007114509231722

Merrells, K.J., Blewett, H.J., Jamieson, J.A., Taylor, C.G., and Suh, M. (2009). "Relationship between abnormal sperm morphology induced by dietary zinc deficiency and lipid composition in testis of growing rats.", *British Journal of Nutrition*, 102(2), pp. 226-232. doi : 10.1017/S0007114508159037

2008

Blewett, H.J. (2008). "Exploring the mechanisms behind S-adenosylmethionine (SAME) in the treatment of osteoarthritis.", *Critical Reviews in Food Science and Nutrition*, 48(5), pp. 458-463. doi : 10.1080/10408390701429526

Blewett, H.J., (Blewett H.J., nee Hosea), Rector, E.S., and Taylor, C.G. (2008). "Altered *ex vivo* cytokine production in zinc-deficient, pair-fed and marginally zinc-deficient growing rats is independent of serum corticosterone concentrations.", *British Journal of Nutrition*, 100(4), pp. 820-828. doi : 10.1017/S0007114508942148

2007

Blewett, H.J., (Blewett H.J., nee Hosea), Rector, E.S., and Taylor, C.G. (2007). "Dietary zinc deficiency lowers the proportions of splenic CD90* (Thy-1*) B-cells and late thymic emigrant T-cells in growing rats.", *British Journal of Nutrition*, 98(6), pp. 1108-1111. doi : 10.1017/S000711450777188X

Other Science Related Publications:

2011

Blewett, H.J., Taylor, C.G., and Zahradka, P. (2011). "Daily intake of pulses lowered serum short-chain acylcarnitine levels in subjects with Peripheral Arterial Disease.", *Experimental Biology 2011*, Washington, DC, USA, April 9-13, 2011, Abstract #435.4. (Presentation)

Ames, N.P., Blewett, H.J., Storsley, J., Zahradka, P., and Taylor, C.G. (2011). "Utilization of high fibre barley fractions in tortillas to reduce glycemic fractions in tortillas to reduce glycemic response in humans.", *Cereal Foods World*, 56(4, Suppl.), pp. A28. (Abstract)

2010

Ames, N.P., Blewett, H.J., Zahradka, P., and Taylor, C.G. (2010). "Investigating the role of high fibre barley ingredients on glycemic response and lipogenesis.", 49th Meeting of the Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference: "Safe and Healthy Food: Harvesting the Science", Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010. (Presentation)

Ames, N.P., Blewett, H.J., Harding, S., Zahradka, P., and Taylor, C.G. (2010). "Investigating the role of high fibre barley ingredients on glycemic response.", 2010 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010, # 05-5. (Abstract)

2009

Blewett, H.J. (2009). "Does the conjugated linoleic acid (CLA) content of the diet alter fetal development (length of gestation, birth weight and length)?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

Blewett, H.J. (2009). "Does supplemental conjugated linoleic acid (CLA) or high dietary CLA reduce the risk of pregnancy-induced hypertension (PIH)?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

Blewett, H.J. (2009). "Does a high dietary conjugated linoleic acid (CLA) intake reduce blood glucose levels in pregnant women with gestational diabetes?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

Blewett, H.J. (2009). "Does supplemental conjugated linoleic acid (CLA) or high dietary CLA intake reduce the risk of developing breast cancer, slow the progression or aid in treatment of existing breast cancer?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

Blewett, H.J. (2009). "Does supplemental conjugated linoleic acid (CLA) or high dietary CLA reduce body fat/body weight in people who are overweight/obese?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

Blewett, H.J. (2009). "Does the conjugated linoleic acid (CLA) content of a breastfeeding woman's diet affect the fat composition of her breastmilk?", published in Practice-based Evidence in Nutrition (PEN), Practice question, Dietitians of Canada/Diétistes du Canada, Toronto, ON.

2008

Blewett, H.J. and Field, C.J. (2008). "Dietary supplementation with glutamate in the weaning diet of piglets results in higher jejunal mucosal IFN γ mRNA levels in response to enterotoxigenic Escherichia Coli.", WCHRI's 1st Annual Research Day, University of Alberta, Edmonton, AB, Canada, November 30, 2008, pp. 52. (Poster)

Blewett, H.J., Gerdung, C.A., Ruth, M.R., Proctor, S.D., and Field, C.J. (2008). "Vaccenic acid alters immune function in JCR:LA-cp rats.", Alberta Diabetes Institute (ADI) Research Day, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada, September 26, 2008. (Poster)

Blewett, H.J., (Blewett H.J., nee Hosea), Goruk, S.D., Eklund, M., Mosenthin, R., Christopherson, R.J., and Field, C.J. (2008). "Piglets fed a weaning diet containing small amounts of arachidonic acid and docosahexaenoic acids have a lower proliferative response to dietary protein ex vivo compared to controls.", ImmuNet Retreat 2008, University of Alberta, Edmonton, AB, Canada, June 15-20, 2008, pp. 61. (Poster)

Blewett, H.J., (Blewett H.J., nee Hosea), Goruk, S.D., Eklund, M., Mosenthin, R., Christopherson, R.J., and Field, C.J. (2008). "Piglets fed a weaning diet containing small amounts of arachidonic acid and docosahexaenoic acids have a lower proliferative response to dietary protein ex vivo compared to controls.", Experimental Biology 2008, Nutritional Immunology Poster Competition, San Diego, CA, USA, April 5-9, 2008, published in FASEB Journal, 22 (Meeting Abstract Supplement) 450.3. (Presentation)

Blewett, H.J., (Blewett H.J., nee Hosea), Cicalo, M.C., Holland, C.D., and Field, C.J. (2008). "The immunological components of human milk.", *Advances in Food & Nutrition Research*, 54, pp. 45-80.

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Blewett, H.J., (Blewett H.J., nee Hosea), Goruk, S.D., Eklund, M., Mosenthin, R., Christopherson, R.J., and Field, C.J. (2007). "Peyer's Patch cells proliferate less in response to ovalbumin and soy *in vitro* when arachidonic acid and docosahexaenoic acid are included in the weaning diet of piglets.", Canadian Nutrition Congress (CNC2007) & Joint Annual Meeting of the CAOCS, CSAS, and CSNS, Winnipeg Convention Centre, Winnipeg, MB, Canada, June 18-21, 2007, pp. 71. (Poster)

Blewett, H.J., (Blewett H.J., nee Hosea), Gerdung, C.A., Ruth, M.R., Martin, T.J., Goruk, S.D., Vine, D.F., Proctor, S.D., and Field, C.J. (2007). "Dietary trans vaccenic acid may favorably alter immune function in JCR:LA-cp rats.", Canadian Workshop on Conjugated Linoleic Acid 2007 (CLA2007), Winnipeg, MB, Canada, June 18-19, 2007, pp. 106. (Workshop)

Blewett, H.J., (Blewett H.J., nee Hosea), Gerdung, C.A., Ruth, M.R., Martin, T.J., Goruk, S.D., Vine, D.F., Proctor, S.D., and Field, C.J. (2007). "The effect of dietary trans vaccenic acid on immune function in JCR:LA-cp rats.", CLA Summit 2007 – Harvesting the Future, Kananaskis, AB, Canada, May 8-10, 2007. (Poster)

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Research Publications:

2013

Mapiye, C., Turner, T.D., Rolland, D., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Adipose tissue and muscle fatty acid profiles of steers fed red clover silage with and without flaxseed.", *Livestock Science*, 151(1), pp. 11-20. doi : 10.1016/j.livsci.2012.10.021

Mapiye, C., Dugan, M.E.R, Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., and Aalhus, J.L. (2013). "Erythrocytes assayed early ante mortem can predict adipose tissue and muscle *trans*-18:1 isomeric profiles of steers fed red clover silage supplemented with flaxseed.", *Canadian Journal of Animal Science*, 93(1), pp. 149-153. doi : 10.4141/CJAS2012-054

Rosser, C.L., Górká, P., Beattie, A.D., Block, H.C., McKinnon, C.M., Lardner, H.A., and Penner, G.B. (2013). "Effect of Maturity at Harvest on Yield, Chemical Composition, and In Situ Degradability for Annual Cereals used for Swathgrazing.", *Journal of Animal Science*. doi : 10.2527/jas.2012-5677

Mapiye, C., Aalhus, J.L., Turner, T.D., Rolland, D.C., Basarab, J.A., McAllister, T.A., Block, H.C., Uttaro, B., López-Campos, Ó., Proctor, S.D., and Dugan, M.E.R (2013). "Effects of feeding flaxseed or sunflower-seed in high-forage diets on beef production, quality and fatty acid composition.", *Meat Science*, 95(1), pp. 98-109. doi : 10.1016/j.meatsci.2013.03.033

2012

Amat, S., Hendrick, S., McAllister, T.A., Block, H.C., and McKinnon, J.J. (2012). "Effects of distillers' dried grains with solubles from corn, wheat or a 50:50 corn:wheat blend on performance, carcass characteristics and serum sulphate levels of feedlot steers.", *Canadian Journal of Animal Science*, 92(3), pp. 343-351. doi : 10.4141/cjas2011-127

Legesse, G., Small, J.A., Scott, S.L., Kebreab, E., Crow, G.H., Block, H.C., Robins, C.D., Khakbazan, M., and McCaughey, W.P. (2012). "Bioperformance evaluation of various summer pasture and winter feeding strategies for cow-calf production.", *Canadian Journal of Animal Science*, 92(1), pp. 89-102. doi : 10.4141/CJAS2011-082

2011

Legesse, G., Small, J.A., Scott, S.L., Crow, G.H., Block, H.C., Alemu, A.W., Robins, C.D., and Kebreab, E. (2011). "Predictions of enteric methane emissions for various summer pasture and winter feeding strategies for cow calf production.", *Animal Feed Science and Technology*, 166-167, pp. 678-687. doi : 10.1016/j.anifeedsci.2011.04.082

2010

Block, H.C., Bourne, J.L., Lardner, H.A., and McKinnon, J.J. (2010). "Evaluation of NRC (2000) model energy requirement and DMI equation accuracy and precision for wintering beef cows in western Canada.", *Canadian Journal of Animal Science*, 90(2), pp. 245-258. doi : 10.4141/CJAS09072

2009

Khakbazan, M., Scott, S.L., Block, H.C., Robins, C.D., and McCaughey, W.P. (2009). "Economic effects and energy use efficiency of incorporating alfalfa and fertilizer into grassbased pasture systems.", *International Journal of Biological and Life Sciences*, 5(2), pp. 74-79.

2008

Williams, L.M., Block, H.C., Christensen, D.A., Racz, V., Ataku, K., Wildeman, B., and McKinnon, J.J. (2008). "Effect of feeding a processed barley/canola meal pellet on performance and carcass quality of feedlot steers.", *Canadian Journal of Animal Science*, 88(4), pp. 667-676. doi : 10.4141/CJAS08053

2007

Klinger, S.A., Block, H.C., and McKinnon, J.J. (2007). "Nutrient digestibility, fecal output and eating behaviour for different cattle background feeding strategies.", *Canadian Journal of Animal Science*, 87(3), pp. 393-399. doi : 10.4141/A06-070

Klinger, S.A., Block, H.C., Campbell, J., Wildeman, B., and McKinnon, J.J. (2007). "The effects of limit feeding a high-energy barley-based diet to backgrounding cattle in western Canada.", *Canadian Journal of Animal Science*, 87(3), pp. 385-391. doi : 10.4141/A06-069

Vidovic, S., Block, H.C., and Korber, D.R. (2007). "Effect of soil composition, temperature, indigenous microflora and environmental conditions on the survival of *Escherichia coli* O157:H7.", *Canadian Journal of Microbiology*, 53(7), pp. 822-829. doi : 10.1139/W07-041

Yu, P., Niu, Z., Block, H.C., and Doiron, K. (2007). "Rapid characterization of molecular chemistry, nutrient make-up and microlocation of internal seed tissue.", *Journal of Synchrotron Radiation*, 14(4), pp. 382-390. doi : 10.1107/S0909049507014264

Buchanan, F.C., Van Kessel, A.G., Boisclair, Y.R., Block, H.C., and McKinnon, J.J. (2007). "The leptin arg25cys affects performance, carcass traits and serum leptin concentrations in beef cattle.", *Canadian Journal of Animal Science*, 87(2), pp. 153-156. doi : 10.4141/A06-077

Other Science Related Publications:

2013

Rosser, C.L., Beattie, A.D., Block, H.C., McKinnon, J.J., Lardner, H.A., and Penner, G.B. (2013). "Effect of Harvest Maturity of Whole-Crop Oat (*Avena* spp.) on Forage Intake, Rumen Fermentation and Total Tract Digestibility.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, O03-GS, pp. 4.

Block, H.C., Durunna, O.N., Robins, C.D., Entz, M.H., Khakbazan, M., and Scott, S.L. (2013). "Effect of rested grazing and alfalfa inclusion in brome grass pastures on cow-calf productivity.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, O36, pp. 17.

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Composition of biohydrogenation intermediates in intramuscular fat of yearling steers fed forage-based diets with supplemental flaxseed or sunflower-seed.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P28, pp. 36. (Poster)

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Beef production and quality of yearling steers fed high-forage diets with flaxseed or sunflower-seed.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P29, pp. 37. (Poster)

Block, H.C., Rosser, C.L., Beattie, A.D., McKinnon, J.J., Lardner, H.A., and Penner, G.B. (2013). "Effect of harvest maturity and crop on forage yield and the productivity weaned beef calves strip-grazing annual swaths.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, O37, pp. 18.

Turner, T.D., Mapiye, C., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Lopez-Campos, O., Aalhus, J.L., and Dugan, F.M. (2013). "Inclusion of perirenal fat to enhance the bioactive fatty acid content of hamburger.", 2013, Banff, Alberta, Canada, June 18-20, 2013.

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Effects of feeding flaxseed or sunflower-seed in high forage diets on biohydrogenation intermediates in adipose tissues of yearling steers.", ADSA-ASAS Joint Annual Meeting, Indianapolis, USA, July 2013. (Abstract)

Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., and Dugan, M.E.R (2013). "Effects of feeding flaxseed and sunflower seed diets in high forage diets on biohydrogenation intermediates in adipose tissues of yearling steers.", ADSA-ASAS Joint Annual Meeting, Indianapolis, USA, July 2013. (Abstract)

Straathof, C., Paradis, F., Block, H.C., Colazo, M.G., Yarencio, B., Li, C., Bruce, H.L., and Fitzsimmons, C.J. (2013). "Investigating RFI and diet interactions on ADG, body weight, rib and back fat thickness in pregnant Angus heifers.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P25, pp. 35. (Poster)

Turner, T.D., Aalhus, J.L., Mapiye, C., Rolland, D.C., Larsen, I.L., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., and Dugan, M.E.R (2013). "Enriching hamburger with PUFA biohydrogenation products by supplementing steers fed high forage diets with either flaxseed or sunflower seed: Effects of adipose tissue source on palatability and fatty acid composition.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P20, pp. 32. (Poster)

2012

Mapiye, C., Dugan, M.E.R, Turner, T.D., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., and Aalhus, J.L. (2012). "Relationships of trans-18:1 isomers between red blood cells and beef tissues in steers fed red clover silage with/without flaxseed.", 58th International Congress of Meat Science and Technology, Montreal, Canada, August 12-17, 2012.

2008

Khakbazan, M., Scott, S.L., Block, H.C., and Robins, C.D. (2008). "Impact of alfalfa and fertilizer on pastures: Forage Quality.", published by Manitoba Forage Council, Brandon, MB, Canada. (Factsheet)

Khakbazan, M., Scott, S.L., Block, H.C., Robins, C.D., and McCaughey, W.P. (2008). "Effect of incorporating alfalfa and/or fertiliser into grass pastures on net income of beef production systems.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, RP18. (Poster)

Khakbazan, M., Scott, S.L., Block, H.C., Robins, C.D., and McCaughey, W.P. (2008). "Effect of incorporating alfalfa and fertiliser into meadow brome grass pastures on forage quality.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, RP17, RO11. (Poster)

Block, H.C., Scott, S.L., Robins, C.D., McCaughey, W.P. (2008). "Effect of incorporating alfalfa and fertiliser on the carrying capacity and steer performance on meadow brome grass pastures.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, RO10. (Abstract)

Khakbazan, M., Scott, S.L., Block, H.C., Robins, C.D., and McCaughey, W.P. (2008). "Effect of incorporating alfalfa and fertiliser on the carrying capacity and steer performance on meadow brome grass pastures.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, RP10.

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Research Publications:

2014

Boiteau, G., Vincent, C., Leskey, T.C., Colpitts, B.G., MacKinley, P.D., and Lee, D.H. (2014). "Impact of host plant connectivity, crop border and patch size on adult Colorado potato beetle retention.", *PLoS ONE*, 9(5:e95717). doi : 10.1371/journal.pone.0095717

2013

Lee, D.H., Wright, S.E., Vincent, C., Boiteau, G., and Leskey, T.C. (2013). "Effectiveness of Glues for Harmonic Radar Tag Attachment on *Halyomorpha halys* (Hemiptera: Pentatomidae) and Their Impact on Adult Survivorship and Mobility.", *Environmental Entomology*, 42(3), pp. 515-523. doi : 10.1603/EN12320

Vahl, W.K., Boiteau, G., de Heij, M.E., MacKinley, P.D., and Kokko, H. (2013). "Female Fertilization: Effects of Sex-Specific Density and Sex Ratio Determined Experimentally for Colorado Potato Beetles and *Drosophila* Fruit Flies.", *PLoS ONE*, 8(4, Article No.E60381). doi : 10.1371/journal.pone.0060381

Boiteau, G. and MacKinley, P.D. (2013). "Role of avoidance behavior in the response of *Folsomia candida* to above-freezing cooling temperatures.", *Entomologia Experimentalis et Applicata*, 147(1), pp. 50-60. doi : 10.1111/eea.12048

Boiteau, G. and MacKinley, P.D. (2013). "Dispersal of adult Colorado potato beetles (Coleoptera: Chrysomelidae) on plant models.", *Canadian Entomologist*, 145(1), pp. 20-28. doi : 10.4039/tce.2012.85

2012

Huang, X.Q., Li, Z.-Y., Li, C.-R., Boiteau, G., and Gui, L.-Y. (2012). "Wing loading and extra loading capacity of adults of the Chinese citrus fruit fly, *Bactrocera (Tetradacus) minax* (Diptera: Tephritidae).", *Acta Entomologica Sinica*, 55(5), pp. 606-611.

Boiteau, G. and MacKinley, P.D. (2012). "Locomotor response of *Folsomia candida* (Collembola: Isotomidae) to cooling temperatures.", *Environmental Entomology*, 41(4), pp. 916-924. doi : 10.1603/en12008

Boiteau, G., Singh, R.P., McCarthy, P.C., and MacKinley, P.D. (2012). "Wood Ash Potential for Colorado Potato Beetle Control.", *American Journal of Potato Research*, 89(2), pp. 129-135. doi : 10.1007/s12230-012-9234-7

Gui, L.-Y., Boiteau, G., Colpitts, B.G., MacKinley, P.D., and McCarthy, P.C. (2012). "Random movement pattern of fed and unfed adult Colorado potato beetles in bare-ground habitat.", *Agricultural and Forest Entomology*, 14(1), pp. 59-68. doi : 10.1111/j.1461-9563.2011.00539.x

2011

Boiteau, G., Lynch, D.H., and MacKinley, P.D. (2011). "Avoidance tests with *Folsomia candida* for the assessment of copper contamination in agricultural soils.", *Environmental Pollution*, 159(4), pp. 903-906. doi : 10.1016/j.envpol.2010.12.023

Boiteau, G., Vincent, C., Meloche, F., Leskey, T.C., and Colpitts, B.G. (2011). "Harmonic radar: efficacy at detecting and recovering insects on agricultural host plants.", *Pest Management Science*, 67(2), pp. 213-219. doi : 10.1002/ps.2054

Nelson, K.L., Boiteau, G., Lynch, D.H., Peters, R.D., and Fillmore, S.A.E. (2011). "Influence of agricultural soils on the growth and reproduction of the bio-indicator *Folsomia candida*.", *Pedobiologia*, 54(2), pp. 79-86. doi : 10.1016/j.pedobi.2010.09.003

Gui, L.-Y., Huang, X.Q., Chuan-Ren, L., and Boiteau, G. (2011). "Validation of harmonic radar tags to study movement of Chinese citrus fly.", *Canadian Entomologist*, 143(4), pp. 415-422. doi : 10.4039/n11-017

Boiteau, G., Vincent, C., Meloche, F., Leskey, T.C., and Colpitts, B.G. (2011). "Evaluation of tag entanglement as a factor in harmonic radar studies of insect dispersal.", *Environmental Entomology*, 40(1), pp. 94-102. doi : 10.1603/EN10158

2010

Boiteau, G., Vincent, C., Meloche, F., and Leskey, T.C. (2010). "Harmonic radar: Assessing the impact of tag weight on walking activity of Colorado potato beetle, plum curculio, and western corn rootworm.", *Journal of Economic Entomology*, 103(1), pp. 63-69. doi : 10.1603/EC09113

Boiteau, G., McCarthy, P.C., and MacKinley, P.D. (2010). "Wind as an abiotic factor of Colorado potato beetle (Coleoptera: Chrysomelidae) flight take-off activity under field conditions.", *Journal of Economic Entomology*, 103(5), pp. 1613-1620. doi : 10.1603/EC09421

Boiteau, G. (2010). "Insect Pest Control on Potato: Harmonization of Alternative and Conventional Control Methods.", *American Journal of Potato Research*, 87(5), pp. 412-419. doi : 10.1007/s12230-010-9158-z

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2013

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Moiroux, J., Brodeur, J., and Boivin, G. (2012). "Influence de la température sur le sexe ratio d'un parasitoïde: modification comportementale ou contrainte physiologique?", 139e réunion annuelle de la Société d'entomologie du Québec, Boucherville, QC, Canada, November 1-2, 2012.

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Research Publications:

2013

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Research Publications:

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Research Publications:

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Research Publications:

2014

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Research Publications:

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Bailey, K.L., Boyetchko, S.M., Peng, G., Hynes, R.K., Erlandson, M.A., and Johnson, E.N. (2010). "Development of biopesticides for weeds, insects, and diseases.", Manitoba Weed Supervisors Association meeting, Russell, MB, Canada, April 9, 2010. (Presentation)

Hynes, R.K., Peng, G., Gossen, B.D., and Boyetchko, S.M. (2010). "Biofungicide formulation development for clubroot control.", 9th International Mycological Congress (IMC9): the Biology of Fungi, Edinburgh, Scotland, UK, August 1-6, 2010. (Poster)

Lahlali, R.L., Peng, G., Gossen, B.D., Hynes, R.K., Boyetchko, S.M., Hwang, S.F., and McDonald, M.R. (2010). "Investigation on modes of action for the biofungicides Serenade and Prestop in clubroot control.", Canadian Phytopathological Society (CPS) & Pacific Division of the American Phytopathological Society Joint 2010 Meeting, University of British Columbia, Vancouver, BC, Canada, June 20-23, 2010, Published in: *Canadian Journal of Plant Pathology*, 33(4), pp.573 (Abstract).

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Research Publications:

2014

Béland, K., Doré-Nguyen, M., Gagné, M.-J., Patey, N., Brassard, J., Alvarez, F., and Halac, U. (2014). "Torque Teno Virus in children with orthotopic liver transplantation: new insights about a common pathogen.", *The Journal of Infectious Diseases*, 209(2), pp. 247-254. doi : 10.1093/infdis/jit423

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Research Publications:

2013

Braun, P.G. and Hildebrand, P.D. (2013). "Effect of sugar alcohols, antioxidants and activators of systemically acquired resistance on severity of bacterial angular leaf spot (*Xanthomonas fragariae*) of strawberry in controlled environment conditions.", *Canadian Journal of Plant Pathology*, 35(1), pp. 20-26. doi : 10.1080/07060661.2012.751937

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Research Publications:

2014

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Research Publications:

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Research Publications:

2014

Adam, Z., Tambong, J.T., Lewis, C.T., Lévesque, C.A., Chen, W., Bromfield, E.S.P., Khan, I.U.H., and Xu, R. (2014). "Draft Genome Sequence of *Pantoea ananatis* Strain LMG 2665T, a Bacterial Pathogen of Pineapple Fruitlets.", *Genome Announcements*, 2(3: e00489-14). doi : 10.1128/genomeA.00489-14

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Research Publications:

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Research Publications:

2013

Tkachuk, V.L., Krause, D.O., McAllister, T.A., Buckley, K.E., Reuter, T.R., Hendrick, S., and Ominski, K.H. (2013). "Assessing the inactivation of *Mycobacterium avium* subspecies paratuberculosis during composting of livestock carcasses.", *Applied and Environmental Microbiology*, 79(10), pp. 3215-3224. doi : 10.1128/AEM.03768-12

Bouchard, K., Wittenberg, K.M., Legesse, G., Krause, D.O., Khafipour, E., Buckley, K.E., and Ominski, K.H. (2013). "Comparison of feed intake, body weight gain, enteric methane emission and relative abundance of rumen microbes in steers fed sainfoin and lucerne silages under western Canadian conditions.", *Grass and Forage Science*. doi : 10.1111/gfs.12105

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Gagnon, B., Demers, I., Ziadi, N., Chantigny, M.H., Parent, L.-É., Forge, T.A., Larney, F.J., and Buckley, K.E. (2012). "Forms of phosphorus in composts and in compostamended soils following incubation.", *Canadian Journal of Soil Science*, 92(5), pp. 711-721. doi : 10.4141/CJSS2012-032

Bittman, S., Liu, A., Hunt, D.E., Forge, T.A., Kowalenko, C.G., Chantigny, M.H., and Buckley, K.E. (2012). "Precision Placement of Separated Dairy Sludge Improves Early Phosphorus Nutrition and Growth in Corn (*Zea mays* L.).", *Journal of Environmental Quality*, 41(2), pp. 582-591. doi : 10.2134/jeq2011.0284

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Buckley, K.E., Therrien, M.C., and Mohr, R.M. (2011). "Agronomic performance of barley cultivars in response to varying rates of swine slurry.", *Canadian Journal of Plant Science*, 91(1), pp. 69-79. doi : 10.4141/CJPS09032

Moulin, A.P., Buckley, K.E., and Volkmar, K.M. (2011). "Soil quality as affected by amendments in bean-potato rotations.", *Canadian Journal of Soil Science*, 91(4), pp. 533-542. doi : 10.4141/cjss10011

Bittman, S., Hunt, D.E., Kowalenko, C.G., Chantigny, M.H., Buckley, K.E., and Bounaïx, F. (2011). "Removing solids improves response of grass to surface-banded dairy manure slurry: A multiyear study.", *Journal of Environmental Quality*, 40(2), pp. 393-401. doi : 10.2134/jeq2010.0177

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Chantigny, M.H., Rochette, P., Angers, D.A., Bittman, S., Buckley, K.E., Massé, D.I., Bélanger, G., Eriksen-Hamel, N.S., and Gasser, M.-O. (2010). "Soil nitrous oxide emissions following band-incorporation of fertilizer nitrogen and swine manure.", *Journal of Environmental Quality*, 39(5), pp. 1545-1553. doi : 10.2134/jeq2009.0482

Buckley, K.E., Mohr, R.M., and Therrien, M.C. (2010). "Yield and quality of oat in response to varying rates of swine slurry.", *Canadian Journal of Plant Science*, 90(5), pp. 645-653. doi : 10.4141/CJPS09033

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Larney, F.J. and Buckley, K.E. (2007). "Dry matter mass balance estimates for composted feedlot manure.", *Compost Science & Utilization*, 15(4), pp. 222-227.

Other Science Related Publications:

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Buckley, K.E. (2012). "An overview of integrated farming systems Manure treatment options.", 22nd Annual National Compost Conference, Monreal, QC, Canada, Sept. 19-21, 2012. (Presentation)

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Buckley, K.E., Mohr, R.M., Coulter, V., Phillips, K., and Westwood, R. (2011). "Nutrient status of potatoes grown on compost amended soils as determined by sap nitrate levels.", 21st Annual National Compost Conference, Charlottetown, PEI, Canada, September 19-21, 2011. (Presentation)

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Moulin, A.P., Buckley, K.E., and Volkmar, K.M. (2009). "Soil quality as affected by amendment in bean-potato rotation.", Joint Annual Meeting of the CSA-CSSS-CSAFM: Sciences for Sustainability: Soils, Agronomy, and Atmosphere, University of Guelph, Guelph, ON, Canada, August 5-7, 2009.

Entz, M.H., Welsh, C., Tenuta, M., and Buckley, K.E. (2009). "Using Manure Compost in Forage-Based Cropping Systems: Results from the Glenlea Long-Term Rotation Study.", Manure Compost Information Day, MAFRI Ag Centre, Brandon, MB, Canada, November 4, 2009. (Presentation)

Bittman, S., Liu, A., Bhandral, R., Hunt, D.E., Kowalenko, C.G., Buckley, K.E., and Chantigny, M.H. (2009). "Sustainable use of dairy slurry on crops: Dual manure stream concept.", Farming Systems Design 2009: Methodologies for Integrated Analysis of Farm Production Systems, Portola Hotel, Monterey, CA, USA, August 23-26, 2009, pp. 37-38.

Tkachuk, V.L., Buckley, K.E., Holley, R.A., McAllister, T.A., Ominski, K.H., and Krause, D.O. (2009). "Inactivation of *Mycobacterium avium* spp. paratuberculosis (causative agent of Johne's disease) by dead-stock composting.", Canadian Traceability Research & Development Strategy Workshop, Fairmont Hotel, Winnipeg, MB, Canada, June 2-3, 2009.

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Buckley, K.E. (2009). "Basics of large-scale composting.", Saskatoon Composting Workshop, Saskatoon, SK, Canada, June 16, 2009. (Presentation)

Buckley, K.E. (2009). "Compost amendment and soil nutrient accumulation.", Manure Compost Information Day, MAFRI Ag Centre, Brandon, MB, Canada, November 4, 2009. (Presentation)

Buckley, K.E. (2009). "Manure composting: Opportunities and challenges.", Manure Compost Information Day, MAFRI Ag Centre, Brandon, MB, Canada, November 4, 2009. (Presentation)

Buckley, K.E. (2009). "Pay dirt Farming with composts.", Little Saskatchewan River Conservation District Annual General Meeting, Basswood, MB, Canada, November 17, 2009. (Presentation)

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Tkachuk, V.L., Buckley, K.E., Holley, R.A., McAllister, T.A., Plaizier, K., Hendrick, S., Duizer, G., Martens, H., Popp, J.D., Ominski, K.H., and Krause, D.O. (2009). "Dead-stock composting of cattle to inactivate Johne's Disease causing organism.", Manitoba Grazing School 2009, Victoria Inn, Brandon, MB, Canada, December 1-2, 2009. (Poster)

Buckley, K.E. (2009). "Compost end uses.", Yorkton Composting Field Day, Yorkton, SK, Canada, June 18, 2009. (Presentation)

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Liu, A., Bittman, S., Forge, T.A., Kowalenko, C.G., Hunt, D.E., Bounaix, F., Friesen, A.J., Buckley, K.E., and Chantigny, M.H. (2008). "Starter and season-long P effects of dairy manure sludge injected near corn (*Zea mays* L.) rows.", *Plants and Soils: Montreal '08: Joint meeting of the CSHS, CSA and Northeastern Branch ASA-CSSA-SSSA*, McGill University, Montréal, QC, Canada, July 13-16, 2008.

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Forge, T.A., Neilsen, G.H., Neilsen, D., Larney, F.J., Buckley, K.E., Chantigny, M.H., Ziadi, N., McLeod, G.J., Sanderson, J.B., Bittman, S., and Liu, A. (2008). Improved understanding of the forms and fates of phosphorus in composts and development of compost BMP's for horticultural crops. GAPS Project No. 318. (Report)

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Research Publications:

2011

Kodde, J., Buckley, W.T., de Groot, C., Retiere, M., Zamora, A.M.V., and Groot, S.P.C. (2011). "A fast ethanol assay to detect seed deterioration.", *Seed Science Research*, 22(1), pp. 55-62. doi : 10.1017/S0960258511000274

Buckley, W.T. and Huang, J. (2011). "An ethanol-based seed vigour assay for canola.", *Seed Science and Technology*, 39(2), pp. 510-526.

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Buckley, W.T. and Vanderpool, R.A. (2008). "Analytical variables affecting exchangeable copper determination in blood plasma.", *BioMetals*, 21(6), pp. 601-612. doi : 10.1007/s10534-008-9146-7

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Groot, S.P.C., Kodde, J., de Groot, C., and Buckley, W.T. (2010). "A fast ethanol assay for seed vigour.", 29th Congress of the International Seed Testing Association (ISTA), Cologne, Germany, June 16-22, 2010.

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Buckley, W.T., Legge, W.G., and Izydorczyk, M.S. (2007). "Predicting early germination loss in malting barley with a 24 hour ethanol assay.", 5th Canadian Barley Symposium & District Western Canada Master Brewers Association of the Americas, York the Hotel, Winnipeg, MB, Canada, June 25-29, 2007.

Burgher-MacLellan, Karen, M.Sc.

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Research Publications:

2011

Williams, G.R., Shutler, D., Little, C.M., Burgher-MacLellan, K.L., and Rogers, R.E.L. (2011). "The microsporidian *Nosema ceranae*, the antibiotic Fumagilin-B®, and western honey bee (*Apis mellifera*) colony strength.", *Apidologie*, 42(1), pp. 15-22. doi : 10.1051/apido/2010030

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Brooks, S.P.J., Kheradpir, E., McAllister, M., Kwana, J., Burgher-MacLellan, K.L., and Kalmokoff, M.L. (2009). "In-feed administered sub-therapeutic chlortetracycline alters community composition and structure but not the abundance of community resistance determinants in the fecal flora of the rat.", *Anaerobe*, 15(4), pp. 145-154. doi : 10.1016/j.anaerobe.2009.01.007

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Bykova, Natalia V., Ph.D.

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Research Publications:

2013

Agrawal, G.K., Sarkar, A., Righetti, P.G., Pedreschi, R., Carpentier, S., Wang, T., Barkla, B.J., Kohli, A., Ndimba, B.K., Bykova, N.V., Rampitsch, C., Zolla, L., Rafudeen, M.S., Cramer, R., Bindschedler, L.V., Tsakirpaloglou, N., Ndimba, R.J., Farrant, J.M., Renaut, J., Job, D., Kikuchi, S., and Rakwal, R. (2013). "A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues.", *Mass Spectrometry Reviews*. doi : 10.1002/mas.21365

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Debnath, S.C., Siow, Y.L., Petkau, J.C., An, D., and Bykova, N.V. (2012). "Molecular markers and anti-oxidant activity in berry crops genetic diversity analysis.", *Canadian Journal of Plant Science*, 92(6), pp. 1121-1133. doi : 10.4141/cjps2011-240

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Juszczyk, I.M., Bykova, N.V., and Møller, I.M. (2007). "Protein phosphorylation in plant mitochondria.", *Physiologia Plantarum*, 129(1), pp. 90-103. doi : 10.1111/j.1399-3054.2006.00793.x

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Bykova, N.V., Hoehn, B., Rampitsch, C., Hu, J.-N., and Fan, T. (2013). "Redox-mediated regulation of wheat seed dormancy revealed through modification specific proteomics.", 11th International Conference on Reactive Oxygen and Nitrogen Species in Plant, Warsaw, Poland. (Poster)

Bykova, N.V., Hu, J.-N., Rampitsch, C., Stebbing, J.A., and Fan, T. (2013). "Proteomic profiling of membrane-associated protein complexes in wheat aleurone tissue using Blue Native gels and label-free semi-quantitative LC-MS/MS approach.", 5th Canadian National Proteomics Network Symposium, Vancouver, BC, Canada. (Poster)

Hu, J.-N., Stebbing, J.A., Fan, T., Rampitsch, C., and Bykova, N.V. (2013). "Proteomic analysis reveals changes in abundance, composition, and phosphorylation of membrane-associated protein complexes from wheat aleurone in response to alteration in seed dormancy.", CSPB Annual Meeting, Quebec City, Canada. (Poster)

2012

Bykova, N.V. (2012). "Differential and redox-sensitive proteomic analysis of pre-harvest sprouting tolerance.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011, Published in: *Can. J. Plant Sci.*, 92(3), pp. 600.

Bykova, N.V. and Igamberdiev, A.U. (2012). "Metabolism of reactive oxygen and nitrogen species during germination of barley seeds with different levels of dormancy.", Annual Meeting of the Canadian Society of Plant Physiologists (CSPP/SCPV 2012), University of Alberta Campus, Edmonton, AB, Canada, June 25-27, 2012. (Presentation)

Shah, J.K., Hebelstrup, K.H., Bykova, N.V., and Igamberdiev, A.U. (2012). "The biotechnological use of hemoglobin overexpression in barley.", Annual Meeting of the American Society of Plant Biology, Austin, TX, USA, July 31-August 3, 2012, Poster P02048. (Abstract)

An, D., Bykova, N.V., and Debnath, S.C. (2012). "Identifying wild and cultivated cranberries and evaluating their relationships using morphology, and EST-PCR and ISSR markers.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, P1 Abstract Id 3764, pp. p.44.

Ma, Z., Igamberdiev, A.U., and Bykova, N.V. (2012). "Metabolism of reactive oxygen and nitrogen species during germination of barley seeds with different levels of dormancy.", Canadian Society of Plant Biologists Meeting (CSPB 2012), University of Alberta Campus, Edmonton, AB, Canada, June 25-27, 2012. (Presentation)

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Debnath, S.C., Siow, Y.L., Petkau, J.C., An, D., and Bykova, N.V. (2011). "Molecular markers and antioxidant activity in berry crop diversity analysis.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011, 78, Session 1. (Presentation)

Ma, Z., Igamberdiev, A.U., and Bykova, N.V. (2011). "The glycolytic and antioxidant H₂O₂ scavenging capacity of germinating barley seeds with different levels of dormancy.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011. (Presentation)

Hu, J., Hoehn, B., Rampitsch, C., and Bykova, N.V. (2011). "Impact of dormancy genotypes on differential protein expression profiles and redox-sensitive landscape of the proteome in hybrid spring wheat lines.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011. (Poster)

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Bykova, N.V., Hoehn, B., Rampitsch, C., Hu, J., Stebbing, J.A., and Knox, R.E. (2010). "Thiol redox-sensitive proteome and antioxidant protective mechanisms in wheat dormancy control.", Plant Biology 2010: Joint meeting of the Canadian Society of Plant Physiologists (CSPP) and American Society of Plant Biologists (ASPB), Montréal Convention Centre, Montréal, QC, Canada, July 31-August 4, 2010, P02045. (Abstract)

Igamberdiev, A.U., Bykova, N.V., and Kleczkowski, L.A. (2010). "Plant adaptation to low oxygen: switching to the alternative electron acceptor and the alternative energy currency.", Plant Biology 2010: Joint meeting of the Canadian Society of Plant Physiologists (CSPP) and American Society of Plant Biologists (ASPB), Montréal Convention Centre, Montréal, QC, Canada, July 31-August 4, 2010, P07033. (Abstract)

2009

Bykova, N.V. (2009). "Redox-Sensitive Proteome and Antioxidant Strategies in the innate immune response to *Fusarium Graminearum* in wheat.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Presentation)

Rampitsch, C., Subramaniam, R., Bykova, N.V., and Djuric-Ciganovic, S. (2009). "Protein phosphorylation and DON synthesis: Candidate phosphopeptides from wild-type and map kinase (*mgv1*)-deficient *Fusarium graminearum*.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, P68. (Abstract)

Bykova, N.V., Hoehn, B., Rampitsch, C., Banks, T.W., Stebbing, J.A., Fan, T., and Knox, R.E. (2009). "Redox-sensitive proteome and antioxidant strategies in wheat seed dormancy control.", Meeting on Plant Reactive Oxygen and Nitrogen Species, Helsinki, Finland, July 8-10, 2009, Abstract O15-118. (Presentation)

Igamberdiev, A.U., Bykova, N.V., and Hill, R.D. (2009). "Nitric oxide production and scavenging in plants under hypoxic conditions.", Meeting on Plant Reactive Oxygen and Nitrogen Species, Helsinki, Finland, July 8-10, 2009, Abstract O25-106. (Presentation)

Rampitsch, C., Subramaniam, R., Djuric-Ciganovic, S., and Bykova, N.V. (2009). "The phosphoproteome of *Fusarium graminearum* at the onset of nitrogen starvation reveals phosphopeptides from proteins with a potential role in mycotoxin regulation.", 11th International Congress on Amino Acids, Peptides and Proteins, Vienna, Austria, August 3-7, 2009, Abstract. Amino Acids 37: 112-113. (Abstract)

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Research Publications:

2014

Tazisong, I.A., Senwo, Z.N., Cade-Menun, B.J., and He, Z.Q. (2014). "Phosphorus forms and mineralization potentials of Alabama upland cotton production soils amended with poultry litter.", in He, Z. and Zhang, H. (eds.) *Applied Manure and Nutrient Chemistry for Sustainable Agriculture and Environment.*, Springer Science *Business Media*, Chapter 10, pp. 191-209.

Liu, J., Yang, J.J., Liang, X.Q., Zhao, Y., Cade-Menun, B.J., and Hu, Y.F. (2014). "Molecular speciation of readily dispersible colloidal phosphorus from agricultural soils.", *Soil Science Society of America Journal*, 78(1), pp. 47-53. doi : 10.2136/sssaj2013.05.0159

Cade-Menun, B.J. and Liu, C.W. (2014). "Solution 31P-NMR spectroscopy of soils from 2005-2013: A review of sample preparation and experimental parameters.", *Soil Science Society of America Journal*, 78(1), pp. 19-37. doi : 10.2136/sssaj2013.05.0187dgs

Giles, C.D. and Cade-Menun, B.J. (2014). "Phytate in animal manure and soils : Abundance, cycling and bioavailability.", in He, Z. and Zhang, H. (eds.) *Applied Manure and Nutrient Chemistry for Sustainable Agriculture and Environment.*, Springer Science *Business Media*, Chapter 9, pp. 163-189.

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Cade-Menun, B.J., Fouli, Y., and Chantigny, M.H. (2013). "Preface: Biological, chemical and physical processes in seasonally frozen soils.", *Canadian Journal of Soil Science*, 93(4), pp. 397-399. doi : 10.4141/CJSS2013-502

Young, E.O., Ross, D.S., Cade-Menun, B.J., and Liu, C.W. (2013). "Phosphorus speciation in riparian soils: A phosphorus-31 nuclear magnetic resonance spectroscopy and enzyme hydrolysis study.", *Soil Science Society of America Journal*, 77(5), pp. 1636-1647. doi : 10.2136/sssaj2012.0313

Liu, J., Yang, J.J., Cade-Menun, B.J., Liang, X.Q., Hu, Y.F., Liu, C.W., Zhao, Y., Li, L., and Shi, J.Y. (2013). "Complementary phosphorus speciation in agricultural soils by sequential fractionation, solution 31P NMR, and P K-edge XANES spectroscopy.", *Journal of Environmental Quality*, 42, pp. 1763-1770. doi : 10.2134/jeq2013.04.0127

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Wu, K., Fouli, Y., Perez-Valdivia, C., and Cade-Menun, B.J. (2011). "Impact of land management practices on prairie hydrology.", *Canadian Land Resources Network Meeting, Saskatoon, SK, Canada, June 2011. (Poster)*

Baker-Ismail, S., McMartin, D.W., Cade-Menun, B.J., Fouli, Y., and Wu, K. (2011). "Preliminary results of coliform monitoring at the Saskatchewan WEBS project.", 64th Annual CWRA National Conference: Our Water Our Life The Most Valuable Resource, St. John's, NL, Canada, June 27-30, 2011. (Poster)

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Liu, C.W., Alekseyev, V.Y., Allwardt, J.R., Bankovich, A.J., Cade-Menun, B.J., Davis, R.W., Du, L.-S., Garcia, K.C., Herschlag, D., Khosla, C., Kraut, D.A., Li, Q., Null, B., Puglisi, J.D., Sigala, P.A., Stebbins, J.F., and Varani, L. (2009). "The Diversity of Nuclear Magnetic Resonance Spectroscopy.", in Puglisi, J.D. (ed.) *NATO Science for Peace and Security Series B: Physics and Biophysics. Biophysics and the Challenges of Emerging Threats*, Springer, Chapter 5, pp. 65-81.

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Hill, J.E., Cade-Menun, B.J., Elimelech, M., Giles, C.D., Johnson, N., and Tyler, J. (2009). "Organic phosphorus cycling and speciation: Phytate tracking and transformation studies.", Great Lakes Phosphorus Forum with SERA-17 Annual Meeting, Hilton Hotel and St. Clair Centre, Windsor, ON, Canada, July 28-31, 2009. (Poster)

Giles, C.D., Cade-Menun, B.J., and Hill, J.E. (2009). "Phosphorus mobility and transformation in a poultry manure-amended soil as tracked with time and depth.", 238th American Chemical Society (ACS) Fall National Meeting & Exposition, Washington, DC, USA, August 16-20, 2009. (Presentation)

Smith, L.G., Watzin, M., Hill, J.E., Cade-Menun, B.J., and Druschel, G. (2009). "Nutrient speciation and mobility governed by redox changes of iron oxyhydroxide minerals controlled by sediment microorganisms in shallow, eutrophic Missisquoi Bay, Lake Champlain.", 2009 Geological Society of America (GSA) Annual Meeting, Oregon Convention Center, Portland, OR, USA, October 18-21, 2009. (Presentation)

Johnson, N.R., Cade-Menun, B.J., and Hill, J.E. (2009). "Enzyme hydrolysis as a tool for measuring bioavailable P in dairy manure storage and treatment systems.", 2009 ASA-CSSA-SSSA International Annual Meeting, Pittsburgh, PA, USA, November 1-5, 2009. (Presentation)

He, Z., Honeycutt, C.W., Olk, D.C., and Cade-Menun, B.J. (2009). "Characterization of humic-bound phosphorus from corn soils by wet chemistry and solution P-31 NMR spectroscopy.", 2009 ASA-CSSA-SSSA International Annual Meeting, Pittsburgh, PA, USA, November 1-5, 2009. (Poster)

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Cade-Menun, B.J. and Paytan, A. (2007). "Phosphorus forms and controls on phosphorus dynamics in sediments from Monterey Bay, California.", 2007 American Geophysical Union (AGU) Fall Meeting, Moscone Convention Center, San Francisco, CA, USA, December 10-14, 2007. (Abstract)

He, Z., Honeycutt, C.W., Cade-Menun, B.J., Senwo, Z.N., and Tazisong, I.A. (2007). "Transformation of Organic P Forms of Poultry Litter in Soil Identified by Enzymatic Hydrolysis and P-31 NMR Spectroscopy.", 2007 ASA-CSSA-SSSA International Annual Meetings, New Orleans, LA, USA, November 4-8, 2007. (Abstract)

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Research Publications:

2014

Meadus, W.J., Duff, P., McDonal, T., and Caine, W.R. (2014). "Pigs fed Camelina meal increase hepatic gene expression of cytochrome 8b1, aldehyde dehydrogenase, and thiosulfate transferase.", *Journal of Animal Science and Biotechnology*, 5(1). doi : 10.1186/2049-1891-5-1

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Juárez, M., Caine, W.R., Larsen, I.L., Robertson, W.M., Dugan, M.E.R, and Aalhus, J.L. (2009). "Enhancing pork loin quality attributes through genotype, chilling method and ageing time.", *Meat Science*, 83(3), pp. 447-453. doi : 10.1016/j.meatsci.2009.06.016

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Caine, W.R., Aalhus, J.L., Dugan, M.E.R, Lien, K.A., Larsen, I.L., Costello, K.A.F., McAllister, T.A., Stanford, K.I.M., and Sharma, R. (2007). "Growth performance, carcass characteristics and pork quality of pigs fed diets containing meal from conventional or glyphosate-tolerant canola.", *Canadian Journal of Animal Science*, 87(4), pp. 517-526. doi : 10.4141/CJAS07028

Other Science Related Publications:

2013

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Juárez, M., Caine, W.R., Aalhus, J.L., Robertson, W.M., and Dugan, M.E.R (2009). "Enhancing pork loin quality attributes through genotype, chilling method and ageing time.", ADSA-CSAS-ASAS 2009 Joint Annual Meeting, Montréal Convention Center, Montréal, QC, Canada, July 12-16, 2009. (Abstract)

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Aalhus, J.L., Uttaro, B., Robertson, W.M., Dugan, M.E.R, Caine, W.R., Meadus, W.J., and Larsen, I.L. (2008). "Carcass and quality characteristics of cull swine preliminary data.", Annual Canadian Meat Science Association (CMSA) Meeting, Niagara Falls, ON, Canada, May 7-9, 2008. (Abstract)

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Research Scientist

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Research Publications:

2013

Ziadi, N., Cambouris, A.N., Nyiraneza, J., and Nolin, M.C. (2013). "Across a landscape, soil texture controls the optimum rate of N fertilizer for maize production.", *Field Crops Research*, 148, pp. 78-85. doi : 10.1016/j.fcr.2013.03.023

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Nyiraneza, J., Cambouris, A.N., Ziadi, N., Tremblay, N., and Nolin, M.C. (2012). "Spring Wheat Yield and Quality Related to Soil Texture and Nitrogen Fertilization.", *Agronomy Journal*, 104(3), pp. 589-599. doi : 10.2134/agronj2011.0342

Ziadi, N., Zebarth, B.J., Bélanger, G., and Cambouris, A.N. (2012). "Soil and Plant Tests to Optimize Fertilizer Nitrogen Management of Potatoes.", in He, Z., Larkin, R.P. and Honeycutt, C.W. (eds.) Sustainable Potato Production: Global Case Studies, Springer New York, Chapter 11, pp. 187-207.

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Lafond, J.A., Allaire, S.E., Dutilleul, P., Pelletier, B., Lange, S.F., and Cambouris, A.N. (2011). "Spatiotemporal analysis of the relative soil gas diffusion coefficient in two sandy soils: Variability decomposition and correlations between sampling dates at two spatial scales.", *Soil Science Society of America Journal*, 75(5), pp. 1613-1625. doi : 10.2136/sssaj2010.0419

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Fan, J., Ziadi, N., Bélanger, G., Parent, L.-É., Cambouris, A.N., and Hu, Z. (2009). "Cadmium accumulation in potato tubers produced in Quebec.", *Canadian Journal of Soil Science*, 89(4), pp. 435-443. doi : 10.4141/CJSS08069

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2012

Cambouris, A.N., Zebarth, B.J., and Nolin, M.C. (2012). "Soil management zones to manage N in potato crops in eastern Canada.", 20th Annual Northeast Potato Technology Forum, The University of Maine, Orono, ME, USA, March 7-8, 2012.

Nyiraneza, J., Ziadi, N., Cambouris, A.N., and Nolin, M.C. (2012). "Corn nitrogen response and residual soil nitrate are affected by soil texture, N rate and growing season conditions.", Canadian Society of Soil Science (CSSS) and Association Québécoise de Spécialistes en Sciences du Sol (AQSSS) Joint Meeting, Manoir St-Castin, Lac Beauport, QC, Canada, June 3-8, 2012. (Presentation)

Cambouris, A.N. (2012). "Environmental impact of using organic fertilizers on perennial biomass crops.", 4th International Congress EUROSOL: Soil Science for the Benefit of Mankind and Environment, Bari, Italy, July 2-6, 2012, S05.01a -4.

Cambouris, A.N. (2012). "Environmental impact of three fertilizer n sources for potato production on sandy soils.", 4th International Congress EUROSOL: Soil Science for the Benefit of Mankind and Environment, Bari, Italy, July 2-6, 2012, S08.02a -6.

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He, J., Tsao, R., Zhou, T., and Yang, R. (2007). "Purification of Patulin from *Penicillium expansum* Culture: High-speed Counter-Current Chromatography versus Preparative High Performance Liquid Chromatography.", XII International IUPAC Symposium on Mycotoxins and Phycotoxins, Istanbul, Turkey, May 21-25, 2007. (Abstract)

Tsao, R. (2007). "Exploring Native Canadian Plants for Human Health.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 78, SA1-4.

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Research Publications:

2013

- Wu, X., Cárcamo, H.A., Beres, B.L., Clarke, F.R., DePauw, R.M., and Pang, B. (2013). "Effects of novel wheat genotype on *Cephus cinctus* Norton (Hymenoptera:Cephididae) and its parasitoid *Bracon cephi* (Hymenoptera: Braconidae).", *Cereal Research Communications*, 41, pp. 647-660.
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Cárcamo, H.A. (2012). "The pea leaf weevil (*Sitona lineatus* L.) an overview of recent research and knowledge gaps.", Entomological Society of Canada 62nd and Entomological Society of Alberta 60th joint Annual Meeting, Coast Edmonton Plaza Hotel, Edmonton, AB, Canada, November 4-7, 2012, #26. (Abstract)

Otani, J.K., Meers, S., Hartley, S., Gavloski, J.E., Dossdall, L.M., Cárcamo, H.A., and Olfert, O.O. (2012). "Coordinated monitoring, forecasting and risk warning systems for field crop insects.", 24th International Congress of Entomology (ICE 2012) and International Organization for Biological Control (IOBC) Global Symposium, Daegu, South Korea, August 19-25, 2012.

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Research Publications:

2014

Fernández-Triana, J.L., Whitfield, J.B., Rodriguez, J.J., Smith, A.H., Janzen, D.H., Hallwachs, W., Hajibabaei, M., Burns, J.M., Solis, M.A., Brown, J., Cardinal, S., Goulet, H., and Hebert, P.D.N. (2014). "Review of *Apanteles sensu stricto* (Hymenoptera, Braconidae, Microgastrinae) from Area de Conservación Guanacaste, northwestern Costa Rica, with keys to all described species from Mesoamerica.", *ZooKeys*, 383, pp. 1-565. doi : 10.3897/zookeys.383.6418

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Bennett, A.M.R., Cardinal, S., Gauld, I.D., and Wahl, D.B. (2013). "Phylogeny of the Ichneumonidae.", Entomological Society of America (ESA) 61st Annual Meeting, Austin Convention Center, Austin, TX, USA, November 10-13, 2013.

Bennett, A.M.R., Cardinal, S., Gauld, I.D., and Wahl, D.B. (2013). "Morphological and molecular phylogeny of the subfamilies of Ichneumonidae (Hymenoptera).", Biosyst EU 2013. 2nd meeting of the Federation of European Biological Systematic Societies, University of Vienna, Vienna, Austria, February 18-22, 2013.

2012

Pernal, S.F., Cardinal, S., and Javorek, S.K. (2012). "The Importance, Diversity and Status of Canada's Pollinator Resources: A Synthesis of Current AAFC Research.", Agriculture and Agri-Food Canada (AAFC) Research Branch Speaker Series, National Headquarters Complex for the Agriculture Portfolio (NHCAP), Ottawa, ON, Canada, June 26, 2012. (Presentation)

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Research Publications:

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Research Publications:

2013

Piva, A., Bertrand, A., Bélanger, A., Castonguay, F.W., and Séguin, P. (2013). "Growth and physiological response of timothy to elevated carbon dioxide and temperature under contrasted nitrogen fertilization.", *Crop Science*, 53(2), pp. 704-715. doi : 10.2135/cropsci2012.07.0436

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Pouliot, É., Gariépy, C., Thériault, M., Avezard, C., Fortin, J., and Castonguay, F.W. (2009). "Growth performance, carcass traits and meat quality of heavy lambs reared in a warm or cold environment during winter.", *Canadian Journal of Animal Science*, 89(2), pp. 229-239. doi : 10.4141/CJAS08101

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Baba-Khelil, A., Thériault, M., Castonguay, F.W., Pouliot, G., and Pouliot, É. (2012). "Étude de pesée des produits tripiers chez l'agneau.", *Ovin Québec*, 12(1), pp. 14-16.

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Blais, E., Castonguay, F.W., and Element-Boulianne, C. (2011). "Le CIDR : Protocoles d'utilisation et efficacité sous la loupe.", *Ovin Québec*, 11(4), pp. 41-42.

Demers Caron, V., Castonguay, F.W., and Pellerin, D. (2011). "Augmenter la prolificité... une valeur sure!", *Ovin Québec*, 11(1), pp. 28-31.

Maher, G., Maurice, C., Lessard, C.J., Thériault, M., Castonguay, F.W., Cinq-Mars, D., Bernier, J., and Bailey, J.L. (2011). "Egg yolk or milk? Which is preferred by boar spermatozoa?", 36th Annual Conference of the American Society of Andrology Annual Meeting, Hyatt Regency Montréal, Montréal, QC, Canada, April 2-5, 2011. (Abstract)

Thériault, M., Castonguay, F.W., Poirier, V., and Demers Caron, V. (2011). "Le sevrage hâtif d'un agneau... Solution pour l'élevage des portées multiples?", *Ovin Québec*, 11(3), pp. 41-45.

Cameron, J., Castonguay, F.W., and Thériault, M. (2011). "Why have photoperiodic programs for controlling sheep reproduction become so popular in Quebec? The complete story.", Ontario Sheep Seminars, Attwood and Napanee, ON, Canada, 2011.

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Element-Boulianne, C., Thériault, M., and Castonguay, F.W. (2009). "Pas ce soir chérie, je suis en contre-saison...", *Ovin Québec*, 9(4), pp. 38-39.

Pouliot, É., Castonguay, F.W., Thériault, M., Gariépy, C., Avezard, C., Fortin, J., and Simmons, N.J. (2009). "Pratiques post-abattage et qualité de la viande d'agneau au Québec : constat, solutions de rechange et perspectives.", Symposium ovin 2009, Granby, QC, Canada, September 18-19, 2009, pp. 47-62.

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Demers Caron, V., Pellerin, D., and Castonguay, F.W. (2008). "Influence of production traits on the sheep enterprise profitability: A modeling approach.", *Journal of Dairy Science (JDS)*, 91(E-Suppl. 1), pp. 495 (#TH273). (Abstract)

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Pouliot, É., Gariépy, C., Avezard, C., Thériault, M., and Castonguay, F.W. (2007). "Agneaux lourds et bergeries froides : Impact sur les performances de croissance et la qualité de la viande.", *Ovin Québec*, 7(3), pp. 15-18.

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Boivin, C., Thériault, M., Cameron, J., Malpaux, B., and Castonguay, F.W. (2007). "Effet de l'intensité lumineuse sur les performances de reproduction des brebis et sur la croissance des agneaux.", 5e édition de la Journée de Recherche en Production Ovine, L'Oiselière Lévis Hotel, Lévis, QC, Canada, May 25, 2007, pp. 81-86.

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Research Publications:

2014

Tremblay, G.F., Morin, C., Bélanger, G., Bertrand, A., Castonguay, Y., Berthiaume, R.R., and Allard, G. (2014). "Silage Fermentation of PMand AM-Cut Alfalfa Wilted in Wide and Narrow Swaths", *Crop Science*, 54(1), pp. 439-452. doi : 10.2135/cropsci2013.07.0443

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Dubé, M.-P., Castonguay, Y., Duceppe, M.-O., Bertrand, A., and Michaud, R. (2013). "SRAP Polymorphisms Associated to Cell Wall Degradability in Lignified Stems of Alfalfa.", *BioEnergy Research*, 6(2), pp. 644-650. doi : 10.1007/s12155-012-9284-1

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Bélanger, G., Tremblay, G.F., Berthiaume, R.R., Bertrand, A., Castonguay, Y., Michaud, R., and Allard, G.C. (2013). "Increasing non-structural carbohydrates in forages.", in Bittman, S and Hunt, D. (eds.) *Cool Forages Advanced management of temperate forages*, Pacific Field Corn Association, Agassiz, BC, Canada, pp. 180-183.

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Dubé, M.-P., Castonguay, Y., Cloutier, J., Michaud, J., and Bertrand, A. (2013). "Characterization of two novel cold-inducible K₃ dehydrin genes from alfalfa (*Medicago sativa* spp. *sativa* L.).", *Theoretical and Applied Genetics (TAG)*, 126(3), pp. 823-835. doi : 10.1007/s00122-012-2020-6

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Morin, C., Tremblay, G.F., Bélanger, G., Bertrand, A., Castonguay, Y., Drapeau, R., Michaud, R., Berthiaume, R.R., and Allard, G. (2012). "Nonstructural Carbohydrate Concentration during Field Wilting of PMand AM-Cut Alfalfa.", *Agronomy Journal*, 104(3), pp. 649-660. doi : 10.2134/agronj2011.0365

Duceppe, M.-O., Bertrand, A., Pattathil, S., Miller, J., Castonguay, Y., Hahn, M.G., Michaud, R., and Dubé, M.-P. (2012). "Assessment of Genetic Variability of Cell Wall Degradability for the Selection of Alfalfa with Improved Saccharification Efficiency.", *BioEnergy Research*, 5(4), pp. 904-914. doi : 10.1007/s12155-012-9204-4

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Bertrand, A., Tremblay, G.F., Pelletier, S., Castonguay, Y., and Bélanger, G. (2008). "Yield and nutritive value of timothy as affected by temperature, photoperiod and time of harvest.", *Grass and Forage Science*, 63(4), pp. 421-432. doi : 10.1111/j.1365-2494.2008.00649.x

Brito, A.F., Tremblay, G.F., Bertrand, A., Castonguay, Y., Bélanger, G., Michaud, R., Lapierre, H., Benchaar, C., Petit, H.V., Ouellet, D.R., and Berthiaume, R.R. (2008). "Alfalfa Cut at Sundown and Harvested as Baleage Improves Milk Yield of Late-Lactation Dairy Cows.", *Journal of Dairy Science (JDS)*, 91(10), pp. 3968-3982. doi : 10.3168/jds.2008-1282

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Allard, G., Tremblay, G.F., Bélanger, G., Bertrand, A., Castonguay, Y., Drapeau, R., Michaud, R., Berthiaume, R.R., Pellerin, D., Lefebvre, D.M., and Fournier, A. (2012). "Production de fourrages riches en sucres pour améliorer les performances de la vache laitière.", Forum Technologique NOVALAIT / IDF Dairy Science and Technology Week 2012, Hôtel et Suites Le Dauphin, Drummondville, QC, Canada, May 29, 2012, P2012-01. (Abstract)

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Berthiaume, R.R., Lafrenière, C., Tremblay, G.F., Bélanger, G., Bertrand, A., Castonguay, Y., Drapeau, R., Michaud, R., Allard, G., Pellerin, D., Fournier, A., and Lefebvre, D.M. (2012). "Forages: Cows like them sweet!", Thunder Bay District Soil and Crop Improvement Association's Spring Farm Conference 2012, Thunder Bay, ON, Canada, April 11, 2012.

Bertrand, A., Bourassa, J., Bélanger, G., Mongrain, D., Tremblay, G.F., and Castonguay, Y. (2012). "Les hausses de températures et du CO₂ affecteront-elles la productivité des plantes fourragères?", Demi-journée d'information scientifique sur les fourrages 2012, Victoriaville, QC, Canada, February 21, 2012, pp. 32-33.

Tremblay, G.F., Berthiaume, R.R., Allard, G., Bertrand, A., Brito, A.F., Castonguay, Y., Chouinard-Michaud, C., Drapeau, R., Lafrenière, C., Lefebvre, D.M., Michaud, R., Pellerin, D., Fournier, A., Morin, C., and Pelletier, S. (2012). "Du fourrage sucré pour mieux performer.", Analyse de groupe de lait 2011 et valorisation des fourrages : Du champ au réservoir à lait, Hôtel du jardin, Saint-Félicien, QC, Canada, April 24, 2012, pp. 1-10.

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Bertrand, A., Bélanger, G., Castonguay, Y., and Tremblay, G.F. (2011). "Temperature and CO₂ affect yield, root biomass, and nutritive value of Canadian tame and native forage species.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011, Abstract 68182. (Abstract)

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Brito, A.F., Tremblay, G.F., Bertrand, A., Castonguay, Y., Bélanger, G., Michaud, R., and Berthiaume, R.R. (2010). "High total nonstructural carbohydrates timothy enhanced performance of mid-lactation dairy cows.", ADSA-PSA-AMPA-CSAS-ASAS 2010 Joint Annual Meeting, Denver, CO, USA, July 11-15, 2010.

Castonguay, Y., Rémus-Borel, W., Cloutier, J., Laberge, S., Bertrand, A., and Michaud, R. (2010). "Characterization of dehydrin variants linked to freezing tolerance in alfalfa at the DNA and post-transcriptional level.", in Huyghe, C. (ed.) Sustainable use of Genetic Diversity in Forage and Turf Breeding, Springer Berlin / Heidelberg.

Bélanger, G., Pelletier, S., Tremblay, G.F., Bertrand, A., Drapeau, R., Castonguay, Y., and Pageau, D. (2010). "Non structural carbohydrate concentration of AM and PM-cut forage species.", 23rd General Meeting of the European Grassland Federation (EGF 2010): Grassland in a Changing World, Kiel, Germany, August 29-September 2, 2010, #3.1.10, Abstract p. 81.

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2011

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Marambe, H.K., McIntosh, T.C., Cheng, B.F., and Wanasundara, P.K.J.P.D. (2013). "Denaturation of 2S Albumin Napin and Implication of Structural Changes on Allergenic Properties of Yellow Mustard (*Sinapis alba*).", Agricultural biotechnology International Conference, Calgary, Canada, September 15-18, 2013.

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Research Publications:

2013

Ivan, M., Petit, H.V., Chiquette, J., and Wright, A.-D.G. (2013). "Rumen fermentation and microbial population in lactating dairy cows receiving diets containing oilseeds rich in C-18 fatty acids.", *British Journal of Nutrition*, 109(7), pp. 1211-1218. doi : 10.1017/S0007114512003030

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Chiquette, J. (2007). "Evaluation of the protective effect of probiotics given to dairy cows during a lactic acidosis challenge.", *Journal of Dairy Science (JDS)*, 89(1), pp. 233(T230). (Abstract)

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Research Publications:

2013

Legge, W.G., Tucker, J.R., Bizimungu, B., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Noll, J.S., Tekauz, A., Turkington, T.K., Savard, M.E., and Choo, T.-M. (2013). "Cerveza barley.", *Canadian Journal of Plant Science*, 93(3), pp. 557-564. doi : 10.4141/cjps2012-299

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Kumaraswamy, G.K., Bollina, V., Kushalappa, A.C., Choo, T.-M., Dion, Y., Rioux, S., Mamer, O., and Faubert, D. (2011). "Metabolomics technology to phenotype resistance in barley against *Gibberella zeae*.", *European Journal of Plant Pathology*, 130(1), pp. 29-43. doi : 10.1007/s10658-010-9729-3

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Legge, W.G., Tucker, J.R., Tekauz, A., Martin, R.A., Choo, T.-M., Blackwell, B.A., and Savard, M.E. (2011). "Development of two-row malting barley with improved fusarium head blight resistance at Agriculture and Agri-Food Canada's Brandon Research Centre.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, Published in: Gilbert, J. and Tekauz, A. (Eds.), Proceedings of the 7th Canadian Workshop on Fusarium Head Blight, pp. 105.

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Legge, W.G., Therrien, M.C., Tucker, J.R., Tekauz, A., Savard, M.E., Choo, T.-M., Ho, K.M., Vigier, B.J., Martin, R.A., Turkington, T.K., Rossnagel, B.G., Voth, D., Zatorski, T., Helm, J.H., Juskiw, P.E., Nyachiro, J.M., Xi, K., and Zantinge, J.L. (2007). 2006-07 Interim Report to the Canadian Wheat Board, Improving resistance to Fusarium head blight in barley germplasm., AAFC Brandon Research Centre, MB. (Report)

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Research Publications:

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Ziadi, N., Bélanger, G., and Claessens, A. (2012). "Relationship between soil nitrate accumulation and in-season corn N nutrition indicators.", *Canadian Journal of Plant Science*, 92(2), pp. 331-339. doi : 10.4141/CJPS2011-086

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Research Publications:

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Research Publications:

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Morrison, M.J., McAndrew, D., and Cober, E.R. (2012). "Climate and photoperiod influence soybean cultivar adaptation in Manitoba and Ontario.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, D1.1. (Presentation)

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Research Publications:

2014

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Research Publications:

2013

Beres, B.L., Pozniak, C.J., Bressler, D., Gibreel, A., Eudes, F., Graf, R.J., Randhawa, H.S., Salmon, D.F., McLeod, G.J., Dion, Y., Irvine, R.B., Voldeng, H.D., Martin, R.A., Pageau, D., Comeau, A., DePauw, R.M., Phelps, S.M., and Spaner, D.M. (2013). "A Canadian Ethanol Feedstock Study to Benchmark the Relative Performance of Triticale: II. Grain Quality and Ethanol Production.", *Agronomy Journal*, 105, pp. 1707-1720. doi : 10.2134/agronj2013.0193

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Research Publications:

2014

Peters, R.D., Al-Mughrabi, K.I., Kalischuk, M.L., Dobinson, K.F., Conn, K.L., Alkher, H.A., Islam, M.R., Daayf, F., Lynn, J., Bizimungu, B., De Koeber, D.L., Lévesque, A., and Kawchuk, L.M. (2014). "Characterization of *Phytophthora infestans* population diversity in Canada reveals increased migration and genotype recombination.", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2014.892900

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Research Publications:

2014

Chang, K.F., Conner, R.L., Hwang, S.F., Ahmed, H.U., McLaren, D.L., Gossen, B.D., and Turnbull, G.D. (2014). "Effects of seed treatments and inoculum density of *Fusarium avenaceum* and *Rhizoctonia solani* on seedling blight and root rot of in faba bean.", *Canadian Journal of Plant Science*, 94(4), pp. 693-700. doi : 10.4141/cjps2013-339

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Boersma, J.G., Conner, R.L., Balasubramanian, P.M., Yu, K., and Hou, A. (2013). "Marker-assisted dissection of anthracnose resistance in the dry bean cultivar 'Morden003'", *Canadian Journal of Plant Science*, 93(6), pp. 1115-1123. doi : 10.4141/CJPS2013-085

Conner, R.L., Chang, K.F., Hwang, S.F., Warkentin, T.D., and McRae, K.B. (2013). "Assessment of tolerance for reducing yield losses in field pea caused by *Aphanomyces* root rot.", *Canadian Journal of Plant Science*, 93(3), pp. 473-482. doi : 10.4141/cjps2012-183

Chang, K.F., Hwang, S.F., Ahmed, H.U., Strelkov, S.E., Conner, R.L., Gossen, B.D., Bing, D.-J., and Turnbull, G.D. (2013). "Yield loss and management of downy mildew on field pea in Alberta, Canada.", *Crop Protection*, 46, pp. 23-28. doi : 10.1016/j.cropro.2012.12.001

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Balasubramanian, P.M., Mündel, H.-H., Conner, R.L., and Hou, A. (2012). "AAC Tundra great northern dry bean.", *Canadian Journal of Plant Science*, 92(7), pp. 1403-1405. doi : 10.4141/cjps2012-066

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Thomas, J.B., Conner, R.L., and Graf, R.J. (2012). "Radiant hard red winter wheat.", *Canadian Journal of Plant Science*, 92(1), pp. 169-175. doi : 10.4141/CJPS2011-082

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Hwang, S.F., Gossen, B.D., Conner, R.L., Chang, K.F., Turnbull, G.D., Lopetinsky, K., and Howard, R.J. (2007). "Management strategies to reduce losses caused by rhizoctonia seedling blight of field pea.", *Canadian Journal of Plant Science*, 87(1), pp. 145-155. doi : 10.4141/P04-172

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Other Science Related Publications:

2013

Hou, A., Marsolais, F., Pajak, A., and Conner, R.L. (2013). "Genetic improvement of protein quality in edible beans with adaptation to Manitoba. Poster presentation.", Bean Improvement Cooperatives, Portland, OR, USA, October 28-30, 2013. (Poster)

McLaren, D.L., Henriquez, M.A., Conner, R.L., Balasubramanian, P.M., and Chang, K.F. (2013). "Root rot of pulses in Manitoba.", Manitoba Special Crops 7th Symposium, Victoria Inn and Convention Centre, Winnipeg, MB, Canada, February 6-7, 2013.

Li, W.J., Feng, J.-W., Chang, K.F., Conner, R.L., Hwang, S.F., Strelkov, S.E., Gossen, B.D., and McLaren, D.L. (2013). "Microsatellite DNA markers indicate quantitative trait loci controlling resistance to pea root rot caused by *Fusarium avenaceum*.", *Canadian Journal of Plant Pathology*, 35, pp. 107. (Abstract)

McLaren, D.L., Henriquez, M.A., Conner, R.L., and Chang, K.F. (2013). "2012 Field pea, dry bean and soybean research at the Brandon Research Centre.", *Pulse Beat*, 68(Spring), pp. 35-36.

Hou, A., Conner, R.L., Balasubramanian, P.M., and Boersma, J.G. (2013). "Black bean (*Phaseolus vulgaris* L.) germplasm rich in anthracnose resistance.", Bean Improvement Cooperatives, Portland, OR, USA, October 28-30, 2013. (Poster)

Feng, J., Chang, K.F., Hwang, S.F., Strelkov, S.E., Conner, R.L., Gossen, B.D., and McLaren, D.L. (2013). "Analysis of expressed sequence tags derived from a compatible pea-*Peronospora viciae* interaction.", *Canadian Journal of Plant Pathology*, 35, pp. 109. (Abstract)

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Boersma, J.G., Conner, R.L., Balasubramanian, P.M., Yu, K., and Hou, A. (2012). "Molecular marker-assisted dissection of anthracnose resistance in the common dry bean cultivar, 'morden003'.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012, Poster.

Balasubramanian, P.M., Chatterton, S., Hou, A., Conner, R.L., McLaren, D.L., Navabi, A., Pauls, K.P., and Bett, K.E. (2012). "Dry bean improvement on the prairies for high yield, disease resistance and seed quality.", Pulse Science Cluster Scientific Meeting 2012, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 5-6, 2012.

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Bowness, R.T., Gossen, B.D., Conner, R.L., Wolf, T.M., Chang, K.F., Willenborg, C.J., and Strelkov, S.E. (2012). "Effect of nozzle type and orientation on fungicide efficacy against mycosphaerella blight in field pea.", *Canadian Journal of Plant Pathology*, 34, pp. 326-327. (Abstract)

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Henriquez, M.A., McLaren, D.L., Conner, R.L., Balasubramanian, P.M., and Chang, K.F. (2012). "Root rot pathogens in dry bean and field pea fields in Manitoba.", Canadian Phytopathological Society (CPS) Manitoba Regional 2012 Meeting, Brandon, MB, Canada, November 29, 2012, Published in: *Can. J. Plant Pathol.* (2013), 35(2), pp. 270.

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- Feng, J., Chang, K.F., Hwang, S.F., Strelkov, S.E., Gossen, B.D., Conner, R.L., and McLaren, D.L. (2010). "Esterase activity produced by conidia of *Peronospora viciae* f. sp. *pisi*.", 8th Canadian Pulse Research Workshop, Calgary, AB, Canada, November 3-5, 2010, Published in: *Can J. Plant Sci.*(2011), 91(2), pp. 382, P-2. (Poster)
- Hou, A., Conner, R.L., Nguyen, V., Cui, Y., and Balasubramanian, P.M. (2010). "Worldwide dry bean germplasm collections useful for cultivar development for production in Canada.", 8th Canadian Pulse Research Workshop, Calgary, AB, Canada, November 3-5, 2010.
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- Hou, A., Conner, R.L., Balasubramanian, P.M., Yu, K., and Navabi, A. (2009). "Marker-Assisted Pyramiding of Resistance to Common Bacterial Blight and Anthracnose in Navy Bean.", XXth Biennial Meeting of the Bean Improvement Cooperative, Hilton Garden Inn, Fort Collins, CO, USA, October 25-28, 2009. (Abstract)
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Research Publications:

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Cossentine, J.E. (2014). "Microbial pathogens for biocontrol of spotted wing Drosophila (SWD).", British Columbia Cherry Association Annual Meeting and Research Review, Kelowna, BC, Canada, February 21, 2014. (Presentation)

2013

Johnson, T.S., Lowery, T., Cossentine, J.E., and Cory, J. (2013). "Climbing Cutworms and Cool Climate Pest Control.", British Columbia Wine Grape Conference, Penticton, BC, Canada, July, 2013. (Poster)

Cossentine, J.E., Vincent, C., Smirle, M.J., and Côté, J.-C. (2013). "*Choristoneura rosaceana*, obliquebanded leafroller (Lepidoptera: Tortricidae).", in Mason, P.G. and Gillespie, D.R. (eds.) Biological Control Programmes in Canada 2001-2012, CABI Publishing, Wallingford, UK, pp. 130-134.

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Cossentine, J.E., Blatt, S.E., Mason, P.G., Franklin, J.L., Brauner, A.M., Appleby, M.E., Grigg-McGuffin, K., Fraser, H., and Garipey, T.D. (2013). "A difficult directed biological control decision.", Joint Annual Entomological Society of Ontario and Canada meeting, Guelph, ON, Canada, October, 2013. (Poster)

Dhillon, J., Smirle, M.J., and Cossentine, J.E. (2013). "Incidence of ovoviviparity in *Drosophila suzukii*.", Joint Annual Entomological Society of Ontario and Canada meeting, Guelph, ON, Canada, October, 2013. (Poster)

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Johnson, S., Lowery, D.T., Cory, J.S., and Cossentine, J.E. (2011). "Mycosis at cool temperatures: the susceptibility of the temperate grape cutworm *Abagrotis orbis* to entomopathogenic fungi.", Entomological Society of British Columbia 2011 Annual General Meeting, Abbotsford, BC, Canada, October 14, 2011.

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Research Publications:

2013

Soufiane, B. and Côté, J.-C. (2013). "Discrimination Between Mesophilic and Psychrotolerant Strains in the *Bacillus cereus* Group Based on the *Pst*I Digestion of the *pycA* Gene.", *Current Microbiology*, 67(2), pp. 148-155. doi : 10.1007/s00284-013-0339-0

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Research Publications:

2014

Hu, J.-L., Nie, S.-P., Wu., Q.-M., Li, Chang, Fu, Z.-H., Gong, J., Cui, S.W., and Xie, M.-Y. (2014). "Polysaccharide from seeds of *Plantago asiatica* L. affects lipid metabolism and colon microbiota of mouse.", *Journal of Agricultural and Food Chemistry*, 62(1), pp. 229-234. doi : 10.1021/jf4040942

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Research Publications:

2014

DePauw, R.M., Knox, R.E., Cuthbert, R.D., Singh, A.K., and McCaig, T.N. (2014). "AAC Bailey hard red spring wheat.", *Canadian Journal of Plant Science*, 94(1), pp. 175-181. doi : 10.4141/cjps2013-252

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Research Publications:

2014

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Research Publications:

2014

Li, Q., Xing, Z.S., Danielescu, S., Jiang, Y., and Meng, F. (2014). "Data requirements for using combined conductivity mass balance and recursive digital filter method to estimate groundwater recharge in a small watershed New Brunswick, Canada.", *Journal of Hydrology*, 511, pp. 658-664. doi : 10.1016/j.jhydrol.2014.01.073

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Other Science Related Publications:

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Research Publications:

2014

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Research Publications:

2013

McClay, A.S. and De Clerck-Floate, R.A. (2013). "*Convolvulus arvensis* L., Field Bindweed (*Convolvulaceae*).", in Mason, P.G. and Gillespie, D.R. (eds.) Biological Control Programmes in Canada 2001-2012, CABI Publishing, Wallingford, UK, Chapter 45, pp. 307-309.

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Research Publications:

2014

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Caraza, M., De Koeyer, D.L., Mihovilovich, E., Bonierbale, M., and Wang-Pruski, G. (2013). "Identification of candidate genes associated with photoperiod for improving adaptation of potatoes to diverse environments.", 9th Canadian Plant Genomics Workshop, Halifax, NS, Canada, August 12-15, 2013.

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Tai, H.H., Worrall, K., Pelletier, Y., De Koeyer, D.L., and Calhoun, L.A. (2013). "Metabolites from CPB-resistant wild *Solanum* species.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

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Goyer, C., Tai, H.H., Gustafson, V., De Koeyer, D.L., and Rothwell, C. (2013). "Analysis of gene expression of two potato cultivars during common scab infection using microarrays.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

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Tai, H.H., Zebarth, B.J., Luo, S., Li, X.-Q., Millard, P., De Koeyer, D.L., and Xiong, X. (2012). "Development of gene expression indicators for nitrogen sufficiency in potato plants.", Potato Association of America Annual meetings, Denver, Colorado, USA.

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Frank, D., Tai, H.H., Duguay, J.L., De Koeyer, D.L., Gustafson, V., and Regan, S. (2010). "A rapid method for identifying sites of T-DNA integration in activation-tagged potato.", 7th Solanaceae Conference (SOL2010), Apex Hotel, Dundee, Scotland, UK, September 5-9, 2010, pp. 20. (Abstract)

Luo, S., Zebarth, B.J., Tai, H.H., Li, X.-Q., De Koeyer, D.L., and Millard, P. (2010). "Use of gene expression to detect potato nitrogen deficiency stress under field conditions.", 2010 ASA-CSSA-SSSA International Annual Meeting, Long Beach Convention Center, Long Beach, CA, USA, October 31-November 4, 2010. (Abstract)

Worrall, K., Pelletier, Y., Calhoun, L.A., De Koeyer, D.L., and Tai, H.H. (2010). "Metabolite profiling of leaves from Colorado Potato Beetle-resistant *Solanum species*.", Advances In Metabolic Profiling Conference 2010, Florence, Italy, November 9-10, 2010.

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Gibbons, J., Vasseur, E., Pellerin, D., Haley, D., Kelton, D.F., Orsel, K., Barkema, H.W., Pajor, E., Lefebvre, D.M., Weary, D.M., von Keyserlingk, M.A.G., Rushen, J.P., and de Passillé, A.M.B. (2012). "Improving cow comfort to increase longevity in Canadian dairy herds.", 30th Western Canadian Dairy Seminar (WCDS), Capri Centre, Red Deer, AB, Canada, March 6-9, 2012, Vol. 24, pp. 410.

Zaffino, J., Nash, C., DeVries, T.J., Kelton, D.F., LeBlanc, S.J., Gibbons, J., Rushen, J.P., de Passillé, A.M.B., Solano, L., Barkema, H.W., Orsel, K., and Haley, D. (2012). "Stall dimensions and prevalence of cow injuries on Canadian free-stall dairy farms.", 30th Western Canadian Dairy Seminar (WCDS), Capri Centre, Red Deer, AB, Canada, March 6-9, 2012.

Solano, L., Barkema, H.W., Pajor, E., Mason, S., de Passillé, A.M.B., Rushen, J.P., Gibbons, J., Vasseur, E., Krom, M., and Orsel, K. (2012). "Lameness in dairy cows: using gait score as a predictor for claw lesions.", 30th Western Canadian Dairy Seminar (WCDS), Capri Centre, Red Deer, AB, Canada, March 6-9, 2012.

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Vasseur, E., de Passillé, A.M.B., and Rushen, J.P. (2011). "Automated monitoring of lying time in dairy cows : on-farm sampling of animals based on individual differences.", 5th International Conference on the Assessment of Animal Welfare at Farm and Group Level, University of Guelph, Guelph, ON, Canada, August 8-11, 2011. (Poster)

Rushen, J.P., Chapinal, N., and de Passillé, A.M.B. (2011). "Automated monitoring of animal welfare indicators.", 5th International Conference on the Assessment of Animal Welfare at Farm and Group Level, University of Guelph, Guelph, ON, Canada, August 8-11, 2011.

Chapinal, N., Miglior, F., Sewalem, A., de Passillé, A.M.B., Rushen, J.P., von Keyserlingk, M.A.G., and Weary, D.M. (2011). "Estimation of genetic parameters for gait in Canadian Holstein cows.", 2011 Joint Annual Meeting of the ADSA-ASAS, New Orleans, LA, USA, July 10-14, 2011. (Presentation)

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Research Publications:

2014

Debnath, S.C. (2014). "Molecular markers in biodiversity of *Vaccinium* and *Rubus* wild germplasm.", *Acta Horticulturae (ISHS)*, 1017, pp. 85-92.

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Other Science Related Publications:

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Debnath, S.C. (2013). "Le formidable potentiel des petits fruits et des plantes médicinales.", Entomological Society of Canada 2012 Annual Meeting, Coast Edmonton Plaza Hotel, Edmonton, AB, Canada, November 3-7, 2012. (Poster)

Debnath, S.C. (2013). Raspberry development project: field evaluation under organic farming condition Research Project (RBPI No. 1629) Final Report 2006-2013., AAFC Science and Technology Branch. (Report)

Debnath, S.C. (2013). "Lingonberry: characterization and preserving an emerging bioresource for Canada.", Knowledge and Technology Transfer presentation, St. John's, NL, Canada, August 01, 2013. (Presentation)

Debnath, S.C. (2013). "Propagation of small fruits through tissue culture.", Entomological Society of Canada 2012 Annual Meeting, Coast Edmonton Plaza Hotel, Edmonton, AB, Canada, November 3-7, 2012. (Poster)

Debnath, S.C. (2013). "Developing innovative technologies to accelerate industry transition from "wild" to cultivated cool climate berry crop production systems.", Knowledge and Technology Transfer presentation, St. John's, NL, Canada, August 01, 2013. (Presentation)

Debnath, S.C. (2013). "Making blueberry plant that packs a healthy punch.", *E3S Web of Conferences*, August(12), pp. A3. (Newsletter)

Debnath, S.C. (2013). "Berry and medicinal plant improvement using *in vitro* and molecular techniques combined with conventional techniques.", Biosyst EU 2013. 2nd meeting of the Federation of European Biological Systematic Societies, University of Vienna, Vienna, Austria, February 18-22, 2013. (Poster)

Debnath, S.C. (2013). Blueberry development program: evaluation and selection under field condition Research Project (RBPI No. 2886) Annual Report 2012-2013, AAFC Science and Technology Branch. (Report)

Debnath, S.C. (2013). Crop production and protection in developing a cool climate berry crop production system Research Project (RBPI No. 1252) Final Report 2009-2013., AAFC Science and Technology Branch. (Report)

Goyali, J.C., Igamberdiev, A.U., and Debnath, S.C. (2013). "Changes in fruit morphology and its phytochemical properties of lowbush blueberry (*Vaccinium angustifolium* Ait.) during *in vitro* propagation.", Entomological Society of British Columbia, 2013 Annual Meeting, Pacific Forestry Centre, Victoria, B.C., Canada, November 1-2, 2013, Oral presentation. Abstract 37. (Abstract)

Debnath, S.C. (2013). "Germplasm characterization, propagation and maintenance of health-promoting wild berries and medicinal plant roseroot (*Rhodiola rosea* L.).", Keystone Symposia: The Gut Microbiome: The Effector/Regulatory Immune Network (B3), Taos, New Mexico, USA, February 10-15, 2013, Invited presentation. (Abstract)

Debnath, S.C. (2013). "Propagation strategies and biotechnological advances in health promoting berry crops.", Biology Graduate Student Association Symposium, Memorial University of Newfoundland, St. John's, NL, Canada, March 15, 2013.

Debnath, S.C. (2013). "Berry and medicinal plant improvement using *in vitro* and molecular techniques combined with conventional techniques.", Newfoundland and Labrador Federation of Agriculture (NLFA) 2013 Annual General Meeting and Workshop, Hotel Gander, Gander, NL, Canada, January 23-24, 2013. (Poster)

Debnath, S.C. (2013). "Propagation strategies and biotechnological advances in health promoting berry crops.", Biology Graduate Student Association Symposium, Memorial University of Newfoundland, St. John's, NL, Canada, February 15, 2013, Invited Speaker.

Goyali, J.C., Igamberdiev, A.U., and Debnath, S.C. (2013). "Does *in vitro* propagation influence antioxidant properties of lowbush blueberry (*Vaccinium angustifolium* Ait.)?", Entomological Society of America (ESA) 61st Annual Meeting, Austin Convention Center, Austin, TX, USA, November 10-13, 2013, Oral presentation.

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An, D., Bykova, N.V., and Debnath, S.C. (2012). "Identifying wild and cultivated cranberries and evaluating their relationships using morphology, and EST-PCR and ISSR markers.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, P1 Abstract Id 3764, pp. p.44.

Debnath, S.C. (2012). "Molecular markers in biodiversity of *Vaccinium* and *Rubus* wild germplasm.", 10th International Symposium on *Vaccinium* and Other Superfruits, Maastricht, Limburg, The Netherlands, June 17-22, 2012. (Poster)

Debnath, S.C. (2012). "Strategies to propagate *Vaccinium* nuclear stock and use of molecular markers for clonal fidelity.", 10th International Symposium on *Vaccinium* and Other Superfruits, Maastricht, Limburg, The Netherlands, June 17-22, 2012. (Poster)

Debnath, S.C. (2012). "Molecular markers for genetic fidelity during *in vitro* propagation of berry crops.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, E2.2, ID.3822, pp. 42. (Abstract)

Goyali, J.C., Igamberdiev, A.U., and Debnath, S.C. (2012). "Morphology, phenolic content and antioxidant capacity of lowbush blueberry (*Vaccinium angustifolium* Ait.) plants as affected by *in vitro* and *ex vitro* propagation methods.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, C1.2, ID.3760, pp. 26. (Abstract)

Vyas, P., Debnath, S.C., and Igamberdiev, A.U. (2012). "Metabolism of glutathione and ascorbate and its relation to antioxidant and morphological properties of lingonberry cultivars propagated *in vitro* and *ex vitro*.", 5th Annual Biology Graduate Students Symposium, Memorial University of Newfoundland, St. John's, NL, Canada, April 19, 2012.

Debnath, S.C. (2012). "Development of small fruits suitable for cultivation in cool climates.", 54th Annual Farm Field Day, AAFC, St. John's, NL, Canada, August 11, 2012.

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Debnath, S.C. (2012). "Propagation of small fruits through tissue culture.", 54th Annual Farm Field Day, AAFC, St. John's, NL, Canada, August 11, 2012. (Poster)

Debnath, S.C. (2012). "Berry and medicinal plant improvement using *in vitro* and molecular techniques combined with conventional breeding.", Newfoundland and Labrador Symposium: Our Food, Our Future, Growing the Agriculture Industry in Newfoundland and Labrador, Corner Brook, NL, Canada, November 23, 2012, pp. 11-12.

Debnath, S.C., Kempler, C., Jamieson, A.R., and Khanizadeh, S. (2012). "Growth and development of raspberry as affected by *in vitro* and *ex vitro* propagation methods.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, E2.4 Abstract Id 3832, pp. 43. (Abstract)

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Debnath, S.C. (2011). "Berry and medicinal plant improvement using *in vitro* and molecular techniques combined with conventional breeding.", Newfoundland and Labrador Federation of Agriculture (NLFA) 2011 Annual General Meeting, Gander, NL, Canada, March 17-18, 2011. (Poster)

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Research Publications:

2014

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Other Science Related Publications:

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Research Publications:

2013

DeLong, J.M., Hodges, D.M., Prange, R.K., Forney, C.F., Fan, L., Bishop, M.C., Elliot, M.L., Jordan, M.A., and Doucette, C. (2013). "The influence of cold water storage on fatty acids, antioxidant content and activity, and microbial load in ostrich fern (*Matteuccia struthiopteris*) fiddleheads.", *Canadian Journal of Plant Science*, 93(4), pp. 683-697. doi : 10.4141/cjps2012-165

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Research Publications:

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Research Publications:

2014

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Research Publications:

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2013

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Mehdi, T., Narvaez-Bravo, C., Weese, J.S., Deckert, A., Smith, R.R., Diarra, M.S., and Aslam, M. (2013). "Prevalence and Characterization of Methicillin-Resistant *Staphylococcus aureus* Isolated from Commercial Pork Processing Plants in Alberta, Canada.", Annual meeting of International Association for Food Protection, Charlotte, North Carolina, USA, July 28-31, 2013. (Poster)

Lewis, C.T., Chen, W., Zhang, N., El-Kayssi, N., Fung, S., Diarra, M.S., Bilkhu, S., Hambleton, S., and Lévesque, C.A. (2013). "Developing an integrated bioinformatics platform to support real-time monitoring of agricultural environments.", 21st Annual Conference of Intelligent Systems for Molecular Biology (ISMB) and European Conference on Computational Biology (ECCB), Berlin, Germany, July 19-23, 2013.

Simmons, K., Rempel, H., Block, G.S., Delaquis, P.J., Topp, E., and Diarra, M.S. (2013). "Identification and prevalence of *Escherichia fergusonii* in broiler chickens.", 102nd IAFP Meeting, Charlotte, North Carolina, USA, July 28-31, 2013.

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Goubé, M.A., Diarra, M.S., and Fliss, I. (2013). "Potentiel antimicrobien d'extrait de canneberge contre *Salmonella*", La 4e rencontre annuelle de l'Association québécoise pour l'innocuité alimentaire (AQIA): La gestion de la qualité, un défi récurrent, Lévis, Quebec, Canada, 19 septembre 2013, Award winner. (Poster)

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Côté-Gravel, J., Ster, C., Allard, M., Gagnon, S., Boulanger, S., Mulhbachter, J., Lafontaine, D.A., Scholl, D., Diarra, M.S., Lacasse, P., and Malouin, F. (2012). "Mise en évidence des gènes utilisés par *Staphylococcus aureus* pendant l'infection intra-mammaire et utilisation de ceux-ci comme cibles thérapeutiques: développement d'une nouvelle classe d'antibiotique et d'un vaccin contre *S. aureus* pour le contrôle de la mammite bovine.", Forum Technologique NOVALAIT / IDF Dairy Science and Technology Week 2012, Hôtel et Suites Le Dauphin, Drummondville, QC, Canada, May 29, 2012.

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Ster, C., Diarra, M.S., Lacasse, P., Talbot, B.G., and Malouin, F. (2010). "Cyclic Diguanylate: A New Tool for the Control of *Staphylococcus aureus* induced Bovine Mastitis?", 5th IDF Mastitis conference, Christchurch Convention Centre, Christchurch, New Zealand, March 21-24, 2010, pp. 291-294.

Rempel, H., Champagne, J., Masson, L., Pritchard, J., Topp, E., and Diarra, M.S. (2010). "DNA-Microarray for Molecular Characterization of *Enterococcus* isolates from broiler chicken.", 110th General Meeting of American Society for Microbiology (ASM2010), Town & Country Convention Center, San Diego, CA, USA, May 23-27, 2010. (Poster)

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Diarra, M.S. (2010). "Virulence and antibiotic resistance genes among *Escherichia coli* from broiler chickens: Potential emergency of zoonotic strains.", Seminar series of the Agassiz's Pacific Agri-Food Research Center, Agassiz, BC, December 1, 2010. (Presentation)

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Diarra, M.S., Kobylarz, M., Allard, M., Rempel, H., Brouillette, É., Lacasse, P., and Malouin, F. (2010). "In Vitro Expression of some Heme Related Genes in *Staphylococcus aureus* mutants.", 110th General Meeting of American Society for Microbiology (ASM2010), Town & Country Convention Center, San Diego, CA, USA, May 23-27, 2010. (Poster)

Aslam, M., Bohaychuk, V.M., Diarra, M.S., and Masson, L. (2010). "Characterization antimicrobial resistance in *Enterococcus* spp. Recovered from retail meat samples collected from Alberta.", 90th Annual Conference of the Canadian Meat Council, Fairmont Empress Victoria Conference Centre, Victoria, BC, Canada, May 5-7, 2010. (Poster)

Forgetta, V., Rempel, H., Dewar, K., and Diarra, M.S. (2010). "Genomic Characterization of an *Escherichia coli* Isolated from Broiler Chickens.", 48th Annual Meeting of Infectious Diseases Society of America (IDSA), Vancouver, BC, Canada, October 21-24, 2010.

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Furtula, V., Diarra, M.S., Diarrassouba, F., Rempel, H., Pritchard, J., and Wrona, F. (2009). "Antimicrobial residues and resistance patterns of *Escherichia coli* isolated from broiler litters prior land application.", 5th International Poultry Conference, Taba, Egypt, March 10-13, 2009.

Aslam, M., Service, C., Rempel, H., and Diarra, M.S. (2009). "Analysis of Antimicrobial Resistance in *Enterococcus* spp. Recovered from a Commercial Beef Processing Plant.", 96th Annual Meeting of the International Association of Food Protection, Grapevine, TX, USA, July 12-15, 2009. (Abstract)

Malouin, F., Lefebvre, B., Pruneau, M., and Diarra, M.S. (2009). "Multiple antibiotic resistance and hypermutability in *Escherichia coli* O157 and Non-O157 isolates harboring atypical virulence genes.", 49th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) of American Society for Microbiology, San Francisco, CA, USA, September 12-15, 2009. (Poster)

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Delaquis, P.J., Bach, S.J., LeBlanc, D.I., Brassard, J., Houde, A., Villeneuve, S., Bezanson, G.S., Diarra, M.S., Topp, E., Blais, B., Gajadhar, A., Bisaillon, J.-R., Fazil, A.M., Gilmour, M., Mattison, K., and Bidawid, S. (2009). "A systems-based approach for the assessment of microbiological threats to the food supply.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Presentation)

Aslam, M., Bohaychuk, V.M., Checkley, S.L., Diarra, M.S., Reid-Smith, R., and Avery, B. (2009). "Characterization of antimicrobial resistance in *E. coli*, enterococci and *Salmonella* from retail meats in Alberta.", 89th Annual Conference of the Canadian Meat Council, Fairmont Queen Elizabeth Hotel, Montréal, QC, Canada, May 6-8, 2009. (Abstract)

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Diarra, M.S. and Rempel, H. (2008). "Antibacterial and immuno-stimulatory activities of Cranberry Extracts against *Staphylococcus aureus*.", 2008 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Delta Prince Edward Hotel, Charlottetown, PEI, Canada, May 25-27, 2008. (Abstract)

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Diarra, M.S., Diarrassouba, F., Rempel, H., Brousseau, R., Masson, L., Bonnet, C., Pritchard, J., Delaquis, P.J., Bach, S.J., Topp, E., and Skura, B.J. (2008). "DNA-microarray analyses of antimicrobial resistance and virulence genes of *Escherichia coli* O7 isolates from healthy broiler chickens.", Joint Meeting of 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC™) and 46th Annual Meeting of the Infectious Diseases Society of America, Washington, DC, USA, October 25-28, 2008. (Abstract)

Thibodeau, A., Quessy, S., Guévremont, É., Houde, A., Topp, E., Diarra, M.S., and Letellier, A. (2008). "Utilisation de bacitracine et virginiamycine comme promoteurs de croissance chez les poulets de grill : Effet sur la performance et l'antibiorésistance.", 4e Colloque international francophone de microbiologie animale, 4e rencontre internationale de l'industrie vétérinaire « Innovet 2008 », 2e Symposium du Centre de recherche en infectiologie porcine (CRIP), Hôtel des Seigneurs, Saint-Hyacinthe, QC, Canada, September 21-24, 2008. (Abstract)

Aslam, M., Bedie, G.K., Bohaychuk, V.M., Checkley, S.L., Diarra, M.S., Reid-Smith, R., and Avery, B. (2008). "The prevalence of antimicrobial resistance in *Escherichia coli* and enterococci from retail meat samples collected from Alberta.", Annual Canadian Meat Science Association (CMSA) Meeting, Niagara Falls, ON, Canada, May 7-9, 2008. (Abstract)

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Hernandez, C., Neufeld, J.D., Diarra, M.S., Marziali, A., and Dewar, K. (2008). "SCODA: Purifying DNA from difficult samples for massively parallel sequencing.", DNA Vaccines 2008 Conference, Las Vegas, NV, USA, December 9-11, 2008. (Abstract)

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Diarra, M.S. (2008). "Escherichia coli in Soil Fertilised with Chicken Manure.", 108th General Meeting of American Society for Microbiology, Boston, MA, USA, June 1-5, 2008.

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Allard, M., Ster, C., St-James, L., Lacasse, P., Diarra, M.S., Jacob, C.L., and Malouin, F. (2007). "Transcriptomic analysis of in vivo-expressed genes in *Staphylococcus aureus* during bovine mastitis.", 2007 CBMRN Annual Scientific Meeting, Holiday Inn Montréal Airport, Montréal, QC, Canada, November 12-13, 2007. (Abstract)

Lefebvre, B., Malouin, F., Moisan, H., Fairbrother, J.M., Nadeau, É., Dubois Jr., M., and Diarra, M.S. (2007). "Phenotype and genotype characterizations of bovine and human *Escherichia coli* O157.", 11th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Delta Winnipeg Hotel, Winnipeg, MB, Canada, October 17-19, 2007. (Abstract)

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Research Publications:

2014

Soto-Cerda, B.J., Duguid, S.D., Booker, H.M., Rowland, G.G., Diederichsen, A., and Cloutier, S. (2014). "Genomic regions underlying agronomic traits in linseed (*Linum usitatissimum* L.) as revealed by association mapping.", *Journal of Integrative Plant Biology (JIPB)*, 56(1), pp. 75-87. doi : 10.1111/jipb.12118

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Diederichsen, A. (2008). "Future involvement of the Global Crop Diversity Trust in oat germplasm work and opportunities for funding.", Meeting of the Global Oat Diversity Network, Minneapolis Radisson Hotel, Minneapolis, MN, USA, July 2, 2008 July 2, 2008. (Presentation)

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Research Publications:

2009

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2008

Auld, R., Dixon, P.L., and Colbo, M. (2008). "Which Grass is Greener? Host preference in hairy chinch bug *Blissus leucopterus hirtus* Montandon (Blissidae).", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008. (Abstract)

Auld, R., Dixon, P.L., and Colbo, M. (2008). "Which Grass is Greener? Host preference in hairy chinch bug *Blissus leucopterus hirtus* Montandon (Hemiptera Blissidae).", 68th Annual Meeting of the Acadian Entomological Society, Battery Hotel and Suites St. John's, St. John's, NL, Canada, June 15-17, 2008. (Abstract)

Auld, R., Dixon, P.L., and Colbo, M. (2008). "Which Grass is Greener? Host preference in hairy chinch bug *Blissus leucopterus hirtus* Montandon (Hemiptera Blissidae).", 2008 National Turfgrass Entomology Workshop, Gainesville, FL, USA, October 27-28, 2008. (Abstract)

Soroka, J.J., Dixon, P.L., and Grenkow, L.F. (2008). "Relay Cropping for Control of Root Maggots *Delia* spp. (Diptera: Anthomyiidae): Preliminary Prairie Investigation.", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008, pp. 69. (Abstract)

Squires, S., Hermanutz, L., and Dixon, P.L. (2008). "Negative impacts of a non-native, agricultural pest, the Diamondback moth, on two rare and endangered Brassicaceae species.", 21st Annual Meeting of the Society for Conservation Biology, Nelson Mandela Metropolitan University Summerstrand South Campus, Port Elizabeth, South Africa, July 1-5, 2007. (Abstract)

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Dixon, P.L. (2008). Biological control of soil insect pests in field crops. Proposal submitted to the Risk Reduction Program of the Pest Management Centre, AAFC-AAC. (Report)

Dixon, P.L. (2008). Report and recommendations on an Animal and Plant Health Inspection Service (APHIS) Petition for Introduction of a Biological Control Agent (*Cephalonomia stephanoderis* (Bethylidae) against the coffee berry borer, *Hypothenemus hampei* (Curculionidae) in Puerto Rico. (Report)

Hudson, N., Knight, S., and Dixon, P.L. (2008). "Vacuum Treatment Alternative to Chemical Pesticide for Chinch Bug Control.", 68th Annual Meeting of the Acadian Entomological Society, Battery Hotel and Suites St. John's, St. John's, NL, Canada, June 15-17, 2008. (Abstract)

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Hermanutz, L., Squires, S., Robinson, J.A., Nicholls, W., Bell, T., and Dixon, P.L. (2007). Managing endangered limestone barrens plants for long-term persistence. Report for the Endangered Species Recovery Fund. World Wildlife Fund, Toronto. (Report)

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Research Publications:

2014

Peters, R.D., Al-Mughrabi, K.I., Kalischuk, M.L., Dobinson, K.F., Conn, K.L., Alkher, H.A., Islam, M.R., Daayf, F., Lynn, J., Bizimungu, B., De Koeber, D.L., Lévesque, A., and Kawchuk, L.M. (2014). "Characterization of *Phytophthora infestans* population diversity in Canada reveals increased migration and genotype recombination.", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2014.892900

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Other Science Related Publications:

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Islam, M.R., Alkher, H.A., Bezzahou, M., Godee, C., Adam, L.R., Kawchuk, L.M., Dobinson, K.F., Conn, K.L., Peters, R.D., Al-Mughrabi, K.I., Shinnars-Carnelley, T., and Daayf, F. (2013). "Diversity in population structure of late blight pathogen, *P.infestans* in Manitoba.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

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Dobinson, K.F., Conn, K.L., Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., and Daayf, F. (2012). "Characterization of *Phytophthora infestans* (Mont.) de Bary from tomato in southwestern Ontario.", Canadian Phytopathological Society (CPS) 83rd Annual Meeting and International PPV Meeting, Marriott Gateway On The Falls, Niagara Falls, ON, Canada, June 24-27, 2012.

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Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., Conn, G., Dobinson, K.F., and Daayf, F. (2012). "Distribution of genotypes of *Phytophthora infestans* isolated from potato and tomato in Canada in 2011.", American Phytopathological Society (APS) 2012 Annual Meeting, Westin Providence, Providence, RI, USA, August 4-8, 2012.

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2008

Kalinina, A., Chapman, R.A., Cuppels, D.A., Zoina, A., Dobinson, K.F., and Brown, D.C.W. (2008). "Approaches for genetic transformation of peach.", 50th Annual Meeting of the Canadian Society of Plant Physiologists (CSPP/SCPV 2008), University of Ottawa/Université d'Ottawa, Ottawa, ON, Canada, June 14-17, 2008.

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Research Publications:

2014

Donly, B.C., Theilmann, D.A., Hegedus, D.D., Baldwin, D., and Erlandson, M.A. (2014). "Mamestra configurata nucleopolyhedrovirus-A transcriptome from infected host midgut.", *Virus Genes*, 48(1), pp. 174-183. doi : 10.1007/s11262-013-0986-z

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McCarthy, C.B., Theilmann, D.A., and Donly, B.C. (2008). "AcMNPV ac143(odv-e18), a core gene that forms a cluster with ac142, is essential and mediates BV production.", 41st Annual Meeting of the Society for Invertebrate Pathology and 9th International Conference on *Bacillus thuringiensis*, University of Warwick, Coventry, UK, August 3-7, 2008. (Abstract)

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Research Publications:

2013

Gruyer, N., Dorais, M., Alsanius, B.W., and Zagury, G.J. (2013). "Use of a passive bioreactor to reduce water-borne plant pathogens, nitrate, and sulfate in greenhouse effluent.", *Journal of Environmental Science and Health, Part A: Toxic Hazardous Substances & Environmental Engineering*, 48(13), pp. 1740-1747. doi : 10.1080/10934529.2013.815569

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Aberkani, K., Hao, X.M., de Halleux, D., Papadopoulos, A.P., Dorais, M., and Vineberg, S. (2011). "Energy saving achieved by retractable liquid foam between double polyethylene films covering greenhouses.", *Transactions of the ASABE*, 54(1), pp. 275-284.

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Dorais, M., Pepin, S., and Ménard, C. (2013). "Impact of biochar soil amendment on greenhouse tomato grown in six types of soil.", 2nd ISHS Symposium on Organic Greenhouse Horticulture, Avignon, France, October 28-31, 2013.

Bolduc, M., Dorais, M., Antoun, H., and Rochette, P. (2013). Does biochar improve wetland efficiency to treat organic and conventional greenhouse effluents?.

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Pepin, S., Dorais, M., Ménard, C., Bacon, R., Fortier, É., and Béchard-Dubé, S.-A. (2013). "Beneficial effects of using 3-D LED interlighting system for tomato: winter vs summer seasons.", 2nd ISHS Symposium on Organic Greenhouse Horticulture, Avignon, France, October 28-31, 2013.

Méhot, J., de Halleux, D., and Dorais, M. (2013). "Potential Assessment of Growth and Yield of Greenhouse Grown organic tomato using a Geothermal System.", Greensys2013 New Technologies for Environment Control, Energy-saving and Crop Production in Greenhouse and Plant Factory, Jeju, South Korea, September 22-27, 2013. (Abstract)

Ouertani, S., Dorais, M., Antoun, H., and Pepin, S. (2013). "Effet de l'ajout du biochar sur les microorganismes des marais filtrants artificiels traitant des effluents de serre.", Journée annuel du Centre e recherche en Horticulture 2013, Université Laval, Sainte-Foy, QC, Canada, May 23, 2013.

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Vallières, M., de Halleux, D., and Dorais, M. (2013). "Comparison of Two Cooling and Dehumidifying Methods for a Semi-Closed Organic Tomato Greenhouse.", Greensys2013 New Technologies for Environment Control, Energy-saving and Crop Production in Greenhouse and Plant Factory, Jeju, South Korea, September 22-27, 2013. (Abstract)

Dorais, M. (2013). "Grappe agroscientifique du Canada sur les Productions biologiques : Cultures sous abris.", La semaine Horticole 2013, Maison de l'UPA, Longueuil, QC, Canada, February 12, 2013.

2012

Gruyer, N., Dorais, M., Zagury, G.J., and Alsanus, B.W. (2012). "A Passive Biological Approach to Remove Plant Pathogens from an Organic Greenhouse Effluent.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012, G7, pp. 96. (Poster)

Vallières, M., Dorais, M., de Halleux, D., and Rondeau, M.-H. (2012). "Comparison of Two Cooling and Dehumidifying Methods for a Semi-Closed Organic Tomato Greenhouse.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012.

Gravel, V., Dorais, M., and Ménard, C. (2012). "Organic Production of Vegetable and Herb Transplants.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012, G5, pp. 94. (Poster)

Gravel, V., Dorais, M., and Ménard, C. (2012). "Organic Fertilization and its Effect on Development of Sweet Pepper Transplants.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012, G4, pp. 93. (Poster)

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Gruyer, N., Dorais, M., Alsanus, B.W., and Zagury, G.J. (2012). "The Use of Passive Bioreactors to Simultaneously Remove NO₃, SO₄ and Plant Pathogens from Organic Greenhouse Effluent.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012, G10, pp. 99. (Poster)

Gravel, V., Dorais, M., Ménard, C., and Pépin, S. (2012). "Soil Oxygen Enrichment in Organically-grown Greenhouse Tomato.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012, G8, pp. 97. (Poster)

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Dorais, M., Gaudreau, L., Bordeleau, M., Gosselin, A., Medina, Y., Gauthier, L., Desjardins, Y., and Khanizadeh, S. (2012). "High Tunnel Production of Organic Raspberries.", Canadian Organic Science Conference and Organic Science Cluster Strategic Meetings, University of Manitoba, Winnipeg, MB, Canada, February 21-23, 2012. (Poster)

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Foroutan, A., Stothard, P., Grant, J., Paradis, F., Guan, L.L., Dugan, M.E.R., McAllister, T.A., Basu, U., McLean, K.L., and Fitzsimmons, C.J. (2014). "Transcriptional analysis in Longissimus thoracis muscle, subcutaneous and kidney fat of cattle fed diets with supplemental flaxseed.", XXII Plant & Animal Genome Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2014.

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Research Publications:

2014

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Research Publications:

2014

Iroba, K., Tabil, L.G., Sokhansanj, S., and Dumonceaux, T.J. (2014). "Pretreatment and fractionation of barley straw using steam explosion at low severity factor.", *Biomass and Bioenergy*. doi : 10.1016/j.biombioe.2014.02.002

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Duynisveld, John L., M.Sc.

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Research Publications:

2012

Papadopoulos, Y.A., McElroy, M.S., Fillmore, S.A.E., McRae, K.B., Duynisveld, J.L., and Fredeen, A.H. (2012). "Sward complexity and grass species composition affects the performance of grass-white clover pasture mixtures.", *Canadian Journal of Plant Science*, 92(6), pp. 1199-1205. doi : 10.4141/cjps2012-015

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Research Publications:

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Edwards, L.M. (2013). "The effects of soil freeze-thaw on soil aggregate breakdown and concomitant sediment flow in Prince Edward Island: A review.", *Canadian Journal of Soil Science*. doi : 10.4141/cjss2012-059

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Edwards, L.M. (2008). "Preparing Potatoes for Climate Change.", *Spud Smart, Winter 2009*, pp. 16-18.

Ehret, David L., Ph.D.

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Research Publications:

2013

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Papadopoulos, A.P., Ehret, D.L., Dorais, M., Hao, X.M., Lin, W.-C., and Khosla, S. (2007). Oxygenated nutrient solutions to super-saturation levels. 1st Interim Research Project Report. (Report)

Papadopoulos, A.P., Hao, X.M., Ehret, D.L., Lin, W.-C., and Khosla, S. (2007). Integrated systems for the production of organic greenhouse vegetables. 1st Interim Research Project Report. (Report)

Neilsen, G.H., Lowery, D.T., Forge, T.A., Neilsen, D., and Ehret, D.L. (2007). "Organic fruit production: Managing reality and perception.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 87, SF1-2. (Abstract)

Papadopoulos, A.P., Ehret, D.L., Hao, X.M., Khosla, S., and Martynenko, A. (2007). Influence of energy curtains on leaf temperature and plant morphology in greenhouse peppers. 1st Interim Research Project Report. (Report)

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Research Publications:

2014

Helgason, B.L., Gregorich, E.G., Janzen, H.H., Ellert, B.H., Lorenz, N., and Dick, R.P. (2014). "Long-term microbial retention of residue C is site-specific and depends on residue placement.", *Soil Biology & Biochemistry*, 68, pp. 231-240. doi : 10.1016/j.soilbio.2013.10.002

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Research Publications:

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Robitaille, G., Choinière, S., Ells, T.C., Deschênes, L., and Mafu, A.A. (2014). "Attachment of *Listeria innocua* to Polystyrene: Effects of Ionic Strength and Conditioning Films from Culture Media and Milk Proteins.", *Journal of Food Protection*, 77(3), pp. 427-434.

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Research Publications:

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Research Publications:

2014

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Research Publications:

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Research Publications:

2014

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Research Publications:

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Quesnel, H., Farmer, C., and Foisnet, A. (2011). "Relations between sow hormonal concentrations around parturition and colostrum yield.", 7th International Congress on Farm Animal Endocrinology (ICFAE 2011), Bern, Switzerland, August 24-26, 2011, pp. 69.

Phillips, C.E., Li, Y.Z., Johnston, L.J., Shurson, G.C., Deen, J., and Farmer, C. (2011). "Association of sow fear with prolactin and cortisol concentrations preand post-farrowing.", ADSA-PSA-AMPA-CSAS-ASAS 2011 Joint Annual Meeting, New Orleans, LA, USA, July 11-14, 2011, Published in: *J. Anim. Sci.*, 89(E-Suppl. 1), pp. 12.

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de Ridder, K.A.G., de Lange, C.F.M., Farmer, C., Shoveller, A.K., and Luimes, P.H. (2008). "Plasma prolactin and insulin concentrations in lactating sows following venous infusion of isoleucine, leucine, lysine, threonine, and valine.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, No. PC21. (Poster)

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Research Publications:

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Weschenfelder, A.V., Maldague, X., Rocha, L.M., Schaefer, A.L., Saucier, L., and Faucitano, L. (2014). "The use of infrared thermography for pork quality prediction.", *Meat Science*, 96(1), pp. 120. doi : 10.1016/j.meatsci.2013.05.047 (Abstract)

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2012

Faucitano, L. (2012). "New handling and transportation strategies under Canadian conditions.", 12th London Swine Conference, London, ON, Canada, March 28-29, 2012, pp. 121-128.

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Faucitano, L. (2012). "Pre-slaughter stress and pork quality.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012, Published in: *J. Anim. Sci.*, 90(Suppl. 3), pp. 662.

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Research Publications:

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Research Publications:

2013

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Research Publications:

2014

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Tekauz, A., Turkington, T.K., and Savard, M.E. (2014). "AAC Synergy barley.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-307

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Mitchell Fetch, J.W., Kibite, S., Clayton, G.W., Turkington, T.K., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., and Ames, N.P. (2009). "Lu Oat.", *Canadian Journal of Plant Science*, 89(4), pp. 671-675. doi : 10.4141/CJPS08193

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Other Science Related Publications:

2013

Singh, A., DePauw, R.M., Knox, R.E., Cuthbert, R.D., Singh, A.K., Singh, D., Bhavani, S., Fetch Jr., T.G., and Campbell, H.L. (2013). "Identification and mapping of genetic factors controlling stem rust resistance in spring wheat and the study of their epistatic interactions across multiple environments.", 5th BGRI Workshop, New Delhi, India, August 19-22, 2013.

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Kassa, M.T., Hiebert, C.W., You, F.M., Jordan, M.C., Fobert, P., Sharpe, A.G., Pozniak, C.J., Zegeye, T., Fetch Jr., T.G., Menzies, J.G., Humphreys, D.G., and McCartney, C.A. (2013). "Molecular Diagnosis of SrCad and Sr42 resistance genes.", North American Cereal Rust Workers Meeting, Winnipeg, MB, Canada, March 20, 2013.

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Zhang, B.L., Chi, D., Cao, W., Xue, A.G., Fetch Jr., T.G., Hiebert, C.W., and Fedak, G. (2013). "Pyramiding disease resistance genes in wheat.", 7th International Triticeae Symposium, Chengdu, China, June 9-14, 2013, pp. 90.

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Hodson, D.P., Nazari, K., Park, R.F., Fetch Jr., T.G., Lassen, P., Arista, J., Hansen, J.L., Hovmoller, M., Jin, Y., Pretorius, Z.A., and Sonder, K. (2011). "Putting Ug99 on the map: An update on current and future monitoring.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, pp. 3-13.

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Wang, X., McCallum, B.D., Fetch Jr., T.G., Bakkeren, G., and Saville, B. (2011). "Leaf extracts from Thatcher wheat inoculated with the avirulent race of *Puccinia triticina* confers race-specific resistance in Thatcher-Lr2a through infiltration.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011, pp. 65.

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Research Publications:

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Other Science Related Publications:

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Vafaie, E., Fitzpatrick, S.M., and Cory, J.S. (2011). "The influence of natal host on the fecundity of the parasitoid, *Praon unicum*, on the blueberry aphid, *Ericaphis fimbriata*.", Entomological Society of British Columbia 2011 Annual General Meeting, Abbotsford, BC, Canada, October 14, 2011.

Fitzpatrick, S.M., Peach, D.A.H., Gries, R., Khaskin, G., Iwanski, J., and Gries, G. (2011). "Identifying the sex pheromone of cranberry tipworm (*Dasineura oxycoccana*).", North American Cranberry Research and Extension Workers Conference (NACREW) 2011, Wisconsin Dells, WI, USA, September 11-14, 2011.

Mathur, S., Cook, M.A., Sinclair, B.J., and Fitzpatrick, S.M. (2011). "DNA barcodes suggest cryptic speciation in *Dasineura oxycoccana* (Diptera: Cecidomyiidae) on cranberry and blueberry in British Columbia.", North American Cranberry Research and Extension Workers Conference (NACREW) 2011, Wisconsin Dells, WI, USA, September 11-14, 2011.

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Sabaratnam, S., Dicarlo, A., Fitzpatrick, S.M., and Forge, T.A. (2008). "Cranberry Dieback Disorder: a new and emerging threat to cranberry production in British Columbia.", International Society for Horticultural Science (ISHS) 9th International Conference on Vaccinium, Oregon State University, Corvallis, OR, USA, July 13-16, 2008. (Poster)

Lepik, K., Wellington, S., Wellington, M., and Fitzpatrick, S.M. (2008). "William Wellington 1920-2008. Obituary and tribute.", *Bulletin of the Entomological Society of Canada*, 41(1), pp. 28-30.

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Research Publications:

2013

Xiang, R., Ghanipour-Samami, M., Johns, W.H., Eindorf, T., Rutley, D.L., Kruk, Z.A., Fitzsimmons, C.J., Thomsen, D.A., Roberts, C.T., Burns, B.M., Anderson, G.I., Greenwood, P.L., and Hiendleder, S. (2013). "Maternal and Paternal Genomes Differentially Affect Myofibre Characteristics and Muscle Weights of Bovine Fetuses at Midgestation.", *PLoS ONE*, 8(1), Article No. e53402. doi : 10.1371/journal.pone.0053402

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2013

Chen, L., Vinsky, M.D., Ekine, C., Basarab, J.A., Aalhus, J.L., Dugan, M.E.R., Curtis, J.M., Fitzsimmons, C.J., Buchanan, F.C., Stothard, P., Liao, X.J., Wang, Z., Okine, E.K., and Li, C. (2013). "Genome-wide identification of single nucleotide polymorphisms associated with fatty acids in beef cattle.", Livestock Gentec Conference, Edmonton, Canada, October, 2013. (Abstract)

Foroutan, A., Stothard, P., Grant, J., Paradis, F., Guan, L.L., Dugan, M.E.R., Basu, U., McLean, K.L., and Fitzsimmons, C.J. (2013). "Transcriptional analysis in Longissimus dorsi muscle and subcutaneous fat of the cattle fed diets with supplemental flaxseed.", Livestock Gentec Conference, Edmonton, Canada, October, 2013. (Abstract)

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Thompson, S., Ullenboom, T.R., Crow, G.H., Basarab, J.A., Wittenberg, K.M., Baron, V.S., Fitzsimmons, C.J., and Ominski, K.H. (2013). "Repeated measures of residual feed intake in growing beef bulls fed forage and grainbased diets.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P13, pp. 29. (Poster)

Thompson, S., Schaefer, A.L., Crow, G.H., Basarab, J.A., Colyn, J.J., Wittenberg, K.M., Baron, V.S., Fitzsimmons, C.J., and Ominski, K.H. (2013). "Predicting residual feed intake in beef bulls by measuring radiated heat loss through infrared thermography.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, O20-GS, pp. 11.

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Awda, B.J., Wood, K.M., Trouten-Radford, L., McBride, B.W., Mandell, I.B., Fitzsimmons, C.J., and Swanson, K.C. (2012). "The influence of feed intake on hepatic oxygen consumption, citrate synthase activity and protein concentration in pregnant beef cows.", 45th Meeting Midwestern Sectional Scientific Sessions and Business Meeting, Iowa Events Center, Des Moines, IA, USA, March 19-21, 2012.

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McLean, K.L., Dugan, M.E.R, McAllister, T.A., Basu, U., Li, C., He, M.L., Aalhus, J.L., Guan, L.L., and Fitzsimmons, C.J. (2011). "Identifying gene expression differences associated with a diet-induced increase of omega-3 fatty-acids in beef cattle.", Plant & Animal Genome XIX Conference, Town & Country Convention Center, San Diego, CA, USA, January 15-19, 2011, P708.

Aalhus, J.L., Gariépy, C., Basarab, J.A., Dugan, M.E.R, Fitzsimmons, C.J., Caine, W.R., Uttaro, B., and Juárez, M. (2011). "Optimizing Canadian pork quality through integrated management strategies.", 40th Banff Pork Seminar 2011, Banff Centre, Banff, AB, Canada, January 18-21, 2011.

Paradis, F., Wood, K.M., Swanson, K.C., Mandell, I.B., McBride, B.W., and Fitzsimmons, C.J. (2011). "The impact of maternal nutrition during pregnancy on fetal calf growth and phenotypic characteristics.", Livestock Gentec's 2nd Annual Conference: Addressing the Gap Between Discovery and Profitable Adoption, Edmonton, AB, Canada, October 19-20, 2011.

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McLean, K.L., Dugan, M.E.R, McAllister, T.A., He, M.L., Guan, L.L., Aalhus, J.L., and Fitzsimmons, C.J. (2010). "Identifying gene expression differences induced by diets that lead to higher omega-3 fatty-acid deposition in beef cows.", Genomics and Livestock Quality Improvement Meeting, Calgary, AB, Canada, May 11-13, 2010.

Dwivedi, R., Girard, I., Bruce, H.L., Aalhus, J.L., Basarab, J.A., and Fitzsimmons, C.J. (2010). "Effect of aggressive growth implants and/or beta-adrenergic agonist supplementation on gene expression and meat tenderness in youthful beef cattle.", Genomics and Livestock Quality Improvement Meeting, Calgary, AB, Canada, May 11-13, 2010. (Abstract)

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Liu, Y., Fitzsimmons, C.J., Truran, S., Kruk, Z.A., Chou, Z., and Hiendleder, S. (2009). "Maternal genetics affects genomic imprinting of the insulin-like growth factor 2 receptor gene.", 30th Lorne Annual Genome Conference, Mantra Erskine Resort, Lorne, Australia, February 15-18, 2009.

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Liu, Y., Fitzsimmons, C.J., Kruk, Z.A., Kind, K., and Hiendleder, S. (2009). "Polymorphic Imprinting of IGF2R in Bovine Placenta.", 2009 Meeting of the International Federation of Placenta Associations (IFPA), Adelaide, South Australia, Australia, October 6-9, 2009.

Fitzsimmons, C.J., Feldmann, R., Kruk, Z.A., Truran, S., Lines, D., Rutley, D.L., and Hiendleder, S. (2009). "Maternal weight and P8 fat amount affects IGF2 expression in semitendinosus muscle tissue of the developing fetus.", ADSA-CSAS-ASAS 2009 Joint Annual Meeting, Montréal Convention Center, Montréal, QC, Canada, July 12-16, 2009.

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Fitzsimmons, C.J., Feldmann, R., Truran, S., Kruk, Z.A., Lines, D., Rutley, D.L., and Hiendleder, S. (2008). "Distinctive patterns of IGF2 and IGF2R expression in *Bos indicus*, *Bos taurus* and hybrid fetuses.", 31st Conference of the International Society for Animal Genetics (ISAG), RAI Conference Center, Amsterdam, The Netherlands, July 20-24, 2008.

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Fitzsimmons, C.J., Kruk, Z.A., Lines, D., Feldmann, R., Truran, S., Bottema, C., Maddocks, S., and Hiendleder, S. (2007). "Intrauterine Development in a Naturally Occurring Bovine Large Offspring Model.", 5th International Conference on Developmental Origins of Health & Disease, Perth, Australia, November 6-10, 2007.

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Research Publications:

2012

De Clerck-Floate, R.A., Saunders, P., and Floate, K.D. (2012). "Release and recapture of three insect species test the efficacy of trap method and air flow in insect containment.", *Canadian Entomologist*, 144(4), pp. 609-616. doi : 10.4039/tce.2012.45

Lumaret, J.-P., Errouissi, F., Floate, K.D., Römbke, J., and Wardhaugh, K.G. (2012). "A Review on the Toxicity and Non-Target Effects of Macrocyclic Lactones in Terrestrial and Aquatic Environments.", *Current Pharmaceutical Biotechnology*, 13(6), pp. 1004-1060.

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Bourassa, S., Cárcamo, H.A., Spence, J.R., Blackshaw, R.E., and Floate, K.D. (2010). "Effects of Crop Rotation and Genetically Modified Herbicide-Tolerant Corn on Ground Beetle Diversity, Community Structure, and Activity Density.", *Canadian Entomologist*, 142(2), pp. 143-159. doi : 10.4039/n09-017

Footitt, R.G., Floate, K.D., and Maw, H.E.L. (2010). "Molecular evidence for sympatric taxa within *Pemphigus betae* (Hemiptera: Aphididae: Eriosomatinae).", *Canadian Entomologist*, 142(4), pp. 344-353. doi : 10.4039/n10-028

Blanckenhorn, W.U., Pemberton, A.J., Bussière, L.F., Römbke, J., and Floate, K.D. (2010). "A review of the natural history and laboratory culture methods for the yellow dung fly, *Scathophaga stercoraria*.", *Journal of Insect Science*, 10:11.

Floate, K.D. (2010). "Gall-inducing aphids and mites associated with the hybrid complex of cottonwoods, *Populus* spp. (Salicaceae) on Canada's grasslands.", in Shorthouse, J.D. and Floate, K.D. (eds.) *Arthropods of Canadian Grasslands. Vol. 1: Ecology and Interactions in Grassland Habitats*, Biological Survey of Canada (BSC), Chapter 13, pp. 281-300.

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Hudson, A.J. and Floate, K.D. (2009). "Further Evidence for the Absence of Bacteria in Horsehair Worms (Nematomorpha: Gordiidae).", *Journal of Parasitology*, 95(6), pp. 1545-1547. doi : 10.1645/GE-2145.1

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Other Science Related Publications:

2014

Li, Y.Y., Floate, K.D., Fields, P.G., and Pang, B. (2014). "Review of treatment methods to remove Wolbachia bacteria from arthropods. Symbiosis. (online)".

Otani, J.K., Floate, K.D., Hivet, V.A.D., Hummel, J.D., Broatch, J.S., Reid, P., Erlandson, M.A., Evenden, M.L., Meers, S., Barkley, S., Laird, R.A., Sharanowski, B., Hartley, S., and Gavloski, J.E. (2014). "Cutworm update.", *Agronomy Update Conference 2006*, Red Deer, AB, Canada, January 10-11, 2006, pp. 5.

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Floate, K.D. and Coghlin, P.C. (2013). "Invasion dynamics of Wolbachia bacteria in populations of the wasp, *Trichomalopsis sarcophagae* (Pteromalidae).", *61st Annual meeting of the Entomological Society of Alberta*, Olds College, Olds, AB, Canada, October 10-11, 2013.

Li, Y.Y., Floate, K.D., Fields, P.G., and Pang, B. (2013). "Effect of antibiotics on Wolbachia infections in *Tribolium confusum* and on host reproduction.", *61st Annual meeting of the Entomological Society of Alberta*, Olds College, Olds, AB, Canada, October 10-11, 2013.

Hivet, V.A.D., Floate, K.D., and Laird, R.A. (2013). "Assessment of a hymenopteran parasitoid's potential as biocontrol agent of cutworms.", *61st Annual meeting of the Entomological Society of Alberta*, Olds College, Olds, AB, Canada, October 10-11, 2013.

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Hervet, V.A.D., Floate, K.D., and Laird, R.A. (2013). "Biocontrol potential for cutworms (Lepidoptera: Noctuidae) of a braconid wasp newly recorded in North America.", Joint Annual Meeting of the Entomological Societies of Ontario and Canada, Guelph, Ontario, Canada, October 20-23, 2013.

Li, Y.Y., Floate, K.D., Fields, P.G., and Pang, B. (2013). "Effect of antibiotics on Wolbachia infections in *Tribolium confusum* and on host reproduction.", 69th Annual Meeting of the Entomological Society of Manitoba, Winnipeg, MB, Canada, November 1-2, 2013.

Floate, K.D. (2013). "Trust but verify. A field ecologist ponders the power and pitfalls of molecular methods.", 69th Annual Meeting of the Entomological Society of Manitoba, Winnipeg, MB, Canada, November 1-2, 2013.

Floate, K.D. and Kadiri, N. (2013). "Seasonal activity of dung beetles (Coleoptera: Scarabaeidae) on native grasslands in southern Alberta.", 2013 Canadian Forage and Grassland Association, Olds, AB, Canada, December 10-11, 2013.

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Research Publications:

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Research Publications:

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Pelletier, Y., Nie, X., and Footitt, R.G. (2011). "Identification of potato virus Y vector from trap samples.", Entomological Society of America (ESA) 59th Annual Meeting, Reno-Sparks Convention Center, Reno, NV, USA, November 13-16, 2011. (Poster)

Floate, K.D., Isabel, N., and Footitt, R.G. (2011). "Genetic typing of hosts and aphids provides new insights on galling arthropods of hybrid cottonwoods.", Joint Annual Meeting of the Entomological Society of Canada and Acadian Entomological Society, Westin Nova Scotian Hotel, Halifax, NS, Canada, November 6-9, 2011, pp. 58. (Presentation)

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Isabel, N., Talbot, P., Lamothe, M., Bousquet, J., Schroeder, W.R., Floate, K.D., Footitt, R.G., Ruiz, P., Cunningham, S.M., McIntire, E.J.B., and Thompson, S. (2010). "Contemporary gene flow between poplars with exotic component and natural populations of native species across Canada.", 5th International Poplar Symposium Poplars and willows: from research models to multipurpose trees for a biobased society, Orvieto TR, Italy, September 20-25, 2010.

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Footitt, R.G., Maw, H.E.L., and Floate, K.D. (2008). "Molecular evidence for sympatric taxa within 'sugarbeet root aphid' (Hemiptera: Aphididae: Eriosomatinae).", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008, pp. 92.

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Research Publications:

2014

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Neilsen, G.H., Forge, T.A., Neilsen, D., O'Gorman, D.T., and Bissonnette, N. (2013). "Soil and nutrient management in organic orchard production.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013, SSSA division soil fertility and plant nutrition, Abstract 133-9, pp. 103. (Abstract)

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Research Publications:

2014

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Forney, C.F., Abrams, S.R., Kalt, W., and Owen, S.J. (2008). "Effects of postharvest light and ABA treatments on the composition of white cranberry fruit.", *International Society for Horticultural Science (ISHS) 9th International Conference on Vaccinium*, Oregon State University, Corvallis, OR, USA, July 13-16, 2008. (Abstract)

Forney, C.F. (2008). "Postharvest issues in blueberry and cranberry and methods to improve market-life.", *International Society for Horticultural Science (ISHS) 9th International Conference on Vaccinium*, Oregon State University, Corvallis, OR, USA, July 13-16, 2008. (Abstract)

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Fan, L., Forney, C.F., Song, J., Doucette, C., Jordan, M.A., and McRae, K.B. (2007). "Effect of hot water dips on quality of highbush blueberries.", *94th Annual Meeting of the International Association of Food Protection*, Lake Buena Vista, FL, USA, July 8-11, 2007, pp. 131. (Abstract)

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Research Publications:

2012

Foroud, N.A., Ouellet, T., Laroche, A., Oosterveen, B., Jordan, M.C., Ellis, B.E., and Eudes, F. (2012). "Differential transcriptome analyses of three wheat genotypes reveal different host response pathways associated with Fusarium head blight and trichothecene resistance.", *Plant Pathology*, 61(2), pp. 296-314. doi : 10.1111/j.1365-3059.2011.02512.x

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Hazendonk, P., Foroud, N.A., Eudes, F., and Shank, R.A. (2011). "Towards understanding the toxicity of deoxynivalenol (DON) and its implications.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 27.

Foroud, N.A. (2011). "Cell signalling mechanisms mediating Fusarium Head Blight resistance and other traits in wheat.", National Research Council (NRC) Plant Biotechnology Institute Seminar, NCR Plant Biotechnology Institute, Saskatoon, SK, Canada, 2011. (Presentation)

2010

Shank, R.A., Foroud, N.A., Chaudhary, P., Goettel, J.T., Montana, T., Hazendonk, P., and Eudes, F. (2010). "The role of hydrogen-bonding interactions on the toxicity of trichothecenes T-2 and deoxynivalenol.", 93rd Canadian Chemistry Conference and Exhibition: Diversity in Chemistry, Toronto, ON, Canada, May 29-June 2, 2010. (Poster)

Foroud, N.A., Ellis, B.E., and Eudes, F. (2010). "Recombinant expression and characterization of antifungal properties of a wheat lipid transfer protein.", Cambridge Healthtech Institute 9th Annual PepTalk (2010 CHI PepTalk), Hotel Del Coronado, San Diego, CA, USA, January 11-15, 2010. (Poster)

Shank, R.A., Foroud, N.A., Chaudhary, P., Goettel, J.T., Montana, T., Hazendonk, P., and Eudes, F. (2010). "NMR structure determination offers insights into the mechanism for toxicity of trichothecenes T-2 toxin and deoxynivalenol.", 31st Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, October 12-14, 2010. (Presentation)

Foroud, N.A., Ellis, B.E., Ouellet, T., Friedt, J., Oosterveen, B., Jordan, M.C., Laroche, A., and Eudes, F. (2010). "Investigating the molecular mechanisms of fusarium head blight resistance in wheat.", 31st Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, October 12-14, 2010. (Presentation)

Shank, R.A., Foroud, N.A., Chaudhary, P., Goettel, J.T., Montana, T., Hazendonk, P., and Eudes, F. (2010). "A tale of two toxins: an NMR study of the trichothecenes T-2 and DON.", Western Canadian Undergraduate Chemistry Conference, Lethbridge, AB, Canada, May 6-8, 2010. (Presentation)

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Foroud, N.A., Ellis, B.E., and Eudes, F. (2009). "Priming induced systematic resistance and susceptibility to Fusarium Head Blight in wheat.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

Badea, A., Eudes, F., Foroud, N.A., and Misra, S. (2009). "Phenotypic evaluation of wheat transgenic lines expressing 10R and MsrA2 antimicrobial peptides.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

Chaudhary, P., Goettel, J.T., Montana, T., Foroud, N.A., Hazendonk, P., and Eudes, F. (2009). "New insights into the hydrogen-bonding behavior of T-2 toxin and inferences on its role in trichothecene toxicity.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

Foroud, N.A., McCormick, S., MacMillan, T., Ellis, B.E., Kendra, D.F., and Eudes, F. (2009). "Fungal trichothecene-genotypes play a role in fusarium head blight disease spread and trichothecene accumulation in wheat.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

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Geddes, J.M.H., Foroud, N.A., Selinger, L.B., Laroche, A., and Eudes, F. (2008). "Proteome and transcriptome analysis of the impact of trichothecenes and *Fusarium graminearum* in barley.", 9th International Congress of Plant Pathology (ICPP), Torino, Italy, August 24-29, 2008. (Poster)

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Research Publications:

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Research Publications:

2014

Fox, C.A., Tarnocai, C., Broll, G., Joschko, M., Kroetsch, D.J., and Kenney, E. (2014). "Enhanced A Horizon Framework and Field Form for Detailed Field Scale Monitoring of Dynamic Soil Properties.", *Canadian Journal of Soil Science*. doi : 10.4141/CJSS2013-079

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Zhang, T.Q., Tan, C.S., Drury, C.F., Reynolds, W.D., Welacky, T.W., Yang, J.Y., Fox, C.A., and Yang, X.M. (2009). "Integrated Approaches, Optimized Practices, and Maximized Integrative Effects.", Canada-China Soil and Eco-Environment Cooperative Management Workshop, Shenyang City, Liaoning Province, China, May 5-7, 2009. (Presentation)

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Research Publications:

2013

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Gardner, K.M., Wight, C.P., Mitchell Fetch, J.W., Yan, W., Ames, N.P., Rossnagel, B.G., Herrmann, M., Molnar, S.J., Frégeau-Reid, J.A., Miller, S.S., Fetch Jr., T.G., Chong, J., Martin, R.A., Tekauz, A., Haber, S.M., Savard, M.E., and Tinker, N.A. (2012). "Prospects of whole genome selection in oat using high throughput genetic markers.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

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Research Publications:

2008

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Research Publications:

2014

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Zhou, R., Tsang, E., Fu, Y.B., and Gruber, M.Y. (2009). "Rapid determination of S-Adenosylmethionine and S-Adenosylhomocysteine in plant tissues by UPLC-Tandem Mass Spectrometry.", 5th International Conference of the Metabolomics Society, Crowne Plaza Chateau Lacombe, Edmonton, AB, Canada, August 30-September 2, 2009. (Poster)

Fu, Y.B. (2009). "Was flax first domesticated for oil or fibre?.", 74th Symposium on Evolution the Molecular Landscape, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, Canada, May 27-June 2, 2009. (Poster)

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Fu, Y.B. (2008). "Molecular characterization of the potato clones at the Potato Gene Resources Repository.", *Potato Gene Resources Newsletter*, 15, pp. 2-8. (Newsletter)

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Research Publications:

2011

Fuller, K.D., Embree, C.G., Fillmore, S.A.E., St George, E., Nichols, D.S., and Lutz, L. (2011). "Performance of Geneva® 30 apple rootstock in Nova Scotia.", *Acta Horticulturae (ISHS)*, 903, pp. 273-279.

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Fuller, K.D., Gordon, R.J., Grimmett, M.G., Fillmore, S.A.E., Madani, A., Van Roestel, J., Stratton, G.W., MacLeod, J.A., Embree, C.G., and St George, E. (2010). "Seasonal and crop rotational effects of manure management on nitrate-nitrogen leaching in Nova Scotia.", *Agriculture, Ecosystems and Environment*, 137(3-4), pp. 267-275. doi : 10.1016/j.agee.2010.02.012

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Sinclair, A.C., Hebb, D., Jamieson, R.C., Gordon, R.J., Benedict, K., Fuller, K.D., Stratton, G.W., and Madani, A. (2009). "Growing season surface water loading of fecal indicator organisms within a rural watershed.", *Water Research*, 43(5), pp. 1199-1206. doi : 10.1016/j.watres.2008.12.006

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Fuller, K.D., Burton, D.L., Drury, C.F., Grimmett, M.G., Zebarth, B.J., Franklin, J.L., Rodd, A.V., Van Roestel, J., and George, E. (2013). "Growing season denitrification losses impacted by land management practices, soil properties, and weather conditions in manure-amended perennial hayfield and corn-soybean-wheat rotations in Atlantic Canada.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013. (Poster)

Fuller, K.D., Drury, C.F., Grimmett, M.G., Burton, D.L., Franklin, J.L., Zebarth, B.J., Gordon, R.J., Van Roestel, J., and George, E. (2013). "Nitrogen leaching losses in manure amended perennial hayfield and corn-soybean-wheat rotations in Atlantic Canada.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013. (Poster)

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Fuller, K.D., Gordon, R.J., Grimmett, M.G., Fillmore, S.A.E., Madani, A., Van Roestel, J., Stratton, G.W., MacLeod, J.A., Embree, C.G., and St George, E. (2011). "Seasonal and crop rotational effects of manure management on nitrate-nitrogen leaching in Nova Scotia [Agriculture, Ecosystems and Environment 137 (2010) 267-275] (Corrigendum).", *Agriculture, Ecosystems and Environment*, 141(3-4), pp. 466.

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Research Publications:

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Research Scientist

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Research Publications:

2014

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Research Publications:

2013

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Research Publications:

2014

Vincent, C., Lemoyne, P., Gaul, S.O., and MacKenzie, K.C. (2014). "Extreme cold temperature to kill blueberry maggot in reusable containers.", *Journal of Economic Entomology*, 107(3), pp. 906-909. doi : 10.1603/EC13524

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Research Publications:

2013

Bing, D.-J., Beauchesne, D., McLaren, D.L., Vera, C.L., and Gehl, D.T. (2013). "AAC Peace River field pea.", *Canadian Journal of Plant Science*, 93(2), pp. 337-339. doi : 10.4141/cjps2012-173

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Research Publications:

2013

Gélinas, P. and McKinnon, C.M. (2013). "Experiments on dough rheology to improve screening of bread wheat cultivars.", *Journal of Food Science and Technology*, 48(9), pp. 1956-1961. doi : 10.1111/ijfs.12176

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2008

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Research Publications:

2013

Thistlewood, H.M.A., Gibson, G.A.P., Gillespie, D.R., and Fitzpatrick, S.M. (2013). "*Drosophila suzukii* (Matsumura), Spotted Wing Drosophila (Diptera: Drosophilidae).", in Mason, P.G. and Gillespie, D.R. (eds.) Biological Control Programmes in Canada 2001-2012, CABI Publishing, Chapter 21, pp. 152-155.

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Research Publications:

2014

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Research Publications:

2014

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Research Publications:

2014

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Research Publications:

2013

Wang, Q., Dubé, C., Gagnon, C., Gleddie, S.C., Hao, Y.-J., and Khanizadeh, S. (2013). "Fruit Differential Protein Patterns in Strawberry Cultivars Susceptible or Resistant to Gray Mold.", *Archives of Phytopathology and Plant Protection*, 46(7), pp. 813-824. doi : 10.1080/03235408.2012.752619

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Harris, L.J., Bosnich, W., Johnston, A., Woldemariam, T., Reid, L.M., Schneiderman, D., Mohammadi, M., and Gleddie, S.C. (2011). "Mapping gibberella ear rot resistance in maize using a large B73 X CO441 F6 recombinant inbred population.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 95.

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Martin, V. and Gleddie, S.C. (2010). "Fermentation efficiency.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #105, pp. 55. (Poster)

Yanofsky, C., Usher, J., Baetz, K., Montazeri, Z., Johnston, A., Harris, L.J., Mohammadi, M., Gleddie, S.C., and Bickel, D. (2010). "Analysis of -omics data: Application to the transcriptome of xylose-utilizing yeast.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #106, pp. 55. (Poster)

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Research Publications:

2014

Gilmanov, T.G., Baker, J., Bernacchi, C.J., Billesbach, D.P., Burba, G.G., Castro, S., Chen, J., Eugster, W., Fischer, M.L., Gamon, J.A., Gebremedhin, M.T., Glenn, A.J., Griffis, T.J., Hatfield, J.L., Heuer, M.W., Howard, D.M., Leclerc, M.Y., Loescher, H.W., Marloie, O., Meyers, T.P., Olliso, A., Phillips, R.L., Prueger, J.H., Skinner, R.H., Suyker, A.E., Tenuta, M., and Wylie, B.K. (2014). "Productivity and carbon dioxide exchange of the leguminous crops: Estimates from flux tower measurements.", *Agronomy Journal*, 106(2), pp. 545-559. doi : 10.2134/agronj2013.0270

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Hanis, K., Tenuta, M., Amiro, B.D., Glenn, A.J., Maas, S.E., and Gervais, M. (2013). "Harvest removals negate the benefit of perennial forage in reducing greenhouse gas emissions in an annual crop rotation within the Red River Valley, Manitoba.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013, Presentation.

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Glenn, A.J. (2012). "Diurnal and Seasonal Relationships Between Incoming Solar Radiation and the Photosynthetically-Active Photon Flux Density in Southwestern Manitoba.", 55th Annual Manitoba Soil Science Society Meeting, Winnipeg, MB, Canada, February 2-3, 2012. (Poster)

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Tenuta, M., Sapkota, T., Amiro, B.D., Glenn, A.J., and Maas, S.E. (2012). "Greenhouse Gas Emissions from Annual-alone and Annual-Perennial Cropping Systems in the Red River Valley, Manitoba.", 30th Conference on Agricultural and Forest Meteorology and 1st Conference on Atmospheric Biogeosciences, Boston, MA, USA, May 28-June 1, 2012.

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Sapkota, T., Tenuta, M., Amiro, B.D., Glenn, A.J., and Stewart, S.E. (2011). "Greenhouse gas emission benefit of including perennial forage in a Canadian Prairie cropping system.", Manitoba Agronomists 2009 Conference, Winnipeg, MB, Canada, December 15-16, 2009. (Poster)

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Research Publications:

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Research Publications:

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2011

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Research Publications:

2014

Rasmussen, J.B., Gilroyed, B.H., Reuter, T.R., Badea, A., Eudes, F., Graf, R.J., Laroche, A., Kav, N.N.V., and McAllister, T.A. (2014). "Efficiency of protein as a nitrogen source for wheat and morphological changes in roots exposed to high protein concentrations.", *Canadian Journal of Plant Science*, 94(4), pp. 603-613. doi : 10.4141/cjps2013-187

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Other Science Related Publications:

2013

Randhawa, H.S., Eudes, F., Beres, B.L., Graf, R.J., Fedak, G., Comeau, A., Langevin, F., Dion, Y., and Pozniak, C.J. (2013). "Integrated approaches for triticale breeding.", The 8th International Triticale Symposium, Ghent, Belgium, June 10-14, 2013, (Presentation).

Laroche, A., Puchalski, B., Singh, A., Puchalski, B., Gaudet, D.A., Randhawa, H.S., Graf, R.J., and Frick, M. (2013). "Next-generation sequencing to characterize *Pst* races from western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, New Delhi, India, August 19-22, 2013. (Presentation)

Randhawa, H.S., Puchalski, B., Puchalski, B., Laroche, A., Graf, R.J., and Gaudet, D.A. (2013). "Virulence analysis of Pst isolates collected from western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, New Delhi, India, August 19-22, 2013. (Presentation)

2012

Kutcher, H.R., Randhawa, H.S., Puchalski, B., Wogsberg, S., Graf, R.J., and Gaudet, D.A. (2012). "The 2011 stripe rust epidemic in western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, Beijing, China, September 1-4, 2012.

Kutcher, H.R., Turkington, T.K., Gaudet, D.A., Randhawa, H.S., Puchalski, B., Wogsberg, S., and Graf, R.J. (2012). "Managing cereal and canola diseases.", Crop Talk, Prince Albert Exhibition Centre, Saskatoon, SK, Canada, March 7, 2012, (Presentation).

2011

Graf, R.J., Briggs, K.G., and Sieusahai, G. (2011). "Using regional variety trial data to choose crop varieties.", Seed and Crop Technology Workshop, Olds College, Olds, AB, Canada, November 16, 2011. (Presentation)

Randhawa, H.S., Gaudet, D.A., Puchalski, B., and Graf, R.J. (2011). "New virulence races of stripe rust in Western Canada.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011. (Abstract)

Randhawa, H.S., Puchalski, B., Wogsberg, S., Graf, R.J., Kutcher, H.R., and Gaudet, D.A. (2011). "The occurrence of stripe rust epidemic in western Canada.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011. (Abstract)

Gaudet, D.A., Randhawa, H.S., Puchalski, B., Graf, R.J., Despina, T., and Laroche, A. (2011). "Stripe rust resistance among western Canadian wheat and triticale cultivars.", Canadian Phytopathological Society (CPS) 82nd Annual Meeting (with Plant Canada 2011), Halifax, NS, Canada, July 17-21, 2011.

Puchalski, B., Gaudet, D.A., Harpinder, R., Graf, R.J., and Wogsberg, S. (2011). "The 2011 stripe rust epidemic in western Canada.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 12.

Gaudet, D.A., Randhawa, H.S., Puchalski, B., Frick, M., Goyal, A., Despina, T., Graf, R.J., and Laroche, A. (2011). "Stripe rust resistance among western Canadian wheat and triticale cultivars.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 7.

Graf, R.J. (2011). "Practical aspects of plant breeding.", Alberta Crop Industry Development Fund (ACIDF) Feeding Initiative Advisory Committee, Lethbridge, AB, Canada, December 14, 2011. (Presentation)

Goyal, A., Puchalski, B., Gaudet, D.A., Graf, R.J., McCallum, B.D., and Randhawa, H.S. (2011). "Genetics of resistance to common bunt, leaf and stripe rust in N9195 spring wheat.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011. (Abstract)

Laroche, A., Frick, M., Puchalski, B., Graf, R.J., Randhawa, H.S., and Gaudet, D.A. (2011). "Towards the genome sequencing of Alberta races of *Puccinia striiformis*, the causal agent of stripe rust.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 9.

Randhawa, H.S., Puchalski, B., Graf, R.J., Goyal, A., Despina, T., and Gaudet, D.A. (2011). "Reactions of western Canadian wheat and triticale varieties to stripe rust.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011. (Poster)

Fox, S.L., DePauw, R.M., Humphreys, D.G., Hucl, P.J., Singh, A.K., Pozniak, C.J., Brown, P.D., Graf, R.J., Randhawa, H.S., Voldeng, H.D., McCartney, C.A., Hiebert, C.W., Knox, R.E., Thomas, J.B., Townley-Smith, L., and Fetch Jr., T.G. (2011). "Canadian initiatives in breeding for stem rust resistance to race Ug99 and variants.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, pp. 121-126.

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DePauw, R.M., Knox, R.E., Thomas, J.B., Humphreys, D.G., Fox, S.L., Brown, P.D., Singh, A.K., Randhawa, H.S., Hucl, P.J., Pozniak, C.J., Fowler, D.B., Graf, R.J., and Brûlé-Babel, A.L. (2010). "New breeding tools impact Canadian commercial farmer fields.", 8th International Wheat Conference, St. Petersburg, Russia, June 1-4, 2010. (Presentation)

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DePauw, R.M., Fetch Jr., T.G., Hiebert, C.W., Humphreys, D.G., Knox, R.E., Pozniak, C.J., Thomas, J.B., Singh, A.K., Graf, R.J., Randhawa, H.S., Fox, S.L., Brown, P.D., Clarke, F.R., and Clarke, J.M. (2009). "Sources of resistance to stem rust race Ug99 and its variants in Canadian wheat germplasm.", Borlaug Global Rust Initiative (BGRl) 2009 Technical Workshop, Ciudad Obregón, Sonora, México, March 17-20, 2009, pp. 171-178.

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Fox, S.L., Thomas, J.T., Sadasivaiah, R.S., Graf, R.J., Beres, B.L., Hucl, P.J., Pozniak, C.J., DePauw, R.M., Singh, A.K., Knox, R.E., Brown, P.D., Humphreys, D.G., Randhawa, H.S. (2009). "Progress in breeding for FHB resistance in Canadian Spring Wheat 2009.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009.

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Beres, B.L., Eudes, F., Graf, R.J., Spaner, D.M., Clarke, F.R., Salmon, D.F., Clarke, J.M., Singh, R.P., Knox, R.E., McLeod, G.J., Frick, M., Dion, Y., Lu, Z.-X., Randhawa, H.S., Laroche, A., Gaudet, D.A., McCallum, B.D., Cuthbert, R.D., Irvine, R.B., Voldeng, H.D., Martin, R.A., Pageau, D., Comeau, A., Pozniak, C.J., DePauw, R.M. (2008). "A Pan-Canadian ethanol feedstock study to benchmark the relative performance of triticale.", Plants and Soils: Montreal '08: Joint meeting of the CSHS, CSA and Northeastern Branch ASA-CSSA-SSSA, McGill University, Montréal, QC, Canada, July 13-16, 2008. (Poster)

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Research Publications:

2014

Dai, M., Hamel, C., Bainard, L.D., St. Arnaud, M., Grant, C.A., Lupwayi, N.Z., Malhi, S.S., and Lemke, R.L. (2014). "Negative and positive contribution of arbuscular mycorrhizal fungal taxa to wheat production and nutrient uptake efficiency in organic and conventional systems in the Canadian prairie.", *Soil Biology & Biochemistry*, 74, pp. 156-166. doi : 10.1016/j.soilbio.2014.03.016

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Research Publications:

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Schwager, E., VanderZaag, A.C., Crolla, A., Kinsley, C., Wagner-Riddle, C., and Gregorich, E.G. (2013). "Nitrous oxide emissions and nitrogen leaching in Dairy feed crops receiving manure, anaerobically digested manure, and urea.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013.

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Research Publications:

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Research Publications:

2014

Guévremont, É., Lamoureux, L., Loubier, C. B., Villeneuve, S., and Dubuc, J. (2014). "Detection and characterization of *Campylobacter* spp. from forty dairy cattle herds in Quebec, Canada.", *Foodborne Pathogens and Disease*, 11(5), pp. 388-394. doi : 10.1089/fpd.2013.1706

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Guévremont, É., Lamoureux, L., Loubier, C. B., and Dubuc, J. (2012). "Occurrence of *Campylobacter* spp in dairy cattle farms of Quebec, Canada.", 101st Annual Meeting of the International Association of Food Protection (IAFP 2012), Rhode Island Convention Center, Providence, RI, USA, July 22-25, 2012. (Poster)

Guévremont, É., Lamoureux, L., Loubier, C. B., and Dubuc, J.-F. (2012). "Présence de *Campylobacter* spp. en production laitière: qu'en est-il au Québec?", 3e rencontre annuelle de l'Association Québécoise pour l'Innocuité Alimentaire (AQIA), Centre des Congrès de Lévis, Québec City, QC, Canada, September 13, 2012. (Poster)

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Houde, A., Poitras, E., Leblanc, D., Ward, P., Guévremont, É., Brassard, J., Trottier, Y.-L., and Simard, C. (2010). "Detection of Hepatitis A virus using the conventional and real-time Reverse-Transcriptase Polymerase Chain Reaction.", in Food Directorate, Health Products and Food Branch The Compendium of Analytical Methods. Vol. 5, Health Canada, Chapter OPFLP-07.

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Brassard, J., Gagné, M.-J., Lamoureux, L., and Guévremont, É. (2009). "Combined recovery and concentration method for bacteria and viruses from contaminated water and leafy vegetables.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Poster)

2008

Thibodeau, A., Quessy, S., Guévremont, É., Houde, A., Topp, E., Diarra, M.S., and Letellier, A. (2008). "Utilisation de bacitracine et virginiamycine comme promoteurs de croissance chez les poulets de grill : Effet sur la performance et l'antibiorésistance.", 4e Colloque international francophone de microbiologie animale, 4e rencontre internationale de l'industrie vétérinaire « Innovet 2008 », 2e Symposium du Centre de recherche en infectiologie porcine (CRIP), Hôtel des Seigneurs, Saint-Hyacinthe, QC, Canada, September 21-24, 2008. (Abstract)

2007

Thibodeau, A., Quessy, S., Guévremont, É., Topp, E., Diarra, M.S., and Letellier, A. (2007). "Antibiotic resistance in *Escherichia coli* and *Enterococcus* spp. obtained from commercial broiler chickens receiving growth-promoting doses of bacitracin or virginiamycin.", 107th Annual General Meeting of the American Society for Microbiology, Toronto, ON, Canada, May 21-25, 2007.

Haber, Steve M., Ph.D.

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Research Publications:

2014

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Tekauz, A., Turkington, T.K., and Savard, M.E. (2014). "AAC Synergy barley.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-307

2013

Legge, W.G., Tucker, J.R., Bizimungu, B., Tekauz, A., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Noll, J.S., Turkington, T.K., Martin, R.A., Choo, T.-M., Vigier, B.J., Blackwell, B.A., and Savard, M.E. (2013). "Taylor barley.", *Canadian Journal of Plant Science*, 93(5), pp. 969-977. doi : 10.4141/cjps2013-126

Seifers, D.L., Haber, S.M., Martin, T.J., and Zhang, G. (2013). "New Sources of Temperature-Sensitive Resistance to *Wheat streak mosaic virus* in Wheat.", *Plant Disease*, 97(8), pp. 1051-1056. doi : 10.1094/PDIS-11-12-1029-RE

Mitchell Fetch, J.W., Tekauz, A., Brown, P.D., Ames, N.P., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Townley-Smith, L., Stadnyk, K.D., and Green, D.A. (2013). "Stride oat.", *Canadian Journal of Plant Science*. doi : 10.4141/cjps2012-325

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Noll, J.S., Tekauz, A., Turkington, T.K., and Savard, M.E. (2013). "Major barley.", *Canadian Journal of Plant Science*, 93(2), pp. 291-297. doi : 10.4141/cjps2012-248

Legge, W.G., Tucker, J.R., Bizimungu, B., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Noll, J.S., Tekauz, A., Turkington, T.K., Savard, M.E., and Choo, T.-M. (2013). "Cerveza barley.", *Canadian Journal of Plant Science*, 93(3), pp. 557-564. doi : 10.4141/cjps2012-299

Gilbert, J. and Haber, S.M. (2013). "Overview of some recent research developments in fusarium head blight of wheat.", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2013.772921

2012

Fahim, M., Mechanicos, A.A., Ayala-Navarrete, L., Haber, S.M., and Larkin, P.J. (2012). "Resistance to Wheat streak mosaic virus: a survey of resources and development of molecular markers.", *Plant Pathology*, 61(3), pp. 425-440. doi : 10.1111/j.1365-3059.2011.02542.x

2011

Mitchell Fetch, J.W., Brown, P.D., Ames, N.P., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Townley-Smith, L., and Stadnyk, K.D. (2011). "Stainless oat.", *Canadian Journal of Plant Science*, 91(2), pp. 357-361. doi : 10.4141/CJPS10159

Legge, W.G., Tucker, J.R., Bizimungu, B., Tekauz, A., Noll, J.S., Fetch Jr., T.G., Menzies, J.G., Haber, S.M., Savard, M.E., Vigier, B.J., Choo, T.-M., Martin, R.A., Turkington, T.K., Rossnagel, B.G., and Harvey, B.L. (2011). "Norman barley.", *Canadian Journal of Plant Science*, 91(6), pp. 1105-1113. doi : 10.4141/cjps2010-020

Mitchell Fetch, J.W., Brown, P.D., Ames, N.P., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., and Stadnyk, K.D. (2011). "Summit oat.", *Canadian Journal of Plant Science*, 91(4), pp. 787-791. doi : 10.4141/CJPS10158

2009

Seifers, D.L., Martin, T.J., Harvey, T.L., Haber, S.M., Krokkin, O., Spicer, V., Ying, S., and Standing, K.G. (2009). "Identification of variants of the high plains virus infecting wheat in Kansas.", *Plant Disease*, 93(12), pp. 1265-1274. doi : 10.1094/PDIS-93-12-1265

Mitchell Fetch, J.W., Brown, P.D., Duguid, S.D., Ames, N.P., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., and Stadnyk, K.D. (2009). "Jordan oat.", *Canadian Journal of Plant Science*, 89(1), pp. 67-71. doi : 10.4141/CJPS08095

Mitchell Fetch, J.W., Kibite, S., Clayton, G.W., Turkington, T.K., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., and Ames, N.P. (2009). "Lu Oat.", *Canadian Journal of Plant Science*, 89(4), pp. 671-675. doi : 10.4141/CJPS08193

2008

Seifers, D.L., Martin, T.J., Harvey, T.L., Fellers, J.P., Stack, J.P., Ryba-White, M., Haber, S.M., Krokhn, O., Spicer, V., Lovat, N., Yamchuk, A., and Standing, K.G. (2008). "*Triticum mosaic virus*: A new virus isolated from wheat in Kansas.", *Plant Disease*, 92(5), pp. 808-817. doi : 10.1094/PDIS-92-5-0808

Legge, W.G., Haber, S.M., Harder, D.E., Menzies, J.G., Noll, J.S., Tekauz, A., Thomas, P.L., Turkington, T.K., and Bizimungu, B. (2008). "Newdale barley.", *Canadian Journal of Plant Science*, 88(4), pp. 717-723. doi : 10.4141/CJPS07194

2007

Mitchell Fetch, J.W., Duguid, S.D., Brown, P.D., Chong, J., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Ames, N.P., Noll, J.S., Aung, T., and Stadnyk, K.D. (2007). "Leggett oat.", *Canadian Journal of Plant Science*, 87(3), pp. 509-512. doi : 10.4141/CJPS06030

Other Science Related Publications:

2013

Haber, S.M. and Seifers, D.L. (2013). "Rub-inoculation of wheat with wheat streak mosaic virus (WSMV) ."

2012

Haber, S.M., Desjardins, M., and Bisht, V. (2012). "Cereal virus disease situation in Manitoba and Eastern Saskatchewan in 2011.", *Canadian Plant Disease Survey*, 92, pp. 77-78.

Gardner, K.M., Wight, C.P., Mitchell Fetch, J.W., Yan, W., Ames, N.P., Rossnagel, B.G., Herrmann, M., Molnar, S.J., Frégeau-Reid, J.A., Miller, S.S., Fetch Jr., T.G., Chong, J., Martin, R.A., Tekauz, A., Haber, S.M., Savard, M.E., and Tinker, N.A. (2012). "Prospects of whole genome selection in oat using high throughput genetic markers.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

2011

Haber, S.M. and Gilbert, J. (2011). "Changing Expression to Make Susceptible Bread Wheat Resistant to Fusarium Head Blight.", 2011 National Fusarium Head Blight Forum, Hyatt Regency Hotel, St. Louis, MO, USA, December 4-6, 2011, pp. 23. (Poster)

Haber, S.M., Gilbert, J., Seifers, D.L., and Comeau, A. (2011). "Epigenetics serves Genetics: Fusarium Head Blight (FHB) Resistance in Elite Wheat Germplasm.", *The Americas Journal of Plant Science and Biotechnology*, 5(2), pp. 95.

Haber, S.M., Gilbert, J., and Singh, A.K. (2011). "On the 'Express Route' to fusarium head blight resistance in durum wheat.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 68.

Comeau, A., Langevin, F., Voldeng, H.D., Haber, S.M., Gilbert, J., Randhawa, H.S., Dion, Y., Rioux, S., Eudes, F., Blackwell, B.A., and Martin, R.A. (2011). "One quick solution to FHB problems: the systemic approach.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 72.

Haber, S.M. and Gilbert, J. (2011). "How to make fusarium head blight-susceptible spring wheat resistant: the example of 'Roblin'.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 104.

Haber, S.M., Gilbert, J., Singh, A.K., and Clarke, J.M. (2011). "Revisiting an Evolutionary Approach to Deriving Fusarium Head Blight-Resistant Lines from Elite Durum Germplasm.", 2011 National Fusarium Head Blight Forum, Hyatt Regency Hotel, St. Louis, MO, USA, December 4-6, 2011, pp. 24. (Poster)

2010

Gilbert, J., Haber, S.M., and Singh, A.K. (2010). "Finding the Express Route: Destination – Fusarium Head Blight Resistance in Durum Wheat.", 11th European Fusarium Seminar: Fusarium Mycotoxins, Taxonomy, Pathogenicity and Host Resistance, Plant Breeding and Acclimatization Institute (IHAR), Radzików, Poland, September 20-23, 2010, Session IV, # KL3. (Presentation)

Haber, S.M. and Desjardins, M.L. (2010). "Cereal virus disease situation in Manitoba and Eastern Saskatchewan in 2009.", *Canadian Plant Disease Survey*, 90, pp. 73.

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Haber, S.M. (2009). "Cereal Virus Disease Situation in Manitoba in 2008.", *Canadian Plant Disease Survey*, 89, pp. 65.

Haber, S.M., Seifers, D.L., and Singh, A.K. (2009). "Evolution of resistance to wheat streak mosaic virus in elite durum wheat germplasm.", *Canadian Journal of Plant Pathology*, 31(4), pp. 487. (Abstract)

2008

Comeau, A., Langevin, F., Savard, M.E., Gilbert, J., Dion, Y., Rioux, S., Martin, R.A., Haber, S.M., Voldeng, H.D., Fedak, G., Somers, D.J., and Eudes, F. (2008). "Improving fusarium head blight resistance in bread wheat and triticale for Canadian needs.", *Cereal Research Communications*, 36(Suppl. 6), pp. 5-9. (Abstract)

Comeau, A., Langevin, F., Caetano, V., Haber, S.M., Savard, M.E., Voldeng, H.D., Fedak, G., Dion, Y., Rioux, S., Gilbert, J., Somers, D.J., and Martin, R.A. (2008). "A systemic approach for the development of FHB resistant germplasm accelerates genetic progress.", 3rd International Symposium on Fusarium Head Blight, Szeged, Hungary, September 2-7, 2008, pp. 1.

Comeau, A., Langevin, F., Gilbert, J., Voldeng, H.D., Savard, M.E., Dion, Y., Rioux, S., Martin, R.A., Haber, S.M., and Somers, D.J. (2008). "A multi-stress selection approach with better biodiversity of resistance mechanisms achieves good results for the development of Fusarium resistant germplasm the example of FL62R1 wheat.", 5th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2007, pp. 125.

Haber, S.M., Gilbert, J., and Golkari, S. (2008). "An evolutionary approach identifies and exploits effective FHB resistance in hitherto susceptible wheat germplasm.", *Cereal Research Communications*, 36(Suppl. 6), pp. 63-69. (Abstract)

Haber, S.M. and Desjardins, M. (2008). "Cereal virus disease situation in Manitoba in 2007.", *Canadian Plant Disease Survey*, 88, pp. 59.

Haber, S.M., Krokhn, O., Harding, M.W., Spicer, V., Lovat, N., and Standing, K.G. (2008). "Wheat proteins by new method of plant breeding: their quantitation by tryptic digestion, Itraq, 2TRAQ, 2D-HPLC and TOFMS.", Lake Louise XXI 21st Annual Tandem Mass Spectrometry Workshop, Lake Louise, AB, Canada, December 3-6, 2008. (Abstract)

Haber, S.M., Seifers, D.L., and Standing, K.G. (2008). "Revisiting genetic inheritance in plants: Using MALDI-TOFMS to investigate what role proteins might play in inducing epigenetic changes that become genetically fixed in wheat.", Winnipeg Regional Meeting of the Canadian Proteome Society (CPS): Mass Spectrometry and Proteomics, University of Manitoba, Winnipeg, MB, Canada, October 15, 2008. (Abstract)

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Research Scientist

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Research Publications:

2013

Shoemaker, R.A., Malloch, D., Hambleton, S., and Liu, M. (2013). "A new *Vestigium* on *Abies balsamea*.", *North American Fungi*, 8(9), pp. 1-6. doi : 10.2509/naf2013.008.009

Liu, M. and Hambleton, S. (2013). "Laying the foundation for a taxonomic review of *Puccinia coronata* s.l. in a phylogenetic context.", *Mycological Progress*, 12(1), pp. 63-89. doi : 10.1007/s11557-012-0814-1

Shoemaker, R.A., Hambleton, S., and Liu, M. (2013). "*Vialaea insculpta* revisited.", *North American Fungi*, 8(10), pp. 1-13. doi : 10.2509/naf2013.008.010

Sigler, L., Hambleton, S., and Paré, J.A. (2013). "Molecular characterization of reptile pathogens currently known as members of the *Chrysosporium* anamorph of *Nannizziopsis vriesii* (CANV) complex and relationship with some human-associated isolates.", *Journal of Clinical Microbiology*, 51(10), pp. 3338-3357. doi : 10.1128/JCM.01465-13

Liu, M., Szabo, L.J., Hambleton, S., Anikster, Y., and Kolmer, J.A. (2013). "Molecular phylogenetic relationships of the brown leaf rust fungi on wheat, rye and other grasses.", *Plant Disease*, 97(11), pp. 1408-1417. doi : 10.1094/PDIS-02-13-0152-RE

2012

Gorzela, M.A., Hambleton, S., and Massicotte, H.B. (2012). "Community structure of ericoid mycorrhizas and root-associated fungi of *Vaccinium membranaceum* across an elevation gradient in the Canadian Rocky Mountains.", *Fungal Ecology*, 5(1), pp. 36-45. doi : 10.1016/j.funeco.2011.08.008

Liu, M. and Hambleton, S. (2012). "*Puccinia chunji*, a close relative of the cereal stem rusts revealed by molecular phylogeny and morphological study.", *Mycologia*, 104(5), pp. 1056-1067. doi : 10.3852/11-251

2011

Johnson, R.S.P., Sangster, C.R., Sigler, L., Hambleton, S., and Paré, J.A. (2011). "Deep fungal dermatitis caused by the *Chrysosporium* anamorph of *Nannizziopsis vriesii* in captive coastal bearded dragons (*Pogona barbata*).", *Australian Veterinary Journal*, 89(12), pp. 515-519. doi : 10.1111/j.1751-0813.2011.00851.x

Tsuneda, A., Hambleton, S., and Currah, R.S. (2011). "The anamorph genus *Knuffia* and its phylogenetically allied species in *Coniosporium*, *Sarcinomyces*, and *Phaeococcomyces*.", *Botany*, 89(8), pp. 523-536. doi : 10.1139/B11-041

Isard, S.A., Barnes, C.W., Hambleton, S., Ariatti, A., Russo, J.M., Tenuta, A.U., Gay, D.A., and Szabo, L.J. (2011). "Predicting Soybean Rust Incursions into the North American Continental Interior Using Crop Monitoring, Spore Trapping, and Aerobiological Modeling.", *Plant Disease*, 95(11), pp. 1346-1357. doi : 10.1094/PDIS-01-11-0034

Vialle, A., Frey, P., Hambleton, S., Bernier, L., and Hamelin, R.C. (2011). "Poplar rust systematics and refinement of *Melampsora* species delineation.", *Fungal Diversity*, 50(1), pp. 227-248. doi : 10.1007/s13225-011-0129-6

2010

Liu, M. and Hambleton, S. (2010). "Taxonomic study of stripe rust, *Puccinia striiformis sensu lato*, based on molecular and morphological evidence.", *Fungal Biology*, 114(10), pp. 881-899. doi : 10.1016/j.funbio.2010.08.005

Tsuneda, A., Hambleton, S., and Currah, R.S. (2010). "*Endoconidioma populi* from aspen and alder: phylogeny, and variations in cleistopycnidial morphology and their ecological implications.", *Botany*, 88(7), pp. 675-684. doi : 10.1139/B10-043

2009

Pryor, B.M., Creamer, R., Shoemaker, R.A., McLain-Romero, J., and Hambleton, S. (2009). "Undifilum, a new genus for endophytic *Embellisia oxytropis* and parasitic *Helminthosporium bornmuelleri* on legumes.", *Botany*, 87(2), pp. 178-194. doi : 10.1139/B08-130

2008

Tsuneda, T., Davey, M.L., Hambleton, S., and Currah, R.S. (2008). "Endosporium, a new endoconidial genus allied to the Myriangiales.", *Botany*, 86(9), pp. 1020-1033. doi : 10.1139/B08-054

2007

Narisawa, K., Hambleton, S., and Currah, R.S. (2007). "*Heteroconium chaetospora*, a dark septate root endophyte allied to the Herpotrichiellaceae (Chaetothyriales) obtained from some forest soil samples in Canada using bait plants.", *Mycoscience*, 48(5), pp. 274-281. doi : 10.1007/s10267-007-0364-6

Bruckart, W.L., McClay, A.S., Hambleton, S., Tropiano, R., and Hill-Rackette, G. (2007). "First Report of *Puccinia lagenophorae* on Common Groundsel (*Senecio vulgaris*) in Canada.", *Plant Disease*, 91(8), pp. 1058. doi : 10.1094/PDIS-91-8-1058C

Other Science Related Publications:

2013

Ordoñez, M.E., Vivvanco, C.E., Hambleton, S., and Barnes, C.W. (2013). "Puccinia on wheat and other Poaceae in the Ecuadorian highlands.", *Phytopathology*, 103(Suppl.2:S2), pp. 108. (Abstract)

Kesanakurti, P., Setia, R., Temple, K., Hambleton, S., Lévesque, C.A., and Lewis, C.T. (2013). "Genome data mining and diagnostic marker development of *Tilletia indica* for Agri-food system detection screening.", *Phytopathology*, 103(Suppl.2:S2), pp. 73. (Abstract)

Sigler, L., Hambleton, S., and Paré, J.A. (2013). "Ophidiomyces gen. nov. and *Ophidiomyces ophiodiicola* comb. nov. New Species Name registration.", *Index Fungorum*, 19.

Malloch, D., Sigler, L., and Hambleton, S. (2013). "*Leuconeurospora capsici* comb. nov. and *Leuconeurospora polypaecioides* sp. nov. New Species Name registration.", *Index Fungorum*, 20.

Lewis, C.T., Chen, W., Zhang, N., El-Kayssi, N., Fung, S., Diarra, M.S., Bilkhu, S., Hambleton, S., and Lévesque, C.A. (2013). "Developing an integrated bioinformatics platform to support real-time monitoring of agricultural environments.", 21st Annual Conference of Intelligent Systems for Molecular Biology (ISMB) and European Conference on Computational Biology (ECCB), Berlin, Germany, July 19-23, 2013.

2012

Chen, W., Lewis, C.T., Chapados, J.T., Hambleton, S., Seifert, K.A., Temple, K., Biernacka-Larocque, A., Robleh Djama, Z., and Lévesque, C.A. (2012). "Canada-wide spore-trapping network provides effective monitoring of microbial phytopathogens in air and rain samples.", Annual meeting of the American Phytopathological Society, Providence, RI, USA, August 4-8, 2012, In: *Phytopathology* 102: S4.22.

Rintoul, T., Lévesque, C.A., Robideau, G.P., Eggertson, Q.A., Rodrigue, N., Chen, W., Spies, C.F.J., Bala, K., de Cock, A.W.A.M., Coffey, M.F., Hamilton, J.P., Hambleton, S., Adhikari, B., and Buell, C.R. (2012). "Molecular diagnosis, identification and phylogeny of *Pythium*, *Phytophthora* and related genera.", 4th International Workshop on *Phytophthora*, *Pythium* and *Phytophythium*, College Park, MD, USA, May 21-25, 2012, Invited oral presentation.

Seifert, K.A., Graefenhan, T., Chen, W., Lewis, C.T., Bilkhu, S., Chapados, J.T., Hambleton, S., and Lévesque, C.A. (2012). "Prospects for using quantitative PCR and metagenomics to detect mycotoxigenic fungi without culturing.", MycoRed International Conference, Carleton University, Ottawa, ON, Canada, June 2012.

Lévesque, C.A., Bilkhu, S., Chapados, J.T., Chen, W., Hambleton, S., Lewis, C.T., Oliver, K., and Seifert, K.A. (2012). "AeroNet: A Canadian spore trapping network monitoring fungi and bacteria with DNA barcodes and next generation sequencing.", The Role of Genomics & Bioinformatics in Protecting Canadians from Microbial Food Safety Risks Workshop, Southway Hotel and Conference Centre, Ottawa, ON, Canada, February 21-22, 2012, Invited oral presentation.

2011

Marsh, K., McCallum, B.D., Wang, X., Tenuta, A.U., Hambleton, S., and Saville, B. (2011). "Investigating emerging wheat pathogens, new wheat leaf rust virulence in Ontario.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

Tsuneda, A., Hambleton, S., and Currah, R.S. (2011). "The anamorph genus *Knufia* and its phylogenetically allied species in *Coniosporium*, *Sarcinomyces*, and *Phaeococcomyces*.", [*Botany/Botanique*, 89(8), pp. 523-536.] (Corrigendum).", *Botany*, 89(12), pp. 887.

Lévesque, C.A., Bilkhu, S., Chapados, J.T., Chen, W., Hambleton, S., Lewis, C.T., Oliver, K., and Seifert, K.A. (2011). "AeroNet: A Canadian spore trapping network monitoring fungi and bacteria with DNA barcodes and next generation sequencing.", iBOL-Canada: The future of DNA Barcoding in Canada, Beaty Biodiversity Museum, UBC, Vancouver, BC, Canada, April 29-May 1, 2011. (Presentation)

Chen, W., Lewis, C.T., Chapados, J.T., Bilkhu, S., Hambleton, S., Seifert, K.A., and Lévesque, C.A. (2011). "Aerobiota diversity in Canada's air: Mining the metagenomic data.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011. (Presentation)

Hambleton, S., Chen, W., Lewis, C.T., Bilkhu, S., Chapados, J.T., Oliver, K., Tenuta, A.U., and Lévesque, C.A. (2011). "AeroNet Canada: Profiling rust fungus diversity in spore trap samples with DNA barcoding and next generation sequencing.", North American Rust Workers Meeting (NARW), St. Paul, MN, USA, June 12, 2011. (Presentation)

2009

Lévesque, C.A., Seifert, K.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2009). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 7th Annual CRTI Summer Symposium 2009, Ottawa, ON, Canada, June 16-18, 2009, pp. 10-11.

2008

Hambleton, S., Parmelee, J.A., Liu, M., Tropiano, R., and Bergeron, J. (2008). "Cedar-apple rust revisited: an unusual species of Gymnosporangium on crab-apple.", *Canadian Journal of Plant Pathology*, 34(1), pp. 122. (Abstract)

Conner, R.L. and Hambleton, S. (2008). "Early detection of Asian soybean rust.", *Pulse Beat*, 55, pp. 23.

Lévesque, C.A., Seifert, K.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2008). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 6th Annual Public Security S&T Summer Symposium, Sheraton Hotel, Edmonton, AB, Canada, June 9-12, 2008, pp. 79-80.

2007

Seifert, K.A., Hambleton, S., Renaud, M.-A., Samson, R.A., Houbraken, J.A.M.P., Chen, W., and Lévesque, C.A. (2007). "Development of new molecular methods for detecting food-borne molds.", *Food Mycology 2007: Emerging Mold Problems and Spoilage in Food and Beverages*, Westin Key West Resort & Marina, Key West, FL, USA, June 7-8, 2007, pp. 12-15.

Seifert, K.A., Lévesque, C.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2007). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 5th Annual CRTI Summer Symposium 2007: Building Resiliency: from Concept to Operations, Château Cartier Resort, Gatineau, QC, Canada, June 11-15, 2007, pp. 79-80.

Liu, M., Tropiano, R., McCabe, E., Bergeron, J., and Hambleton, S. (2007). "Challenges in the identification of the causal pathogen of stripe rusts.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 135, P1-26. (Poster)

Bruckart, W.L., McClay, A.S., Hambleton, S., Tropiano, R., and Hill-Rackette, G. (2007). "First Report of Puccinia lagenophorae on Common Groundsel (*Senecio vulgaris*) in Canada.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 130, P1-9. (Poster)

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Research Publications:

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Hannoufa, A., Aung, B., Wang, Y., Amyot, L., Wei, S., and Gruber, M.Y. (2014). "MicroRNA156 regulates yield in *Arabidopsis* and alfalfa.", Keystone Stone Symposium: RNA Silencing, Seattle WA, USA. (Poster)

Gruber, M.Y., Hannoufa, A., Aung, B., Wang, Y., Amyot, L., Yu, M., and Wei, S. (2014). "miR156 is a Key to Improving Biomass Yield in Alfalfa.", 2014 Plant and Animal Genomics Conference, San Diego, CA, USA. (Presentation)

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Aung, B., Gruber, M.Y., Amyot, L., Keyghobadi, N., and Hannoufa, A. (2013). "Overexpression of microRNA156 leads to enhanced forage yield in alfalfa.", 2013 Eastern Regional Meeting of the Canadian Society of Plant Biologists, Mississauga, ON, Canada, December 6-7, 2013. (Presentation)

Lakshminarayan, S., Bernards, M.A., Tian, L.-N., Qubbaj, T., and Hannoufa, A. (2013). "Analysis of Arabidopsis plants overexpressing carotenoid cleavage dioxygenases for volatile emissions and insect resistance.", 2013 Eastern Regional Meeting of the Canadian Society of Plant Biologists, Mississauga, ON, Canada, December 6-7, 2013. (Presentation)

Hannoufa, A. (2013). "Reducing levels of antinutritional factors in camelina seed.", Presented via videoconference to Linnaeus Plant Sciences, London (ON)-Saskatoon (SK), Canada, September 26, 2013. (Presentation)

Emami Meybodi, D. and Hannoufa, A. (2013). "Establishing the link between miR156/SPL15 and carotenoid accumulation in Arabidopsis.", 2013 Eastern Regional Meeting of the Canadian Society of Plant Biologists, Mississauga, ON, Canada, December 6-7, 2013. (Presentation)

Wang, Y., Amyot, L., Xu, Z., Tian, L.-N., and Hannoufa, A. (2013). "MicroRNA156 regulates plant development and nodulation in Lotus japonicus.", 2013 Eastern Regional Meeting of the Canadian Society of Plant Biologists, Mississauga, ON, Canada, December 6-7, 2013. (Poster)

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Ben Abdallah, S., Amyot, L., Lachâal, M., Karray Bouraoui, N., and Hannoufa, A. (2013). "Salt stress affects accumulation of flavonoids and carotenoids in *Solanum nigrum*.", Biology Graduate Students Forum, Western University, London, ON, Canada, October 19, 2013. (Poster)

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Research Publications:

2012

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Research Publications:

2014

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Balcerzak, M., Schneiderman, D., Johnson, A., Harris, L.J., and Ouellet, T. (2010). "Transcriptome Analysis Of *Fusarium Graminearum* During Infection of Three Monocot Hosts.", 11th European Fusarium Seminar: Fusarium Mycotoxins, Taxonomy, Pathogenicity and Host Resistance, Plant Breeding and Acclimatization Institute (IHAR), Radzików, Poland, September 20-23, 2010, Poster #1. (Poster)

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Research Publications:

2011

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Harker, D.B., Clearwater, L., Broersma, K., Chow, L., Hebb, D., Lapen, D.R., Miller, J.J., Scott, T.A., Stuart, V., van Bochove, É., and Yarotski, J.B. (2010). "Watershed Evaluation of Beneficial Management Practices: Lessons Learned Measuring Landscape Processes in Canada.", *Managing agricultural landscapes for environmental quality II*, pp. 121-130.

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Research Publications:

2014

Donly, B.C., Theilmann, D.A., Hegedus, D.D., Baldwin, D., and Erlandson, M.A. (2014). "Mamestra configurata nucleopolyhedrovirus-A transcriptome from infected host midgut.", *Virus Genes*, 48(1), pp. 174-183. doi : 10.1007/s11262-013-0986-z

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Research Publications:

2014

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Research Publications:

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Research Publications:

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Research Publications:

2013

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Hou, A., Marsolais, F., Pajak, A., and Conner, R.L. (2013). "Genetic improvement of protein quality in edible beans with adaptation to Manitoba. Poster presentation.", Bean Improvement Cooperatives, Portland, OR, USA, October 28-30, 2013. (Poster)

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Research Publications:

2013

Yang, J.Y., Drury, C.F., De Jong, R., Huffman, E.C., Yang, X.M., and Reid, D.K. (2013). "Sensitivity analysis for nitrogen inputs, nitrogen outputs, and changes in biofuel crop acreages for predicting residual soil nitrogen and nitrate leaching in Canadian agricultural soils.", *Ecological Modelling*, 267, pp. 26-38. doi : 10.1016/j.ecolmodel.2013.07.016

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Drury, C.F., Yang, J.Y., DeJong, R., Huffman, E.C., Kirkwood, V., and Reid, D.K. (2007). "Residual soil nitrogen indicator for agricultural land in Canada.", *Canadian Journal of Soil Science*, 87(Spec. Issue), pp. 167-177. doi : 10.4141/S06-064

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2014

Shang, J., Huffman, E.C., Liu, J., Ma, B.-L., Zhao, T., Qian, B., McNairn, H., Geng, X.Y., Lantz, N., and Wang, J. (2014). "Using Earth Observation to Monitor Corn Growth in Eastern Canada.", 68th North Eastern Corn Improvement Conference, Wooster, Ohio, USA, February 13-14, 2014.

2012

Liu, H.L., Huffman, E.C., and Daneshfar, B. (2012). "A method of defining agricultural Uniform Management Zones using remote sensing and land use data.", 33rd Canadian Symposium on Remote Sensing, Ottawa, ON, Canada, June 11-14, 2012.

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Drury, C.F., Yang, J.Y., DeJong, R., Huffman, E.C., Yang, X.M., Reynolds, W.D., and Reid, D.K. (2011). "Validating the Residual Soil Nitrogen Indicator.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011.

Chang, K.-H., Warland, J.S., Bartlett, P., Voroney, P.R., Huffman, E.C., McConkey, B.G., and Desjardins, R.L. (2011). "Accounting carbon and GHGs in agriculture and forest ecosystems using process-based models.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011.

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Research Publications:

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Research Publications:

2013

Reti, K.L., Thomas, M.C., Yanke, L.J., Selinger, L.B., and Inglis, G.D. (2013). "Effect of antimicrobial growth promoter administration on the intestinal microbiota of beef cattle.", *Gut Pathogens*, 5:8. doi : 10.1186/1757-4749-5-8

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Inglis, G.D., Uwiera, R.R.E., Boras, V.F., Suttorp, V.V., Taboada, E.N., Koegler, D.P., and Kastelic, J.P. (2012). "The campylobacteriosis enigma: a 'One Health' approach.", FutureFare meeting, Alberta Livestock and Meat Agency Ltd., Calgary, AB, Canada, June 2012. (Presentation)

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Research Publications:

2014

Iwaasa, A.D., Jefferson, P.G., and Birkedal, E. (2014). "Beef cattle grazing behaviour differs among diploid and tetraploid crested wheatgrasses (*Agropyron cristatum*) and (*A. desertorum*).", *Canadian Journal of Plant Science*. doi : 10.4141/CJPS2013-373

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Steppuhn, H., Acharya, S.N., Iwaasa, A.D., Gruber, M.Y., and Miller, D.R. (2012). "Inherent responses to root-zone salinity in nine alfalfa populations.", *Canadian Journal of Plant Science*, 92(2), pp. 235-248. doi : 10.4141/CJPS2011-174

Iwaasa, A.D., Schellenberg, M.P., and McConkey, B.G. (2012). "Re-establishment of Native Mixed Grassland Species into Annual Cropping Land.", *Prairie Soils and Crops*, 5, pp. 85-95.

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Patel, M., Wredle, E., Börjesson, G., Danielsson, R., Iwaasa, A.D., Spörndly, E., and Bertilsson, J. (2011). "Enteric methane emissions from dairy cows fed different proportions of highly digestible grass silage.", *Acta Agriculturae Scandinavica, Section A Animal Science*, 61(3), pp. 128-136. doi : 10.1080/09064702.2011.616216

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McGinn, S.M., Chung, Y.-H., Beauchemin, K.A., Iwaasa, A.D., and Grainger, C.M. (2009). "Use of corn distillers' dried grains to reduce enteric methane loss from beef cattle.", *Canadian Journal of Animal Science*, 89(3), pp. 409-413. doi : 10.4141/CJAS08133

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Iwaasa, A.D., Li, Y., and Wang, Y. (2013). "Forage and grazing evaluations of purple prairie clover (*Dalea purpurea* Vent.) and white prairie clover (*Dalea candida* Michx. ex Willd) at AAFC-SPARC.", Intermountain native plant summit VII, Boise State University, March 26-27, 2013.

Cade-Menun, B.J., McConkey, B.G., Iwaasa, A.D., and Lardner, H.A. (2013). "The effect of in-field winter bale grazing on soil nutrients in pastures in Saskatchewan.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.

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Iwaasa, A.D., Li, Y., Muri, R., Jin, Y., Schellenberg, M.P., and Biligetu, B. (2012). "Evaluation of the forage and seed characteristics of purple prairie clover (*Dalea purpurea* Vent.) and white prairie clover (*Dalea candida* Michx. Ex. Willd.).", 2012 Native Prairie Restoration/Reclamation Workshop, TCU Place, Saskatoon, SK, Canada, February 8-9, 2012. (Poster)

Iwaasa, A.D., McLeod, G.J., Schellenberg, M.P., Muri, R., and Biligetu, B. (2012). "Opportunities await for native and tame forage research at the Semiarid Prairie Agricultural Research Centre (SPARC) Agriculture and Agri-Food Canada (AAFC).", 2012 Native Prairie Restoration/Reclamation Workshop, TCU Place, Saskatoon, SK, Canada, February 8-9, 2012. (Poster)

Iwaasa, A.D. and Schellenberg, M.P. (2012). "AAFC-SPARC long term grazing and forage production on re-established native grasslands in Southern Saskatchewan.", 2012 Native Prairie Restoration/Reclamation Workshop, TCU Place, Saskatoon, SK, Canada, February 8-9, 2012.

Jin, L., Xu, Z.J., Iwaasa, A.D., Zhang, Y.G., Schellenberg, M.P., McAllister, T.A., and Wang, Y. (2012). "Mixing purple prairie clover with alfalfa reduced alfalfa N transforming to ammonia-N.", Joint Annual Meeting, American Dairy Science Association, Poultry Science Association, American Milk Producers Association, Canadian Society of Animal Science, and American Society of Animal Science, Phoenix, Arizona, USA, July 15-19, 2012.

Jin, L., Xu, Z., Iwaasa, A.D., Zhang, Y.G., Schellenberg, M.P., and Wang, Y. (2012). "Mixing purple prairie clover with alfalfa reduced alfalfa N transforming to ammonia-N.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012, W118. (Abstract)

Steppuhn, H., Iwaasa, A.D., Holzer, J., Johnson, D.W., and Ulmer, M. (2012). "Increasing the salinity tolerance of alfalfa to improve the effectiveness of agronomic-hydrologic practices for controlling root-zone salinization.", 2012 ASABE Annual International Meeting, Hilton Anatole Dallas, Dallas, TX, USA, July 29-August 1, 2012, Paper Number: 12-1338231, pp. 3306-3322.

2011

Jin, L., Zhang, Y.G., Iwaasa, A.D., Schellenberg, M.P., Xu, Z.J., McAllister, T.A., and Wang, Y. (2011). "Effect of incorporation of purple prairie clover (*Petalostemon purpureum*) into cool season grasses mixture on *in vitro* ruminal fermentation.", 60th Annual Meeting of the Canadian Society of Animal Science (CSAS), Atlantica Hotel, Halifax, NS, Canada, May 4-5, 2011, FPE-3. (Poster)

Jin, L., Xu, Z.J., Iwaasa, A.D., Zhang, Y.G., Schellenberg, M.P., McAllister, T.A., and Wang, Y. (2011). "Effect of tannins on *in vitro* ruminal degradability of purple prairie clover (*Petalostemon purpureum*) harvested at two growth stages in the DaisyII Fermentation System.", ADSA-PSA-AMPA-CSAS-ASAS 2011 Joint Annual Meeting, New Orleans, LA, USA, July 11-14, 2011, T356. (Poster)

Jin, L., Xu, Z.J., Iwaasa, A.D., Zhang, Y.G., Schellenberg, M.P., McAllister, T.A., and Wang, Y. (2011). "Effect of tannins on *in vitro* ruminal degradability of purple prairie clover (*Petalostemon purpureum*) harvested at two growth stages in the DaisyII Fermentation System.", *Journal of Animal Science*, 89(E-Suppl. 1), pp. 387. (Abstract)

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Schellenberg, M.P., Biligetu, B., and Iwaasa, A.D. (2011). "Botanical composition of seeded simple and complex native forage mixtures following grazing.", IX International Rangeland Congress IRC2011: Diverse Rangelands for a Sustainable Society, Rosario, Argentina, April 2-8, 2011, pp. 393.

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Cade-Menun, B.J., McConkey, B.G., Iwaasa, A.D., and Lardner, H.A. (2011). "Nutrient loss in snowmelt runoff from cattle winter bale-grazing in SW Saskatchewan.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011.

Iwaasa, A.D. (2011). "Purple prairie clover may reduce *E. coli* in cattle.", *Western Producer*.

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Acharya, S.N., Iwaasa, A.D., McAllister, T.A., Wang, Y., and Thomas, J. (2011). "Animal performance and incidence of bloat in mixed alfalfa/sainfoin grazing.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011.

Lemke, R.L., Iwaasa, A.D., Baron, V.S., Farrell, R.E., and Schoenau, J.J. (2011). "Quantifying nitrous oxide emissions resulting from beef cattle urine and dung on semiarid pasture.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011.

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Iwaasa, A.D. (2011). "Sainfoin.", *Saskatchewan Stock Growers Association (SSGA) magazine*.

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Research Publications:

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Research Publications:

2014

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McGeough, E.J., Little, S.M., Janzen, H.H., McAllister, T.A., McGinn, S.M., and Beauchemin, K.A. (2013). "Greenhouse gas emissions from dairying in Eastern Canada – Effects of varying dairy cow replacement rate.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P42, pp. 42. (Poster)

Flaten, D.N., Janzen, H.H., Ominski, K.H., and Taylor, A.A. (2013). "Video-conferencing to deliver a graduate course on agricultural sustainability.", Joint annual meetings of the Canadian Society of Soil Science, Manitoba Soil Science Society, and Canadian Society of Agricultural and Forest Meteorology, Fort Garry Hotel, Winnipeg, MB, Canada, July 22-25, 2013, Oral presentation.

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Beauchemin, K.A., McGeough, E.J., and Janzen, H.H. (2011). "Life cycle assessment A holistic approach to assessing greenhouse gas emissions from beef and dairy production.", 1st Joint meeting of the American Society of Animal Science and the Association Argentina de Production Animal, Mar del Plata, Argentina, October 4-7, 2011. (Presentation)

Beauchemin, K.A., McGeough, E.J., Little, S.M., Janzen, H.H., McAllister, T.A., McGinn, S.M., and Maclean, K. (2011). "GHG modelling activities: an overview.", Seminar on Greenhouse Gases from Agriculture, Norwegian University of Life Sciences, Norway, June 29, 2011. (Presentation)

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Gan, Y.T., Campbell, C.A., Janzen, H.H., Liu, L.P., Basnyat, P., and McDonald, C.L. (2008). "Pulse crop root systems: growth and distribution in soil profile.", 7th Canadian Pulse Research Workshop, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 4-7, 2008, pp. 124-125. (Workshop)

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Research Publications:

2013

Kennedy, C.M., Lonsdorf, E., Neel, M.C., Williams, N.M., Ricketts, T.H., Winfree, R., Bommarco, R., Brittain, C., Burley, A.L., Cariveau, D., Carvalheiro, L.G., Chacoff, N.P., Cunningham, S.A., Danforth, B.N., Dudenhöffer, J.-H., Elle, E., Gaines, H.R., Garibaldi, L.A., Gratton, C., Holzschuh, A., Isaacs, R., Javorek, S.K., Jha, S., Klein, A.M., Kremen, C., Mandelik, Y., Mayfield, M.M., Morandin, L., Neame, L.A., Otieno, M., Park, M., Potts, S.G., Rundlöf, M., Saez, A., Steffan-Dewenter, I., Taki, H., Viana, B.F., Westphal, C., Wilson, J.K., Greenleaf, S., and Kremen, C. (2013). "A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems.", *Ecology Letters*, 16(5), pp. 584-599. doi : 10.1111/ele.12082

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Other Science Related Publications:

2012

Javorek, S.K. (2012). "The Relationship between Landscape Pattern and Native Bees in PEI.", PEI Blueberry Growers Association Annual Meeting, Charlottetown, PEI, Canada, April 12, 2012.

Pernal, S.F., Cardinal, S., and Javorek, S.K. (2012). "The Importance, Diversity and Status of Canada's Pollinator Resources: A Synthesis of Current AAFC Research.", Agriculture and Agri-Food Canada (AAFC) Research Branch Speaker Series, National Headquarters Complex for the Agriculture Portfolio (NHCAP), Ottawa, ON, Canada, June 26, 2012. (Presentation)

2011

Javorek, S.K. and Grant, M.C. (2011). Trends in wildlife habitat capacity on agricultural land in Canada, 1986-2006. Canadian Biodiversity: Ecosystem Status and Trends 2010, Technical Thematic Report No. 14., Canadian Councils of Resource Ministers, Ottawa. (Report)

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Research Publications:

2014

Sansoulet, J.B., Pattey, E., Kröbel, R., Grant, B.B., Smith, W.N., Jégo, G., Desjardins, R.L., Tremblay, N., and Tremblay, G. (2014). "Comparing the performance of STICS, DNDC and DayCent models for predicting N uptake and biomass of spring wheat in Eastern Canada.", *Field Crops Research*, 156, pp. 135-150. doi : 10.1016/j.fcr.2013.11.010

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2013

Nyiraneza, J., Peters, R.D., Rodd, A.V., Grimmett, M.G., Zebarth, B.J., Ziadi, N., Bélanger, G., and Jégo, G. (2013). "Soil N supply and potato yield as affected by Crop Rotations and N sources.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013, #038.

Nyiraneza, J., Peters, R.D., Rodd, A.V., Grimmett, M.G., Zebarth, B.J., Ziadi, N., Bélanger, G., and Jégo, G. (2013). "Impact of Crop Rotations, and Mineral and Organic N fertilizer on Soil Nitrogen Availability and Potato Yield.", Northeast Potato Technology Forum 2013, Delta Prince Edward, Charlottetown, PEI, Canada, March 5-6, 2013.

2012

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Sansoulet, J.B., Pattey, E., Jégo, G., Kröbel, R., Grant, B.B., Smith, W.N., Tremblay, N., and Tremblay, G.F. (2012). "Comparing STICS, DNDC and DAYCENT model simulations to assess the impacts of fertilization and climate variations on N uptake and biomass production from spring wheat in Eastern Canada.", IXe Séminaire du modèle de culture STICS, Sainte-Montaine, France, October 16-19, 2012.

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Liu, J., Pattey, E., and Jégo, G. (2012). "Assessment of vegetation indices for mapping and monitoring crop green LAI over multiple growing seasons.", 33rd Canadian Symposium on Remote Sensing, Ottawa, ON, Canada, June 11-14, 2012. (Poster)

Pattey, E., Jégo, G., Sansoulet, J.B., Liu, J., Duchesne, I., Tremblay, N., and Beaudoin, N. (2012). "Performance de STICS à prédire la productivité du maïs grain en réponse aux variations climatiques dans l'est du Canada. 1) Réinitialisation à l'aide du LAI extrait de LANDSAT pour prédire des rendements spatialisés ; 2) simulation de la réponse à la fertilisation azotée.", IXe Séminaire du modèle de culture STICS, Sainte-Montaine, France, October 16-19, 2012.

Jégo, G., Pattey, E., and Liu, J. (2012). "Using Leaf Area Index, retrieved from optical imagery, in the STICS crop model for predicting yield and biomass of field crops.", 30th Conference on Agricultural and Forest Meteorology and 1st Conference on Atmospheric Biogeosciences, Boston, MA, USA, May 31-June 1, 2012. (Presentation)

Pattey, E., Jégo, G., Liu, J., Desjardins, R.L., Worth, D.E., and Srinivasan, R. (2012). "Importance of spatially distributed rainfall for agriculture models Regional crop biomass and yield predictions and other environmental applications.", 5th International Workshop for Global Precipitation Management Ground Validation, Toronto, ON, Canada, July 10-12, 2012. (Poster)

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Liu, J., Pattey, E., and Jégo, G. (2011). "Evaluation of MTVI2 to estimate crop green LAI over the growing season from Landsat images.", 32nd Canadian Symposium on Remote Sensing/14e Congrès de l'association québécoise de télédétection, Bishops University, Lennoxville, QC, Canada, June 13-16, 2011. (Poster)

Pattey, E., Jégo, G., Liu, J., and Duschenay, I. (2011). "Assimilation of earth observation data for predicting crop biomass over a small region.", 3rd Integrated Land Ecosystem Atmosphere Processes Study (iLEAPS) Science Conference, Garmisch-Partenkirchen, Germany, September 17-23, 2011. (Poster)

Pattey, E., Jégo, G., and Liu, J. (2011). "Toward assimilation of hyperspectral reflectance data into field crop models: case of Monteith (RUE) and STICS models.", FLUXNET and Remote sensing open workshop: Towards upscaling Flux Information from Towers to the Globe, Berkeley, CA, USA, June 7-9, 2011. (Poster)

2009

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Research Publications:

2014

Li, Q., Xing, Z.S., Danielescu, S., Jiang, Y., and Meng, F. (2014). "Data requirements for using combined conductivity mass balance and recursive digital filter method to estimate groundwater recharge in a small watershed New Brunswick, Canada.", *Journal of Hydrology*, 511, pp. 658-664. doi : 10.1016/j.jhydrol.2014.01.073

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2011

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Jiang, Y. and Woodbury, A.D. (2011). "Full-Bayesian, simple zoned inversion and transmissivity assessment of the Edwards Aquifer, Texas, USA.", in Wang, Y., Ge, S., Hill, M.C. and Zheng, C. (eds.) *Calibration and Reliability in Groundwater Modelling: Managing Groundwater and the Environment. Proceedings of a Conference held in Wuhan, China, September 20-23, 2009*. IAHS Publ. 341, International Association of Hydrological Sciences (IAHS), pp. 21-26.

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Other Science Related Publications:

2013

Bugden, G., Jiang, Y., van den Heuve, M.R., Vandermeulen, H., MacQuarrie, K.T.B., Crane, C., and Raymond, B. (2013). Nitrogen loading criteria for estuaries in Prince Edward Island, Canadian Technical Report of Fisheries and Aquatic Sciences 3066, DFO. (Report)

Jiang, Y., Nyiraneza, J., Jamieson, T., Murray, B., Grimmitt, M.G., Somers, G.H., and Thompson, B. (2013). "Delayed plowing of forages within potato rotation reduces nitrate leaching.", American Geophysical Union 2013 Fall Meeting, San Francisco, USA, December 9-13, 2013. (Abstract)

Jiang, Y. (2013). "Modeling impacts of groundwater extractions for irrigation on stream flow in PEI.", Groundwater Extractions for Irrigation Workshop, PEI, Canada, November 30, 2013. (Presentation)

Jiang, Y. (2013). "Effects of nitrate reduction BMPs on groundwater quality.", 7th Canadian River Heritage Conference, Charlottetown, PEI, Canada.

Jiang, Y. (2013). "Nitrate reduction BMPs vs. groundwater quality in PEI.", 2013 Canadian Water Network Project Workshop, Wolfville, NS, Canada. (Presentation)

Jiang, Y. (2013). "Evaluation of fall vs. spring plowing of forages on nitrate leaching in Souris, PEI.", Atlantic WEBs Project Closing Meeting, Fredericton, NB, Canada. (Presentation)

Jamieson, T. and Jiang, Y. (2013). "Effects of fall vs. spring plowing of forages on nitrate leaching in Souris, PEI.", WEBs Technical Transfer Meeting, Souris, PEI, Canada. (Presentation)

2011

Jiang, Y. and Somers, G.H. (2011). "Watershed Evaluation of Beneficial Management Practices (WEBs) in the Souris River Watershed, Prince Edward Island: Site Hydrogeology.", Joint Meeting of the Canadian Quaternary Association and the Canadian Chapter of the International Association of Hydrogeologists (CANQUA-IAH), Québec City, QC, Canada, August 28-31, 2011. (Presentation)

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Jiang, Y., Zebarth, B.J., and Love, J. (2010). "Simulation of nitrate leaching from a potato production system in Prince Edward Island, Canada : model calibration and verification.", 65th Annual International Conference of the Soil and Water Conservation Society (SWCS), St. Louis, MO, USA, July 18-21, 2010, Poster #49. (Poster)

2009

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Research Publications:

2013

Harker, K.N., O'Donovan, J.T., Turkington, T.K., Blackshaw, R.E., Johnson, E.N., Brandt, S.A., Kutcher, H.R., and Clayton, G.W. (2013). "Weed interference impacts and yield recovery after four years of variable crop inputs in no-till barley and canola.", *Weed Technology*, 27(2), pp. 281-290. doi : 10.1614/WT-D-12-00115.1

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2012

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Lemke, R.L., Malhi, S.S., Johnson, E.N., Brandt, S.A., Zentner, R.P., and Olfert, O.O. (2012). "Alternative Cropping Systems Study Scott, Saskatchewan.", *Prairie Soils and Crops*, 5, pp. 74-84.

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Beckie, H.J., Johnson, E.N., and Légère, A. (2012). "Negative cross-resistance of acetolactate synthase inhibitor-resistant kochia (*Kochia scoparia*) to protoporphyrinogen oxidase and hydroxyphenylpyruvate dioxygenase-inhibiting herbicides.", *Weed Technology*, 26(3), pp. 570-574. doi : 10.1614/WT-D-12-00020.1

Szmigielski, A.M., Schoenau, J.J., Johnson, E.N., Holm, F.A., and Sapsford, K.L. (2012). "Determination of thien carbazonone in soil by oriental mustard root length bioassay.", *Weed Science*, 60(3), pp. 468-473. doi : 10.1614/WS-D-11-00054.1

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Shirliffe, S.J. and Johnson, E.N. (2012). "Progress towards no-till organic weed control in western Canada.", *Renewable Agriculture and Food Systems*, 27(1), pp. 60-67. doi : 10.1017/S1742170511000500

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Blackshaw, R.E., Hao, X., Brandt, R.N., Clayton, G.W., Harker, K.N., O'Donovan, J.T., Johnson, E.N., and Vera, C.L. (2011). "Canola response to ESN and urea in a four-year no-till cropping system.", *Agronomy Journal*, 103(1), pp. 92-99. doi : 10.2134/agronj2010.0299

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Smith, E.G., Favret, M.L., Clayton, G.W., Blackshaw, R.E., Brandt, S.A., Johnson, E.N., Harker, K.N., O'Donovan, J.T., Kutcher, H.R., and Vera, C.L. (2010). "The profitability of seeding the F₂ generation of hybrid canola.", *Agronomy Journal*, 102(2), pp. 598-605. doi : 10.2134/agronj2009.0101

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Other Science Related Publications:

2013

Johnson, E.N. (2013). "Mustard weed control: Are we making progress?", Saskatchewan Mustard Development Commission Annual Meeting, Saskatoon, SK, Canada, January 9, 2013. (Presentation)

McAllister, T.A., He, M.L., McKinnon, J.J., Nair, J., Johnson, E.N., and Cheng, B.F. (2013). "*Canola juncea* new meal in town.", Saskatchewan Beef and Forage Symposium, Saskatoon, SK, Canada, January 24, 2013. (Presentation)

Johnson, E.N. (2013). "Carinata agronomy and production research in Saskatchewan.", Carinata Day Producer Meeting, Swift Current, SK, Canada, March 26, 2013. (Presentation)

Johnson, E.N. (2013). "Weed management.", published in *Carinata: A Guide to Best Management Practices.*, 14 pages.

Szmigielski, A.M., Schoenau, J.J., and Johnson, E.N. (2013). "Bioactivity and dissipation of pyroxasulfone herbicide in Saskatchewan soils.", 66th Annual Meeting of the Western Society of Weed Science, Catamaran Resort, San Diego, CA, USA, March 11-14, 2013. (Poster)

2012

Johnson, E.N. (2012). "Efficacy of fall and spring applications of pyroxasulfone.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012, pp. 57. (Poster)

Pajic, V., Holm, F.A., Sapsford, K.L., Johnson, E.N., and Vandenberg, A. (2012). "Developing sulfentrazone and fluthiacet-methyl tolerance in lentil.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012, pp. 41. (Poster)

Johnson, E.N., Beckie, H.J., Hall, L.M., Laturus, B.D., Willenborg, C.J., Sapsford, K.L., Schoenau, G.J., and Szmigielski, A.M. (2012). "The potential for Group 15 herbicides in managing herbicide resistant weeds in pulses.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012, pp. 30.

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Johnson, E.N., Beckie, H.J., Willenborg, C.J., Sapsford, K.L., Vandenberg, A., Schoenau, J.J., Hall, L.M., and Laturus, B.D. (2012). "Progress in managing herbicide resistance in pulse crops.", Pulse Science Cluster Scientific Meeting 2012, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 5, 2012. (Presentation)

Sapsford, K.L., Johnson, E.N., and Vandenberg, A. (2012). "Searching for improved lentil tolerance to ppo inhibitor herbicides.", 2012 Western Society of Weed Science Annual Meeting, Reno, NV, USA, March 12-14, 2012. (Abstract)

Johnson, E.N., Hall, L.M., Laturus, B.D., Beckie, H.J., Sapsford, K.L., and Willenborg, C.J. (2012). "Pyroxasulfone application timing and efficacy on cleavers (*Galium aparine*) and wild oats (*Avena fatua*).", Canadian Weed Science Society 66th Annual Meeting, Fairmont Hotel, Winnipeg, MB, Canada, November 12-15, 2012, pp. 18. (Abstract)

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Research Publications:

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Research Publications:

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Research Publications:

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- Judd, G.J.R. (2013). "Managing apple clearwing moth.", Okanagan Tree Fruit Company Grower Field Day, Summerland, British Columbia, Canada, May 7, 2013. (Presentation)
- Judd, G.J.R. (2013). Topic Management of Apple Clearwing Moth CBC Radio Kelowna Morning Show Broadcast; Kelowna Capital News Article; British Columbia Fruit Grower Magazine Article. (Report)
- Judd, G.J.R. (2013). "Okanagan-Kootenay sterile insect release program: a Canadian success story.", Invited University Lecture for Department of Biological Sciences, University of Alberta, Edmonton, Alberta, Canada, February 15, 2013. (Presentation)
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- Evenden, M.L., Aurelian, V.M., and Judd, G.J.R. (2012). "Assessment of mass trapping with kairomones and pheromones against the apple clearwing moth, *Synanthedon myopaeformis*.", XXIV International Congress of Entomology, Daegu, South Korea, August 19-25, 2012, pp. (Abstract).
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- Eby, C., Gardiner, M.G.T., Gries, R., Judd, G.J.R., and Gries, G. (2011). "Identifying feeding attractants from showy milkweed flowers for potential control of the apple clearwing moth.", Entomological Society of BC Annual General Meeting, Abbotsford, BC, Canada, October 14, 2011. (Presentation)
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Research Publications:

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Research Publications:

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Other Science Related Publications:

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Shastri, P., McCarville, J.L., Brooks, S.P.J., Kalmokoff, M.L., and Green-Johnson, J.M. (2013). "Effects of dietary fructo-oligosaccharides on gender-based differences in gut mucosal cytokines.", *Cytokine*, 63(3), pp. 298. (Abstract)

Clarke, S.T., Kalmokoff, M.L., Brooks, S.P.J., Bercik, P., Ramdath, D.D., and Green-Johnson, J.M. (2013). "Evaluating influences of fructans on cytokine and immunoglobulin production in a human clinical trial.", *Cytokine*, 63(3), pp. 255. (Abstract)

Clarke, S.T., Kalmokoff, M.L., Brooks, S.P.J., Avila, C., Bercik, P., Ramdath, D.D., and Green-Johnson, J.M. (2013). "Investigating effects of fructans on host and immune parameters in a human clinical trial.", EFFoST Annual Meeting: Bio-based Technologies in the Context of European Food Innovation Systems, Bologna, Italy, November 12-15, 2013. (Presentation)

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Talbot, G., Barret, M., Gagnon, N., Kalmokoff, M.L., Topp, E., and Neufeld, J.D. (2012). "*Methanoculleus* spp. Are major contributors to methane emissions in swine and dairy manure storage tanks.", Canadian Society of Microbiologists (CSM) 62nd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Vancouver, BC, Canada, June 20-23, 2012, Abstract AE076.

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Brooks, S.P.J., Green-Johnson, J.M., Inglis, G.D., Uwiera, R.R.E., and Kalmokoff, M.L. (2011). "Gut microbiology – a relatively unexplored domain.", in Moo-Young, M. et al. (eds.) *Comprehensive Biotechnology*, 2nd Edition. Vol. 4, Pergamon Press, Oxford, UK & New York, USA, pp. 575-590.

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Shastri, P., Brooks, S.P.J., Kalmokoff, M.L., Green, J., Chomyshyn, E., and Green-Johnson, J.M. (2011). "Host microbe interaction: Does gender influence immune changes mediated by dietary fibre?", Annual Meeting Canadian Society of Microbiology 61st Annual Conference, Memorial University, St. John's, NL, Canada, June 20-23, 2011. (Presentation)

Talbot, G., Barret, M., Massé, D.I., Masse, L., Kalmokoff, M.L., and Topp, E. (2011). "Methanogenesis in dairy and swine production.", 1er Symposium du Centre de recherche et de développement sur le bovin laitier et le porc: Parlons science au CRDBLP! / 1st Symposium of the Dairy and Swine Research and Development Centre: Let's Talk Science at the DSRDC!, Sherbrooke, QC, Canada, June 7, 2011.

Kalmokoff, M.L., Waddington, L.M., Thomas, M.B., Liang, K.-L., Ma, C., Topp, E., Desranleau Dandurand, U., Letellier, A., Matias, F., and Brooks, S.P.J. (2011). "Continuous feeding of antimicrobial growth promoters to commercial swine during the growing/finishing phase does not modify faecal community erythromycin resistance of community structure.", Joint UK-Canada gut health meeting, Guelph & St Hyacinthe, Canada, February, 2011. (Presentation)

Barret, M., Neufeld, J.D., Gagnon, N., Kalmokoff, M.L., Topp, E., Verastegui, Y., and Talbot, G. (2011). "Identification of the active methanogens in swine manure storage tanks by DNA Stable Isotope Probing.", 1er Symposium du Centre de recherche et de développement sur le bovin laitier et le porc: Parlons science au CRDBLP! / 1st Symposium of the Dairy and Swine Research and Development Centre: Let's Talk Science at the DSRDC!, Sherbrooke, QC, Canada, June 7, 2011.

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Talbot, G., Topp, E., Kalmokoff, M.L., Roy, C.S., Brooks, S.P.J., Beaulieu, C., and Massé, D.I. (2010). "Archaeal community analysis along a plug-flow bioreactor treating swine manure.", Canadian Society of Microbiologists (CSM) 60th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Hamilton, ON, Canada, June 14-17, 2010.

Gagnon, N., Topp, E., Kalmokoff, M.L., Masse, L., Massé, D.I., and Talbot, G. (2010). "Novel fingerprint technology to assess the diversity of methanogens.", 13th International Symposium on Microbial Ecology (ISME13), Seattle, WA, USA, August 22-27, 2010. (Abstract)

Waddington, L., Kwan, J., Kendall, C., Jenkins, D., Truelstrup-Hansen, L., Brooks, S.P.J., and Kalmokoff, M.L. (2010). "Diets enriched in fructans and/or soy alters the fecal community differentially among human subjects.", AFMnet annual conference, Guelph, ON, Canada, 2010. (Presentation)

Kalmokoff, M.L., Waddington, J., Green, J., and Brooks, S.P.J. (2010). "Phylogenetic and microscopic analysis of biofilm formation on wheat bran isolated from the rat fecal community.", International Meeting on Probiotics and Prebiotics, Kosice, Slovakia, August, 2010. (Presentation)

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Waddington, L., Kwan, J., Kendall, C., Jenkins, D., Wong, J., Truelstrup-Hansen, L., Brooks, S.P.J., and Kalmokoff, M.L. (2009). "Diets Enriched in Fructans and/or Soy Alter the Faecal Community Differentially Among Human Subjects.", 2009 AFMnet annual general meeting, Vancouver, Canada, 2009. (Presentation)

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Research Publications:

2014

Kalt, W., Liu, Y., McDonald, J.E., Vinqvist-Tymchuk, M.R., and Fillmore, S.A.E. (2014). "Anthocyanin metabolites are abundant and persistent in human urine.", *Journal of Agricultural and Food Chemistry*, 62(18), pp. 3926-3934. doi : 10.1021/jf500107j

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Shukitt-Hale, B., Kalt, W., Carey, A.N., Vinqvist-Tymchuk, M.R., McDonald, J.E., and Joseph, J.A. (2009). "Plum juice, but not dried plum powder, is effective in mitigating cognitive deficits in aged rats.", *Nutrition*, 25(5), pp. 567-573. doi : 10.1016/j.nut.2008.10.018

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Fan, L., Kalt, W., Doucette, C., Hughes, T., Song, J., Chen, S., Zhang, H., and Fillmore, S.A.E. (2013). "Characterization of heat resistant fungus, *Byssoschlamys striata* inoculated in blueberry juice and subjected to heat treatments.", IAFP annual conference, Charlotte, NC, USA, July 28-August 1, 2013. (Poster)

Fan, L., Kalt, W., Doucette, C., Hughes, T., Song, J., Chen, S., Zhang, H., and Fillmore, S.A.E. (2013). "Challenge test on heat resistant fungus, *Byssoschlamys striata* inoculated in blueberry juice and subjected to heat treatments.", IAFP annual conference, Charlotte, NC, USA, July 28-August 1, 2013. (Poster)

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Kalt, W. (2013). "Anthocyanin absorption during long-term blueberry juice ingestion.", Berry Health Benefits Symposium, Charlotte NC, Canada, June, 2013.

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Thandapilly, S.J., Louis, X.L., Yu, L., Vinqvist-Tymchuk, M.R., Kalt, W., and Netticadan, T. (2012). "Blueberry fractions prevent norepinephrine induced cardiomyocyte hypertrophy and cell death.", 10th International Symposium on Vaccinium and Other Superfruits, Maastricht, Limburg, The Netherlands, June 17-22, 2012.

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Forney, C.F. and Kalt, W. (2011). "Blueberries and cranberries.", in Terry, L.A. (ed.) Health-promoting properties of fruits and vegetables, CABI Publishing, Wallingford, UK, Chapter 4, pp. 51-73.

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Kalt, W. (2011). "Blueberries as a Therapeutic Functional Food.", Therapeutic Applications for Functional Foods Conference, St. Boniface Hospital Research Centre, Winnipeg, MB, Canada, May 31-June 1, 2011.

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Forney, C.F., Kalt, W., Jordan, M.A., Vinqvist-Tymchuk, M.R., and Fillmore, S.A.E. (2010). "Compositional changes in blueberry and cranberry fruit during ripening.", 28th International Horticultural Congress (IHC2010): Postharvest technology in global market, Lisboa Congress Centre, Lisbon, Portugal, August 22-27, 2010. (Poster)

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Owen, J., Kalt, W., Shi, J., Fillmore, S.A.E., and Zvalo, V. (2008). "Diversely coloured sweet potatoes (*Ipomoea batatas*) grown under Maritime conditions.", *Plants and Soils: Montreal '08: Joint meeting of the CSHS, CSA and Northeastern Branch ASA-CSSA-SSSA*, McGill University, Montréal, QC, Canada, July 13-16, 2008. (Presentation)

Forney, C.F., Kalt, W., Jordan, M.A., Vinqvist-Tymchuk, M.R., and Fillmore, S.A.E. (2008). "Effects of Controlled Atmosphere Storage on Antioxidant Capacity and Phenolics in Three Highbush Blueberry Cultivars.", *HortScience*, 43(4), pp. 1169. (Abstract)

Forney, C.F., Abrams, S.R., Kalt, W., and Owen, S.J. (2008). "Effects of postharvest light and ABA treatments on the composition of white cranberry fruit.", *International Society for Horticultural Science (ISHS) 9th International Conference on Vaccinium*, Oregon State University, Corvallis, OR, USA, July 13-16, 2008. (Abstract)

Kalt, W., Fillmore, S.A.E., McDonald, J.E., Vinqvist-Tymchuk, M.R., Tremblay, F., and Milbury, P.E. (2008). "Blueberries and Health : What about antioxidants?", 2008 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Delta Prince Edward Hotel, Charlottetown, PEI, Canada, May 25-27, 2008, 04-3. (Presentation)

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Research Publications:

2014

Pageni, B.B., Lupwayi, N.Z., Akter, Z., Larney, F.J., Kawchuk, L.M., and Gan, Y.T. (2014). "Plant growth-promoting and phytopathogen-antagonistic properties of bacterial endophytes from potato (*Solanum tuberosum* L.) cropping systems.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/CJPS2013-356

Peters, R.D., Al-Mughrabi, K.I., Kalischuk, M.L., Dobinson, K.F., Conn, K.L., Alkher, H.A., Islam, M.R., Daayf, F., Lynn, J., Bizimungu, B., De Koeber, D.L., Lévesque, A., and Kawchuk, L.M. (2014). "Characterization of *Phytophthora infestans* population diversity in Canada reveals increased migration and genotype recombination.", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2014.892900

Lange, F. and Kawchuk, L.M. (2014). "Growth strategies for a declining marketthe German fresh potato market.", *American Journal of Potato Research*, 91. doi : 10.1007/s12230-014-9367-y

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Groscurth, S., Müller, B., Schwan, S., Menzel, M., Diekstatt, F., Senft, M., Kendall, A., Kommer, B. A., Neumann, U., Kalischuk, M.L., Kawchuk, L.M., Krzyzaneck, V., Heilmann, A., Stubbs, G., Twyman, R.M., Prüfer, D., and Noll, G.A. (2012). "Artificial forisomes are ideal models of forisome assembly and activity that allow the development of technical devices.", *Biomacromolecules*, 13(10), pp. 3076-3086. doi : 10.1021/bm3008499

Fusaro, A.F., Correa, R.L., Nakasugi, K., Jackson, C., Kawchuk, L.M., Vaslin, M.F.S., and Waterhouse, P.M. (2012). "The *Enamovirus* P0 protein is a silencing suppressor which inhibits local and systemic RNA silencing through AGO1 degradation.", *Virology*, 426(2), pp. 178-187. doi : 10.1016/j.virol.2012.01.026

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Other Science Related Publications:

2014

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2013

Johnson, D.L., Meers, S., and Kawchuk, L.M. (2013). "New network to monitor potato psyllid and zebra chip disease in Canada.", Potato Growers of Alberta (PGA) Annual Meeting, Calgary, AB, Canada, November 19-21, 2013.

Kalischuk, M.L., Fusaro, A.F., Waterhouse, P.M., Pappu, H., and Kawchuk, L.M. (2013). "Genomic sequence and small RNA analysis of pararetrovirus infecting raspberry.", Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013.

Kawchuk, L.M., Kalischuk, M.L., Harding, M.W., Spencer, R.C.J., and Howard, R.J. (2013). "Population dynamics of the Irish potato famine pathogen in Alberta.", Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013.

Wijekoon, C.P., Kalischuk, M.L., Spencer, R.C.J., Howard, R.J., and Kawchuk, L.M. (2013). "Characterization of *Apioplagiostoma populi* causing bronze leaf disease in poplar.", Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013.

Islam, M.R., Alkher, H.A., Bezzahou, M., Godee, C., Adam, L.R., Kawchuk, L.M., Dobinson, K.F., Conn, K.L., Peters, R.D., Al-Mughrabi, K.I., Shinnars-Carmelley, T., and Daayf, F. (2013). "Diversity in population structure of late blight pathogen, *P. infestans* in Manitoba.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

Gagnon, M., Kawchuk, L.M., Li, S., Lévesque, C.A., and Bilodeau, G.J. (2013). "Identification and molecular characterization of Canadian strains of potato late blight and potato wart.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

Harding, M.W., Daniels, G.D., Unruh, M.J., Lisowski, S.L.I., Pugh, C., Korschuh, M.N., Kawchuk, L.M., and Howard, R.J. (2013). "Fusarium disease surveillance and management in potato.", Potato Growers of Alberta (PGA) Annual Meeting, Calgary, AB, Canada, November 19-21, 2013.

Pageni, B.B., Lupwayi, N.Z., Akter, Z., Larney, F.J., and Kawchuk, L.M. (2013). "Characterization of bacterial endophytes from potato (*Solanum tuberosum* L.) reveals growth-promoting and antagonistic properties in vitro.", 50th Annual Alberta Soil Science Workshop, Lethbridge, AB, Canada, February 19-21, 2013.

Peters, R.D., MacPhail, A., Clark, M.M., Drake, K.A., Gregory, D., Macdonald, M.M., Beaton, B.W., Al-Mughrabi, K.I., and Kawchuk, L.M. (2013). "Variation in aggressiveness of genotypes of *Phytophthora infestans* found in eastern Canada.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., Dobinson, K.F., Conn, K.L., and Daayf, F. (2013). "Population diversity and segregation analysis of genotype specific loci of the Irish Potato Famine pathogen.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

Bizimungu, B., Kawchuk, L.M., Wahab, J., Waterer, D.R., Korschuh, M.N., and Lynch, D.R. (2013). "AAC Alta Strong potato variety A new option for French fry processing and fresh market uses.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

Howard, R.J., Harding, M.W., Rasmussen, N.M., Lisowski, S.L.I., Pugh, C., and Kawchuk, L.M. (2013). "Goss's Wilt of Field Corn: A New Disease for Alberta.", Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013.

Hachey, J.E., Fletcher, L., Mitchell, S., Mitchell, P., Hochstein, T., and Kawchuk, L.M. (2013). "Fungicide efficiency for preventing early and late blight.", Potato Growers of Alberta (PGA) Annual Meeting, Calgary, AB, Canada, November 19-21, 2013.

Lynn, J., Kalischuk, M.L., Howard, R.J., Harding, M.W., Korschuh, M.N., Spencer, R.C.J., Carter, J., Johnson, D.H., and Kawchuk, L.M. (2013). "An action plan for the prevention of late blight.", Potato Growers of Alberta (PGA) Annual Meeting, Calgary, AB, Canada, November 19-21, 2013.

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Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., Conn, G., Dobinson, K.F., and Daayf, F. (2012). "Distribution of genotypes of *Phytophthora infestans* isolated from potato and tomato in Canada in 2011.", American Phytopathological Society (APS) 2012 Annual Meeting, Westin Providence, Providence, RI, USA, August 4-8, 2012.

Kawchuk, L.M. (2012). "Advances in potato pest management.", 54th Annual Horticulture Growers' Short Course, Abbotsford, BC, Canada, January 26-28, 2012, pp. 2.

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Alkher, H.A., Kawchuk, L.M., Adam, L.R., Islam, M.R., Dobinson, K.F., Conn, K.L., Peters, R.D., Al-Mughrabi, K.I., and Daayf, F. (2012). "Pathogenic diversity of Manitoba isolates of *Phytophthora infestans* on potato and tomato.", Canadian Phytopathological Society (CPS) 83rd Annual Meeting and International PPV Meeting, Marriott Gateway On The Falls, Niagara Falls, ON, Canada, June 24-27, 2012.

Pageni, B.B., Lupwayi, N.Z., Larney, F.J., Kawchuk, L.M., Pearson, D.C., Blackshaw, R.E., and Gan, Y.T. (2012). "Preceding crop, rotation length and soil management effects on bacterial endophytes.", 49th Annual Alberta Soil Science Workshop, Ramada Inn, Edmonton, AB, Canada, February 14-16, 2012. (Abstract)

Peters, R.D., Drake, K.A., MacPhail, A., Howard, R.J., Harding, M.W., Korschuh, M.N., and Kawchuk, L.M. (2012). "Post-harvest management of *Fusarium sambucinum* causing dry rot of potatoes in storage.", 96th Annual Meeting of the Potato Association of America (PAA), Crowne Plaza Denver International Airport, Denver, CO, USA, August 12-16, 2012.

Peters, R.D., Barasubiye, T., Howard, R.J., Harding, M.W., Korschuh, M.N., Kawchuk, L.M., Beaton, B.W., Drake, K.A., MacPhail, A., Banks, C., Clark, M.M., and MacDonald, M.A. (2012). "Prevalence and management of fungicide resistance in *Fusarium* spp. infecting potatoes in Canada.", International Conference on Antimicrobial Research (ICAR 2012), University of Lisbon, Lisbon, Portugal, November 21-23, 2012.

Lynn, J., Kalischuk, M.L., Howard, R.J., Korschuh, M.N., Harding, M.W., Spencer, R.C.J., and Kawchuk, L.M. (2012). "Genetic composition of *Phytophthora infestans* in Alberta and Canada.", 2012 Annual Meeting of Potato Growers of Alberta, Red Deer, AB, Canada, November 13-15, 2012 (Poster).

Hachey, J.E., Fletcher, L., Mitchell, P., and Kawchuk, L.M. (2012). "Chemical effectiveness associated with early blight and late blight.", 2012 Annual Meeting of Potato Growers of Alberta, Red Deer, AB, Canada, November 13-15, 2012 (Poster).

Daniels, G.D., Kawchuk, L.M., Unruh, M.J., Harding, M.W., and Howard, R.J. (2012). "Characterization and management of *Fusarium* species from Alberta potato storages.", 2012 Annual Meeting of Potato Growers of Alberta, Red Deer, AB, Canada, November 13-15, 2012 (Poster).

Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., Conn, K.L., Dobinson, K.F., and Daayf, F. (2012). "Migration and recombination increase the genetic diversity of *Phytophthora infestans* in Canada.", 96th Annual Meeting of the Potato Association of America (PAA), Crowne Plaza Denver International Airport, Denver, CO, USA, August 12-16, 2012.

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Korschuh, M.N., Howard, R.J., McKenzie, R.H., Thompson, J., Kawchuk, L.M., Woods, S., and Waterer, D.R. (2011). "Use of Green Manure Crops to Reduce Soil-borne Pests and Diseases of Potato Crops in Alberta.", *American Journal of Potato Research*, 88, pp. 49. (Abstract)

Kalischuk, M.L., Kawchuk, L.M., and Kovalchuk, I.E. (2011). "Transgenerational pathogen resistance following biotic stress.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 29.

Kawchuk, L.M., Kalischuk, L.D., Al-Mughrabi, K.I., Peters, R.D., Howard, H., and Platt, H.W. (2011). "Genetic Composition of *Phytophthora infestans* in Canada Reveals Increased Diversity.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011.

Kawchuk, L.M. and Kovalchuk, I.E. (2011). "Transgenerational pathogen resistance in canola following biotic stress.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 29.

Peters, R.D., Kawchuk, L.M., Al-Mughrabi, K.I., Platt, H.W., Beaton, B.W., Banks, C., MacDonald, I.K., and Gregory, D. (2011). "Genotypes of *Phytophthora infestans* causing late blight in Canada in 2010.", 19th Annual Northeast Potato Technology Forum, Crowne Plaza Fredericton Lord Beaverbrook Hotel, Fredericton, NB, Canada, March 16-17, 2011.

Howard, R.J., Burke, D.A., Lisowski, S.L.I., Strelkov, S.E., Rennie, D.C., Hwang, S.F., Turnbull, G.D., Kawchuk, L.M., and Harding, M.W. (2011). "Assessing the potential for clubroot spore contamination of field pea seed.", *Canadian Journal of Plant Science*, 91(2), pp. 389, Poster 21.

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Kawchuk, L.M. (2010). "Potato Pest Management.", 52nd Annual Horticulture Growers' Short Course, Abbotsford, BC, Canada, January 28-30, 2010, pp. 44.

Konschuh, M.N., Howard, R.J., McKenzie, R.H., Thompson, J., Kawchuk, L.M., Woods, S., and Waterer, D.R. (2010). "Use of Green Manure Crops to Reduce Soil-borne Pests and Diseases of Potato Crops in Alberta.", 94th Annual Meeting of the Potato Association of America (PAA), Oregon State University, Corvallis, OR, USA, August 15-19, 2010, # 016, pp. 48.

Kalischuk, M.L., Kathiria, P., Kawchuk, L.M., and Kovalchuk, I.E. (2010). "Virus induced *Phytophthora nicotianae* resistance in tobacco.", Symposium of the Alberta Epigenetics Network: Epigenetics of Health and Disease, Lethbridge Public Library, Lethbridge, AB, Canada, June 9-10, 2010. (Poster)

Kawchuk, L.M., Hill, B.D., Kalischuk, L.D., Waterer, D.R., Howard, R.J., and Bizimungu, B. (2010). "An environmental model predicting bacterial ring rot symptom expression.", 94th Annual Meeting of the Potato Association of America (PAA), Oregon State University, Corvallis, OR, USA, August 15-19, 2010, 085, pp. 98.

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Kalischuk-Tymensen, L.D., Kawchuk, L.M., Leggett, F.L., and Pappu, H. (2009). "Genomic structure and organization of a plant pararetrovirus infecting *Rubus* species.", *Phytopathology*, 99(June, Suppl.), pp. S60-S61. (Abstract)

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Bizimungu, B., Kawchuk, L.M., Platt, H.W., Chen, Q., and Howard, R.J. (2008). "Disease Resistance in Advanced Potato Breeding Clones.", *American Journal of Potato Research*, 85(1), pp. 3. (Abstract)

Kawchuk, L.M. (2008). "Advances in pathogen and pest resistance.", International Society for Horticultural Science (ISHS) 9th International Conference on Vaccinium, Oregon State University, Corvallis, OR, USA, July 13-16, 2008.

Kawchuk, L.M. (2008). "Advances in virus disease prevention and silencing.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008.

Kawchuk, L.M., Howard, R.J., Bizimungu, B., and De Boer, S.H. (2008). "Characterization of the blackleg pathogen in potato.", *Canadian Journal of Plant Pathology*, 30(2), pp. 369. (Abstract)

2007

Kawchuk, L.M., Ruthardt, N., Fischer, R., and Emans, N. (2007). "Subcellular localization of the tomato verticillium wilt resistance gene *Ve2* protein.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 138, P1-37. (Poster)

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Research Publications:

2013

Dossett, M.P., Kempler, C., and Daubeny, H.A. (2013). "BC 90-19-34 and BC 93-16-43 Red Raspberries.", *HortScience*, 48(5), pp. 664-667.

2012

Dossett, M.P. and Kempler, C. (2012). "Biotypic Diversity and Resistance to the Raspberry Aphid *Amphorophora agathonica* in Pacific Northwestern North America.", *Journal of the American Society for Horticultural Science*, 137(6), pp. 445-451.

Kempler, C., Muehlchen, A.M., and Forge, T.A. (2012). "Screening for Resistance to *Phytophthora* Root Rot in Raspberries: Identifying New Sources of Resistance.", *Acta Horticulturae (ISHS)*, 926, pp. 59-64.

Zhang, Z.-M., Zhao, Z.-Y., Liu, H., Dubé, C., Charles, M.T., Kempler, C., and Khanizadeh, S. (2012). "Horticultural characteristics and chemical composition of advanced raspberry lines from British Columbia.", *Journal of Food, Agriculture & Environment (JFAE)*, 10(3-4), pp. 883-887.

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Moore, P.P., Hoashi-Erhardt, W.K., Finn, C.E., and Kempler, C. (2011). "'Puget Crimson' Strawberry.", *HortScience*, 46(12), pp. 1698-1700.

Finn, C.E., Kempler, C., Moore, P.P., Strik, B.C., Yorgey, B.M., Martin, R.R., and Galletta, G.J. (2011). "'Sweet Bliss' Strawberry.", *HortScience*, 46(12), pp. 1701-1705.

Kempler, C., Daubeny, H.A., Harding, B., Frey, L., Baumann, T., Finn, C.E., Khanizadeh, S., Jamieson, A.R., MacKenzie, K.C., Moore, P.P., and Sweeney, M.E. (2011). "'Stolo' Strawberry.", *HortScience*, 46(7), pp. 1046-1048.

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Jamieson, A.R. and Kempler, C. (2009). "Strawberry Genotypes Differ in Their Ratio of Shoots to Roots, Based on Dry Weight.", *Acta Horticulturae (ISHS)*, 842, pp. 589-592.

Forge, T.A. and Kempler, C. (2009). "Organic mulches influence population densities of root-lesion nematodes, soil health indicators and root growth of red raspberry.", *Canadian Journal of Plant Pathology*, 31(2), pp. 241-249. doi : 10.1080/07060660909507597

Carew, R., Kempler, C., Moore, P.P., and Walters, T.W. (2009). "Developments in Raspberry Production, Cultivar Releases, and Intellectual Property Rights: A Comparative Study of British Columbia and Washington State.", *International Journal of Fruit Science*, 9(1), pp. 54-77. doi : 10.1080/15538360902801338

Finn, C.E., Moore, P.P., Kempler, C., Yorgey, B.M., Strik, B.C., and Martin, R.R. (2009). "'Valley Red' Strawberry.", *HortScience*, 44(5), pp. 1468-1471.

2008

Debnath, S.C., Khanizadeh, S., Jamieson, A.R., and Kempler, C. (2008). "Inter Simple Sequence Repeat (ISSR) markers to assess genetic diversity and relatedness within strawberry genotypes.", *Canadian Journal of Plant Science*, 88(2), pp. 313-322. doi : 10.4141/CJPS07088

Stephens, M.J., Kempler, C., and Hall, H.K. (2008). "'Moutere' Red Raspberry.", *HortScience*, 43(6), pp. 1915-1917.

Marinkovic, D., Djurovic, S., Markovic, S., and Kempler, C. (2008). "Response of Seven Red Raspberry Cultivars to the Environmental Conditions of Northern Serbia.", *Journal of the American Pomological Society*, 62(4), pp. 178-184.

Kempler, C. and Daubeny, H.A. (2008). "Red Raspberry Cultivars and Selections from the Pacific Agri-Food Research Centre.", *Acta Horticulturae (ISHS)*, 777, pp. 71-75.

Kowalenko, C.G., Kempler, C., and Bittman, S. (2008). "Do Differences in Floricane and Primocane Growth Characteristics of Raspberry Cultivars Influence the Recycling of Nitrogen in the Soil-Plant System?.", *Acta Horticulturae (ISHS)*, 777, pp. 453-458.

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Finn, C.E., Kempler, C., and Moore, P.P. (2008). "Raspberry cultivars: What's new? What's succeeding? Where are breeding programs headed?", *Acta Horticulturae (ISHS)*, 777, pp. 33-40.

2007

Kempler, C., Daubeny, H.A., Harding, B., Baumann, T., Finn, C.E., Moore, P.P., Sweeney, M.E., and Walters, T.W. (2007). "'Saanich' red raspberry.", *HortScience*, 42(1), pp. 176-178.

Frey, B., Kempler, C., and Ehret, D.L. (2007). "Micro-propagation of White-top Aster, *Sericocarpus rigidus*, a threatened species from the Garry Oak Ecosystem in British Columbia.", *Canadian Field Naturalist*, 121(1), pp. 40-45.

Other Science Related Publications:

2012

Debnath, S.C., Kempler, C., Jamieson, A.R., and Khanizadeh, S. (2012). "Growth and development of raspberry as affected by in vitro and ex vitro propagation methods.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, E2.4 Abstract Id 3832, pp. 43. (Abstract)

2011

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2008

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Research Publications:

2013

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2012

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2011

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Khakbazan, M. and Hamilton, C. (2011). "Watershed Evaluation of Beneficial Management Practices – South Tobacco Creek Project.", 125th Anniversary of the Brandon Research Centre, Brandon, MB, Canada, August 11, 2011. (Poster)

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Ross, C.B., Khakbazan, M., Boyle, M., and Hamilton, C. (2007). "Watershed Evaluation of Beneficial Management Practices (WEBs): On-farm Economic Assessments.", PFRA Symposium, Regina, SK, Canada, February 21-22, 2007. (Poster)

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Research Publications:

2014

Wilkes, G.A., Brassard, J., Edge, T.A., Gannon, V.P.J., Gottschall, N., Jokinen, C.C., Jones, T.H., Khan, I.U.H., Marti, R., Sunohara, M., Topp, E., and Lapen, D.R. (2014). "Long-term monitoring of waterborne pathogens and microbial source tracking markers in paired-agricultural watersheds under controlled and conventional tile drainage management.", *Applied and Environmental Microbiology*. doi : 10.1128/AEM.00254-14

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Other Science Related Publications:

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Léveillé, W.J., Kaneza, C.A., Léveillé, K., Talbot, G., Topp, E., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Optimization of a genus-specific PCR assay and restriction fragment length polymorphism (RFLP) analysis for rapid detection.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013, Abstract AE88.

Kaneza, C.A., Whiteduck-Leveillee, K., Whiteduck-Leveillee, J., Laprade, N., Topp, E., Guylaine, T., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Identification and detection of *Arcobacter* spp. from water and fecal matter using genus and species-specific PCR assays.", La Cité Collégiale, Ottawa, ON, Canada, April 26, 2013. (Poster)

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Research Publications:

2014

Ghose, K., Selvaraj, K., McCallum, J.L., Kirby, C.W., Sweeney-Nixon, M., Cloutier, S., Deyholos, M.K., Datla, R.S.S., and Fofana, B. (2014). "Identification and functional characterization of a flax UDP-glycosyltransferase glucosylating secoisolariciresinol (SECO) into secoisolariciresinol monoglucoside (SMG) and diglucoside (SDG).", *BMC Plant Biology*, 14(82). doi : 10.1186/1471-2229-14-82

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Rigby-Duncan, K.E., Kirby, C.W., and Stillman, M.J. (2008). "Metal exchange in metallothioneins a novel structurally significant Cd⁵ species in the alpha domain of human metallothionein 1a.", *FEBS Journal*, 275(9), pp. 2227-2239. doi : 10.1111/j.1742-4658.2008.06375.x

Other Science Related Publications:

2013

Kirby, C.W., Wu, T., Tsao, R., and McCallum, J.L. (2013). "Isolation and structural characterization of unusual pyranoanthocyanins and related anthocyanins from Staghorn Sumac (*Rhus typhina* L.) via UPLC-ESI-MS, 1H, 13C, and 2D NMR spectroscopy.", 52nd Annual meeting of Phytochemical Society of North America (PSNA), Corvallis, Oregon, USA, August 2-7, 2013.

2012

Kirby, C.W., Wu, T., Tsao, R., and McCallum, J.L. (2012). "NMR structure elucidation of novel anthocyanins from Staghorn Sumac (*Rhus typhina* L.)", MOOT XXV Mini NMR Symposium, Université Laval, Québec City, QC, Canada, October 20-21, 2012.

2011

Ghose, K., Sanderson, K.R., Kirby, C.W., McCallum, J.L., and Fofana, B. (2011). "Genetic structure of Prince Edwards island wild rosehip ecotypes as revealed by single nucleotide polymorphism.", Canadian Phytopathological Society (CPS) 82nd Annual Meeting (with Plant Canada 2011), Halifax, NS, Canada, July 17-21, 2011, CSHS-9, pp. 283. (Poster)

Fofana, B., Main, D., Ghose, K., Grimmett, M.G., Kirby, C.W., McCallum, J.L., Peters, R.D., Drake, K.A., Locke, S.J., and Sweeney, M.E. (2011). "Improving the antioxidant capacity of field crops by increasing selenoprotein content.", 2011 Annual Meeting of the Canadian Phytopathological Society (with Plant Canada 2011), Halifax, NS, Canada, July 17-21, 2011, pp. 61, #1145. (Presentation)

Kirby, C.W., McCallum, J.L., Bernard, K., and Fofana, B. (2011). "Cooked Flax Bolls: An Alternative Omega-3 Fatty Acid Source.", MOOT XXIV NMR Minisymposium, Toronto, ON, Canada, October 21-22, 2011. (Poster)

2010

Kirby, C.W. (2010). "Agri-NMR A New Field in Agriculture.", Department of Chemistry Seminar series, University of Prince Edward Island, Charlottetown, PE, Canada, October 6, 2010, Invited talk.

Zhang, J-Z., Ji, X-H., Kirby, C.W., Chapman, B. P., Murphy, A.M., and Tai, H.H. (2010). "NMR-based metabolomic profiling of coloured potato varieties.", 7th Annual Natural Health Products Research Conference: The Next Wave, Halifax, NS, Canada, May 23-26, 2010.

Johnson, J.B., Kulka, M., Wang, Y., Zidichouski, J., Saleh, T., Fofana, B., Kirby, C.W., McCallum, J.L., Sanderson, K.R., Berrue, F., Kerr, R., Mackinnon, S., Zhang, J., and Chapman, R.A. (2010). "Comparative evaluation of the immunomodulatory activities of selected Prince Edward Island rose hip varieties.", 10th Agricultural Biotechnology International Conference (ABIC), Saskatoon, SK, Canada, September 12-15, 2010. (Poster)

Ghose, K., McCallum, J.L., Kirby, C.W., Sanderson, K.R., and Fofana, B. (2010). "Genetic and metabolite diversity in Atlantic Canada wild roses and its implication in drug and cultivar development.", 2nd Maritime Natural Products Conference, Charlottetown, PEI, Canada, August 31-September 2, 2010.

Ji, X-H., Kirby, C.W., Burton, I., Melanson, J., Walter, J., and Zhang, J-Z. (2010). "Novel acetylcholinesterase (AChE) inhibitors from *Senecio jacobaea*.", 7th Annual Natural Health Products Research Conference: The Next Wave, Halifax, NS, Canada, May 23-26, 2010, Poster.

Ghose, K., McCallum, J.L., Kirby, C.W., Sanderson, K.R., and Fofana, B. (2010). "Genetic and metabolite diversity in Atlantic Canada wild roses and its implications in drug and cultivar development.", Plant Biology 2010: Joint meeting of the Canadian Society of Plant Physiologists (CSPP) and American Society of Plant Biologists (ASPB), Montréal Convention Centre, Montréal, QC, Canada, July 31-August 4, 2010, P09073. (Poster)

2009

Kirby, C.W., McCallum, J.L., and Fofana, B. (2009). "NMR Studies of the Fatty Acids Present in Flax Seed Development.", MOOT XXII NMR Minisymposium, Carleton University, Ottawa, ON, Canada, October 17-18, 2009, 16. (Poster)

Kirby, C.W., Bain, A., Hartman, J.S., Berno, B., Hazendonk, P., Ye, E., Zwanzinger, J., McCallum, J.L., and Fofana, B. (2009). "From Semi-Conductors to Fatty Acids – the Versatility of NMR.", 4th Annual Nuclear Magnetic Resonance Research Resource Workshop, Halifax, NS, Canada, November 14, 2009, Invited talk.

Zhang, J-Z., Ji, X-H., Kirby, C.W., Rayorath, P., Critchley, A.T., and Prithiviraj, B. (2009). "1H NMR-based Metabolomic Profiling of Key Water Soluble Metabolites in *Arabidopsis thaliana* during Freezing and Thawing Affected by the Lipophilic Components of Brown Seaweed *Ascophyllum nodosum*.", 5th International Conference of the Metabolomics Society, Crowne Plaza Chateau Lacombe, Edmonton, AB, Canada, August 30-September 2, 2009, Poster.

Kirby, C.W., Zhang, J-Z., Rayirath, U.P., and Prithiviraj, B. (2009). "Terrestrial Plant Anti-Freeze from Seaweed: An NMR Metabolomic Adventure.", 55th International Conference on Analytical Sciences and Spectroscopy, Kingston, ON, Canada, August 9-12, 2009, Invited talk.

2008

Kirby, C.W., Zhu, J., Huang, Y., Zhou, H., and Frost, R.L. (2008). National Ultrahigh-Field NMR Facility for Solids 2007-2008 annual report., NRC Steacie Institute for Molecular Sciences, Ottawa, ON, Canada. (Report)

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Research Publications:

2014

DePauw, R.M., Knox, R.E., Cuthbert, R.D., Singh, A.K., and McCaig, T.N. (2014). "AAC Bailey hard red spring wheat.", *Canadian Journal of Plant Science*, 94(1), pp. 175-181. doi : 10.4141/cjps2013-252

2013

Singh, A., Pandey, M.P., Singh, A.K., Knox, R.E., Ammar, K., Clarke, J.M., Clarke, F.R., Singh, R.P., Pozniak, C.J., DePauw, R.M., McCallum, B.D., Cuthbert, R.D., Randhawa, H.S., and Fetch Jr., T.G. (2013). "Identification and mapping of leaf, stem and stripe rust resistance quantitative trait loci and their interactions in durum wheat.", *Molecular Breeding*, 31(2), pp. 405-418. doi : 10.1007/s11032-012-9798-4

Singh, A., Knox, R.E., DePauw, R.M., Singh, A.K., Cuthbert, R.D., Campbell, H.L., Singh, D., Bhavani, S., Fetch Jr., T.G., and Clarke, F.R. (2013). "Identification and mapping in spring wheat of genetic factors controlling stem rust resistance and the study of their epistatic interactions across multiple environments.", *Theoretical and Applied Genetics (TAG)*, 126(8), pp. 1951-1964. doi : 10.1007/s00122-013-2109-6

Randhawa, H.S., Asif, M., Pozniak, C.J., Clarke, J.M., Graf, R.J., Fox, S.L., Humphreys, D.G., Knox, R.E., DePauw, R.M., Singh, A.K., Cuthbert, R.D., Hucl, P.J., and Spaner, D.M. (2013). "Application of Molecular Markers for Wheat Breeding in Canada.", *Plant Breeding*, 132(5), pp. 458-471. doi : 10.1111/pbr.12057

Knox, R.E., Campbell, H., DePauw, R.M., Gaudet, D.A., and Puchalski, B. (2013). "DNA markers for resistance to common bunt in 'McKenzie' wheat.", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2013.763292

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Singh, A.K., Clarke, J.M., Knox, R.E., DePauw, R.M., McCaig, T.N., Fernandez, M.R., and Clarke, F.R. (2012). "Transcend Durum wheat.", *Canadian Journal of Plant Science*, 92(4), pp. 809-813. doi : 10.4141/cjps2011-255

Singh, A.K., Hamel, C., DePauw, R.M., and Knox, R.E. (2012). "Genetic variability in arbuscular mycorrhizal fungi compatibility supports the selection of durum wheat genotypes for enhancing soil ecological services and cropping systems in Canada.", *Canadian Journal of Microbiology*, 58(3), pp. 293-302. doi : 10.1139/W11-140

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DePauw, R.M., Knox, R.E., Singh, A.K., Fox, S.L., Humphreys, D.G., and Hucl, P.J. (2012). "Developing standardized methods for breeding preharvest sprouting resistant wheat, challenges and successes in Canadian wheat.", *Euphytica*, 188(1), pp. 7-14. doi : 10.1007/s10681-011-0611-y

Isidro, J., Knox, R.E., Clarke, F.R., Singh, A.K., DePauw, R.M., Clarke, J.M., and Somers, D.J. (2012). "Quantitative genetic analysis and mapping of leaf angle in durum wheat.", *Planta*, 236(6), pp. 1713-1723. doi : 10.1007/s00425-012-1728-5

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DePauw, R.M., Knox, R.E., McCaig, T.N., Clarke, F.R., and Clarke, J.M. (2011). "Carberry hard red spring wheat.", *Canadian Journal of Plant Science*, 91(3), pp. 529-534. doi : 10.4141/cjps10187

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Singh, A.K., Clarke, J.M., DePauw, R.M., Knox, R.E., Clarke, F.R., Fernandez, M.R., and McCaig, T.N. (2010). "Enterprise durum wheat.", *Canadian Journal of Plant Science*, 90(3), pp. 353-357. doi : 10.4141/CJPS09147

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Wang, S., Knox, R.E., DePauw, R.M., Clarke, F.R., Clarke, J.M., and Thomas, J.B. (2009). "Markers to a common bunt resistance gene derived from 'Blizzard' wheat (*Triticum aestivum* L.) and mapped to chromosome arm 1BS.", *Theoretical and Applied Genetics (TAG)*, 119(3), pp. 541-553. doi : 10.1007/s00122-009-1063-9

Menzies, J.G., Turkington, T.K., and Knox, R.E. (2009). "Testing for resistance to smut diseases of barley, oats and wheat in western Canada.", *Canadian Journal of Plant Pathology*, 31(3), pp. 265-279. doi : 10.1080/07060660909507601

Clarke, J.M., Knox, R.E., DePauw, R.M., Clarke, F.R., McCaig, T.N., Fernandez, M.R., and Singh, A.K. (2009). "Eurostar durum wheat.", *Canadian Journal of Plant Science*, 89(2), pp. 317-320. doi : 10.4141/CJPS08129

Randhawa, H.S., Popovic, Z., Menzies, J.G., Knox, R.E., and Fox, S.L. (2009). "Genetics and identification of molecular markers linked to resistance to loose smut (*Ustilago tritici*) race T33 in durum wheat.", *Euphytica*, 169(2), pp. 151-157. doi : 10.1007/s10681-009-9903-x

Rasul, G., Humphreys, D.G., Brülé-Babel, A.L., McCartney, C.A., Knox, R.E., DePauw, R.M., and Somers, D.J. (2009). "Mapping QTLs for pre-harvest sprouting traits in the spring wheat cross 'RL4452/AC Domain'."., *Euphytica*, 168(3), pp. 363-378. doi : 10.1007/s10681-009-9934-3

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DePauw, R.M., Knox, R.E., Clarke, F.R., Clarke, J.M., and McCaig, T.N. (2009). "Stettler hard red spring wheat.", *Canadian Journal of Plant Science*, 89(5), pp. 945-951. doi : 10.4141/CJPS08227

Clarke, J.M., Knox, R.E., DePauw, R.M., Clarke, F.R., Fernandez, M.R., McCaig, T.N., and Singh, A.K. (2009). "Brigade durum wheat.", *Canadian Journal of Plant Science*, 89(3), pp. 505-509. doi : 10.4141/CJPS08168

DePauw, R.M., Knox, R.E., Thomas, J.B., Smith, M.A.H., Clarke, J.M., Clarke, F.R., and McCaig, T.N. (2009). "Goodeve Hard Red Spring Wheat.", *Canadian Journal of Plant Science*, 89(5), pp. 937-944.

DePauw, R.M., Clarke, F.R., Fofana, B., Knox, R.E., Humphreys, D.G., and Cloutier, S. (2009). "RL4137 contributes preharvest sprouting resistance to Canadian wheats.", *Euphytica*, 168(3), pp. 347-361. doi : 10.1007/s10681-009-9933-4

Clarke, F.R., Clarke, J.M., Pozniak, C.J., Knox, R.E., and McCaig, T.N. (2009). "Protein concentration inheritance and selection in durum wheat.", *Canadian Journal of Plant Science*, 89(4), pp. 601-612. doi : 10.4141/CJPS08191

Knox, R.E., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Houshmand, S., and Singh, A.K. (2009). "Chromosomal location of the cadmium uptake gene (Cdu1) in durum wheat.", *Genome*, 52(9), pp. 741-747. doi : 10.1139/G09-042

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Knox, R.E., Campbell, H.L., Clarke, J.M., Fernandez, M.R., McLeod, G.J., and DePauw, R.M. (2008). "Registration of DT676 Loose Smut Resistant Durum Wheat Germplasm.", *Journal of Plant Registrations*, 2(2), pp. 156-161. doi : 10.3198/jpr2007.06.0342crg (Variety registration)

Knox, R.E., Campbell, H., Clarke, J.M., DePauw, R.M., Procinier, J.D., and Howes, N.K. (2008). "Genetics of resistance to *Ustilago tritici* in 'Glenlea' wheat (*Triticum aestivum*).", *Canadian Journal of Plant Pathology*, 30(2), pp. 267-276.

Reimer, S., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Somers, D.J., Knox, R.E., and Singh, A.K. (2008). "Association mapping of yellow pigment in an elite collection of durum wheat cultivars and breeding lines.", *Genome*, 51(12), pp. 1016-1025. doi : 10.1139/G08-083

Knox, R.E., DePauw, R.M., Clarke, F.R., Clarke, J.M., McCaig, T.N., and Fernandez, M.R. (2008). "Alvena hard red spring wheat.", *Canadian Journal of Plant Science*, 88(3), pp. 513-518. doi : 10.4141/CJPS07177

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DePauw, R.M., Knox, R.E., Clarke, F.R., Wang, H., Fernandez, M.R., Clarke, J.M., and McCaig, T.N. (2007). "Shifting undesirable correlations.", *Euphytica*, 157(3), pp. 409-415. doi : 10.1007/s10681-007-9379-5

DePauw, R.M., Knox, R.E., Clarke, F.R., Clarke, J.M., McCaig, T.N., and Fernandez, M.R. (2007). "Helios hard red spring wheat.", *Canadian Journal of Plant Science*, 87(3), pp. 515-520. doi : 10.4141/CJPS06002

DePauw, R.M., Knox, R.E., Clarke, J.M., Clarke, F.R., Salmon, D.F., Fernandez, M.R., and McCaig, T.N. (2007). "Snowwhite 476 hard white spring wheat.", *Canadian Journal of Plant Science*, 87(3), pp. 521-526. doi : 10.4141/CJPS06070

Pozniak, C.J., Knox, R.E., Clarke, F.R., and Clarke, J.M. (2007). "Identification of QTL and association of a phytoene synthase gene with endosperm colour in durum wheat.", *Theoretical and Applied Genetics (TAG)*, 114(3), pp. 525-537. doi : 10.1007/s00122-006-0453-5

Houshmand, S., Knox, R.E., Clarke, F.R., and Clarke, J.M. (2007). "Microsatellite markers flanking a stem solidness gene on chromosome 3BL in durum wheat.", *Molecular Breeding*, 20(3), pp. 261-270. doi : 10.1007/s11032-007-9088-8

Other Science Related Publications:

2013

Singh, A., DePauw, R.M., Knox, R.E., Cuthbert, R.D., Singh, A.K., Singh, D., Bhavani, S., Fetch Jr., T.G., and Campbell, H.L. (2013). "Identification and mapping of genetic factors controlling stem rust resistance in spring wheat and the study of their epistatic interactions across multiple environments.", 5th BGRI Workshop, New Delhi, India, August 19-22, 2013.

Singh, A., Knox, R.E., DePauw, R.M., Cuthbert, R.D., Singh, A.K., Shorter, S., Campbell, H., and Bhavani, S. (2013). "Identification and mapping of genetic factors controlling stripe and leaf rust resistance in spring wheat.", 5th BGRI Workshop, New Delhi, India, August 19-22, 2013.

2012

Knox, R.E. and Menzies, J.G. (2012). "Resistance in Wheat to Loose Smut.", in Sharma, I. (ed.) *Disease Resistance in Wheat*. CABI Plant Protection Series, CABI Publishing, Wallingford, UK, Chapter 9, pp. 160-189.

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Isidro, J., Singh, A.K., Wang, H., DePauw, R.M., Pozniak, C.J., Knox, R.E., Cuthbert, R.D., Beres, B.L., and Johnson, E.N. (2011). "Effects of plant density on durum crop production.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

Isidro, J., Knox, R.E., Singh, A.K., Clarke, F.R., DePauw, R.M., Clarke, J.M., and Somers, D.J. (2011). "Mapping quantitative trait loci for leaf angle in durum wheat.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

Isidro, J., Knox, R.E., Singh, A.K., Clarke, F.R., Krishna, P., DePauw, R.M., Clarke, J.M., and Somers, D.J. (2011). "Brassinosteroid leaf unrolling QTL mapping in durum wheat.", 1st Congress of Cereal Biotechnology and Breeding, Szeged, Hungary, May 24 -27, 2011. (Abstract)

DePauw, R.M., McCallum, B.D., Voldeng, H.D., Knox, R.E., Edwards, N., Fetch Jr., T.G., Lukow, O.M., Fox, S.L., Pozniak, C.J., Hucl, P.J., Singh, A.K., and Comeau, A. (2011). "Canadian Triticologists: the game changers.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

Knox, R.E., DePauw, R.M., Singh, A., Singh, A.K., Singh, D., Bhavani, S., Fetch Jr., T.G., and Campbell, H. (2011). "Investigating the role of SrCad and Sr2 on stem rust race TTKST in wheat.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, pp. 186.

Fox, S.L., DePauw, R.M., Humphreys, D.G., Hucl, P.J., Singh, A.K., Pozniak, C.J., Brown, P.D., Graf, R.J., Randhawa, H.S., Voldeng, H.D., McCartney, C.A., Hiebert, C.W., Knox, R.E., Thomas, J.B., Townley-Smith, L., and Fetch Jr., T.G. (2011). "Canadian initiatives in breeding for stem rust resistance to race Ug99 and variants.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, pp. 121-126.

DePauw, R.M., Singh, A., Singh, A.K., Knox, R.E., Singh, D., Bhavani, S., and Fetch Jr., T.G. (2011). "The SrCad and Sr2 locus influences reaction to stripe rust and Fusarium head blight.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, Poster #60. (Poster)

Singh, A.K., Knox, R.E., DePauw, R.M., Clarke, F.R., Martin, R.A., Xue, A.G., Gilbert, J., Brûlé-Babel, A.L., Campbell, H., and Cuthbert, R.D. (2011). "Validation of molecular markers linked to Sumai 3 resistance to DON and FDK in Canadian spring wheat populations.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 106.

DePauw, R.M., Somers, D.J., Cuthbert, R.D., McCallum, B.D., Knox, R.E., Voldeng, H.D., Humphreys, D.G., Fox, S.L., Singh, A.K., McCartney, C.A., and Fedak, G. (2011). "Are QTLs for fusarium head blight response additive?", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 70.

Singh, M.P., Singh, A.K., Clarke, J.M., Knox, R.E., Ammar, K., Singh, R.P., Pozniak, C.J., DePauw, R.M., Clarke, F.R., McCallum, B.D., Cuthbert, J.L., and Randhawa, H.S. (2011). "Molecular mapping of leaf rust and stripe rust resistance QTL in durum wheat.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

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Research Publications:

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Bittman, S., Liu, A., Bhandral, R., Hunt, D.E., Kowalenko, C.G., Buckley, K.E., and Chantigny, M.H. (2009). "Sustainable use of dairy slurry on crops: Dual manure stream concept.", Farming Systems Design 2009: Methodologies for Integrated Analysis of Farm Production Systems, Portola Hotel, Monterey, CA, USA, August 23-26, 2009, pp. 37-38.

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Bittman, S., Hunt, D.E., and Kowalenko, C.G. (2008). "Opportunities and challenges for balancing farm nutrients.", 4th Canadian Society of Agronomy (CSA) Atlantic Workshop, Rodd Charlottetown Hotel, Charlottetown, PEI, Canada, January 15-16, 2008. (Workshop)

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Liu, A., Bittman, S., Forge, T.A., Hunt, D.E., Kowalenko, C.G., and Grant, C.A. (2008). "Growth, mycorrhizal colonization and Cd uptake by sunflower (*Helianthus annuus* L.) as influenced by tillage and fallow.", Metals in the Human Environment Strategic Network (MITHE-SN) Annual Symposium 2008, Château Cartier Resort, Aylmer, QC, Canada, January 22-23, 2008. (Poster)

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Liu, A.K., Bittman, S., Forge, T.A., Hunt, D.E., Kowalenko, C.G., and Grant, C.A. (2008). "Effect of manure, fertilizer and AMF on Cd concentration in sunflower: short term and long term effects.", Metals in the Human Environment Strategic Network (MITHE-SN) Annual Symposium 2008, Château Cartier Resort, Aylmer, QC, Canada, January 22-23, 2008.

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Bittman, S., Forge, T.A., Kowalenko, C.G., Hunt, D.E., Bounaix, F., and Zhang, T.Q. (2007). "Long term effects of dairy manure on grass: Production and soil nutrient shifts.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 92, SG3-4. (Abstract)

Bittman, S., Hunt, D.E., Friesen, A.J., Kowalenko, C.G., and Buckley, K.E. (2007). Determination of ammonia emission factors for fertilizer use in Canada. Report to Environment Canada NAESI, 27 April 2007. (Report)

Bittman, S., Hunt, D.E., and Kowalenko, C.G. (2007). "Polymer coating improves performance of surface applied urea fertilizer.", 15th Nitrogen Workshop. Towards a Better Efficiency in Nitrogen Use: Nitrogen Workshop, Lleida, Spain, May 28-30, 2007. (Workshop)

Bhandral, R., Bittman, S., Kowalenko, C.G., Hunt, D.E., Bounaix, F., and Friesen, A.J. (2007). "Effect of solids removal and partial injection on NH_3 and N_2O emission from spring and summer applied dairy slurry.", 15th Nitrogen Workshop. Towards a Better Efficiency in Nitrogen Use: Nitrogen Workshop, Lleida, Spain, May 28-30, 2007. (Workshop)

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Research Publications:

2014

Sansoulet, J.B., Pattey, E., Kröbel, R., Grant, B.B., Smith, W.N., Jégo, G., Desjardins, R.L., Tremblay, N., and Tremblay, G. (2014). "Comparing the performance of STICS, DNDC and DayCent models for predicting N uptake and biomass of spring wheat in Eastern Canada.", *Field Crops Research*, 156, pp. 135-150. doi : 10.1016/j.fcr.2013.11.010

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Kröbel, R., Janzen, H.H., Little, S.M., and Li, S. (2013). "Preliminary Holos model assessment of GHG emissions from crop production in the Black-Brook watershed, NB, during the years 1988-1997.", Canadian Soil Science Society 2013 Annual Meeting, Winnipeg, Manitoba, Canada, July 22-25, 2013.

Little, S.M., Beauchemin, K.A., Janzen, H.H., Kröbel, R., and Maclean, K. (2013). "Holos Methodology & Algorithms for Version 2.0.", AAFC Lethbridge, Lethbridge, AB, March 21, 2013. (Presentation)

Chai, L.L., Kröbel, R., Janzen, H.H., Beauchemin, K.A., McGinn, S.M., Bittman, S., Atia, A., and Edeogu, I. (2013). "A mass balance model based on total ammoniacal nitrogen for estimating ammonia volatilization from beef cattle manure management in Alberta in Canada.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013, paper #:1596572.

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Kwabiah, Allan B., Ph.D., P. Agr.

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Other Science Related Publications:

2011

Kwabiah, A.B. (2011). "Corn Silage Technology, manure management and efficiency of new land clearing.", Bryan Harvey and Michael Gosse and Company visit, AAFC Atlantic Cool Climate Crop Research Centre, St. John's, NL, Canada, September 20, 2011. (Presentation)

Laberge, Serge, Ph.D.

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Research Publications:

2013

Kolotilin, I., Kaldis, A., Pereira, E.O., Laberge, S., and Menassa, R. (2013). "Optimization of transplastomic production of hemicellulases in tobacco: effects of expression cassette configuration and tobacco cultivar used as production platform on recombinant.", *Biotechnology for Biofuels*, 6(65), pp. 1-15.

Castonguay, Y., Dubé, M.-P., Cloutier, J., Bertrand, A., Michaud, R., and Laberge, S. (2013). "Molecular physiology and breeding at the crossroads of cold hardiness improvement.", *Physiologia Plantarum*, 147(1), pp. 64-74. doi : 10.1111/j.1399-3054.2012.01624.x

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Badea, A., Byun, B.-H., Marshall, K., Frick, M., Laberge, S., Simmonds, J.A., Thurston, G., Tsang, A., Qi, M., McAllister, T.A., Eudes, F., and Laroche, A. (2010). "Expression of biomass-degrading enzymes in triticale: an alternative system for improving cellulosic biofuel extraction.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #92, pp. 51. (Poster)

Austin, R.S., Yang, L., Zhang, J., Fung, P., Gong, Y., Wang, P.W., Laberge, S., Guttman, D.S., and McCourt, P. (2010). "Toward a transcriptomic reference assembly for Alfalfa.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #69, pp. 46. (Poster)

Aoun, M., Desgagnés, R., and Laberge, S. (2010). "Transcriptomic analysis of Alfalfa developing stems.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #57, pp. 43. (Poster)

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Ghobakhlou, A.F., Desgagnés, R., Gagné, D., Antoun, H., Prévost, D., and Laberge, S. (2008). "Global changes in gene expression associated with low temperature in Arctic rhizobia strain N33.", 3rd International Conference on Polar and Alpine Microbiology, Banff Centre, Banff, AB, Canada, May 11-15, 2008, pp. 38. (Abstract)

Castonguay, Y., Rémus-Borel, W., Cloutier, J., Laberge, S., Bertrand, A., and Michaud, R. (2008). "Analysis of dehydrin sequences from alfalfa populations recurrently selected for freezing tolerance.", 41st North American Alfalfa Improvement Conference (NAAIC) & 20th Trifolium Conference, Embassy Suites, Dallas, TX, USA, June 1-4, 2008.

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Research Publications:

2014

Palin, M.-F., Côrtes, C., Benchaar, C., Lacasse, P., and Petit, H.V. (2014). "mRNA Expression of lipogenic enzymes in mammary tissue and fatty acid profile in milk of dairy cows fed flax hulls and infused with flax oil in the abomasum.", *British Journal of Nutrition*, 111(6), pp. 1011-1020. doi : 10.1017/S0007114513003589

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Ster, C., Côté-Gravel, J., Allard, M., Gagnon, S., Potter, A., Talbot, B.G., Lacasse, P., and Malouin, F. (2012). "A focus on genes expressed by *Staphylococcus aureus* during bovine intramammary infection for vaccine development.", World Dairy Summit 2012, Cape Town, South Africa, November 4-8, 2012.

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Ster, C., Beaudoin, F., Jacques, M., Malouin, F., Diarra, M.S., and Lacasse, P. (2007). "Evaluation of a new Ag for vaccination against *S. aureus* mastitis.", 25th Western Canadian Dairy Seminar (WCDS), Capri Centre, Red Deer, AB, Canada, March 6-9, 2007.

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Research Publications:

2014

Messiga, A.J., Ba, Y., Ziadi, N., Bélanger, G., and Lafond, J. (2014). "Assessing the depletion of soil P following sequential extractions with Mehlich-3 and Olsen solutions.", *Archives of Agronomy and Soil Science*. doi : 10.1080/03650340.2014.884709

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Lafontaine, James Donald, Ph.D.

Research Scientist

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Research Publications:

2013

Lafontaine, J.D. and Walsh, J.B. (2013). "A revision of the genus *Ufeus* Grote with the description of a new species from Arizona (Lepidoptera, Noctuidae, Noctuinae, Xylenini, Ufeina).", *ZooKeys*, 264(Spec. Issue), pp. 193-207. doi : 10.3897/zookeys.264.3526

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Lafrenière, Carole, Ph.D. (Agr)

Research Scientist

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Research Publications:

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Lafrenière, C. and Drapeau, R. (2011). "Seeding patterns and companion grasses affect total forage yield and components of binary red clover-grass mixtures.", *Canadian Journal of Plant Science*, 91(1), pp. 91-97. doi : 10.4141/CJPS09085

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Berthiaume, R.R., Lafrenière, C., Fortin, J., Gariépy, C., Mandell, I.B., and Faucitano, L. (2012). "Growth, feed efficiency, carcass quality and consumer perception of beef cattle fed PM vs AM cut grass or a red clover-grass mixture.", XVI International Silage Conference, Hämeenlinna, Finland, July 2-4, 2012. (Abstract)

Berthiaume, R.R., Bélanger, G., Tremblay, G.F., and Lafrenière, C. (2012). "Investir dans les fourrages : ça vaut le coût ?", Le rendez-vous laitier. Association québécoise des industries de nutrition animale et céréalière (AQINAC) 2012, Best Western Hôtel Universel, Drummondville, QC, Canada, March 27, 2012, pp. 69-81.

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Research Publications:

2014

Simili da Silva, M., Tremblay, G.F., Bélanger, G., Lajeunesse, J., Papadopoulos, Y.A., Fillmore, S.A.E., and Jobim, C.C. (2014). "Forage energy to protein ratio of several legume–grass complex mixtures.", *Animal Feed Science and Technology*, 188, pp. 17-27. doi : 10.1016/j.anifeeds.2013.11.006

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Research Publications:

2013

Sohn, J.-C., Regier, J.C., Mitter, C., Davis, D.R., Landry, J.-F., Zwick, A., and Cummings, M.P. (2013). "A Molecular Phylogeny for Yponomeutoidea (Insecta, Lepidoptera, Ditrysia) and Its Implications for Classification, Biogeography and the Evolution of Host Plant Use.", *PLoS ONE*, 8(1, Article No. e55066). doi : 10.1371/journal.pone.0055066

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2011

Badea, A., Thurston, G., Simmonds, J.A., Frick, M., and Laroche, A. (2011). "Expression of an endoglucanase enzyme in corn and triticale: an alternative system for improving cellulosic biofuel extraction.", Plant & Animal Genome XIX Conference, Town & Country Convention Center, San Diego, CA, USA, January 15-19, 2011, P699, pp. 201. (Poster)

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Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Frick, M., Puchalski, B., Bakkeren, G., and Laroche, A. (2008). "Cytological aspects of host and non-host interactions involving *Ustilago hordei* on barley and wheat coleoptiles.", 16th Biennial Meeting on the Smuts and Bunts, Beltsville, MD, USA, June 9-12, 2008.

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Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Frick, M., Puchalski, B., Bakkeren, G., and Laroche, A. (2008). "Transcriptional analysis of host and non-host interactions between wheat and barley and the barley smut pathogen *Ustilago hordei*.", 16th Biennial Meeting on the Smuts and Bunts, Beltsville, MD, USA, June 9-12, 2008.

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Research Publications:

2009

Reinprecht, Y., Luk-Labey, S.-Y., Larsen, R.J., Poysa, V., Yu, K., Rajcan, I., Ablett, G.R., and Pauls, K.P. (2009). "Molecular basis of the low linolenic acid trait in soybean EMS mutant line RG10." *Plant Breeding*, 128(3), pp. 253-258. doi : 10.1111/j.1439-0523.2008.01571.x

Other Science Related Publications:

2009

Larsen, R.J. and Falk, D.E. (2009). "Evaluating cold tolerance using chlorophyll fluorescence.", Joint Annual Meeting of the CSA-CSSS-CSAFM: Sciences for Sustainability: Soils, Agronomy, and Atmosphere, University of Guelph, Guelph, ON, Canada, August 5-7, 2009.

2008

Larsen, R.J., Smith, P., Cowbrough, M., Falk, D.E., Quesnel, G., Baute, T., Tenuta, A.U., and Johnson, P. (2008). *A field guide to cereal staging.*, Bayer CropScience. (Guide)

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Research Publications:

2013

Liplap, P., Boutin, J., LeBlanc, D.I., Vigneault, C., and Raghavan, G.S.V. (2013). "Effect of hyperbaric pressure and temperature on respiration rates and quality attributes of Boston lettuce.", *International Journal of Food Science and Technology*. doi : doi:10.1111/ijfs.12288

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Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "Development of a simulation tool to predict the public health risks associated with microbiological hazards in Canadian food distribution systems.", 50th National Conference of the Canadian Institute of Food Science and Technology (CIFST's): Innovation meets Commercialization, Niagara Falls, ON, Canada, May 27-29, 2012. (Poster)

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Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "Développement d'un outil de simulation permettant de prédire les risques de santé publique associés aux dangers microbiologiques présents dans le système canadien de distribution des aliments.", 3e rencontre annuelle de l'Association Québécoise pour l'Innocuité Alimentaire (AQIA), Centre des Congrès de Lévis, Québec City, QC, Canada, September 13, 2012. (Poster)

Forney, C.F., Bezanson, G.S., Fan, L., Ells, T.C., and LeBlanc, D.I. (2012). "Development of the Low Temperature Thermal Treatment (LT3) Process to Sanitize Fresh-cut Cantaloupe.", United Fresh 2012, Dallas Convention Center, Dallas, TX, USA, May 1-23, 2012. (Poster)

Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "A simulation model to predict public health risks of pathogens in a Canadian food distribution system.", Society for Risk Analysis (SRA) 2012 Annual Meeting, San Francisco, CA, USA, December 9-12, 2012, T2-F.4.

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Boutin, J., LeBlanc, D.I., and Vigneault, C. (2010). "Controlled environment mini-chambers for measuring the effect of traceable and abusive environmental conditions during storage and transportation of fresh horticultural produce.", 2010 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010.

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Delaquis, P.J., Bach, S.J., LeBlanc, D.I., Brassard, J., Houde, A., Villeneuve, S., Bezanson, G.S., Diarra, M.S., Topp, E., Blais, B., Gajadhar, A., Bisaillon, J.-R., Fazil, A.M., Gilmour, M., Mattison, K., and Bidawid, S. (2009). "A systems-based approach for the assessment of microbiological threats to the food supply.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Presentation)

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LeBlanc, D.I. and Vigneault, C. (2008). "Predicting quality changes of fresh fruits and vegetables during postharvest handling and distribution (Editorial Review).", *Stewart Postharvest Review*, 4(4), pp. 1.1-1.3.

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Research Publications:

2013

Légère, A., Shirtliffe, S.J., Vanasse, A., and Gulden, R.H. (2013). "Extreme grain-based cropping systems: When herbicide-free weed management meets conservation tillage in Northern Climates.", *Weed Technology*, 27(1), pp. 204-211. doi : 10.1614/wt-d-12-00074.1

Légère, A., Vanasse, A., and Stevenson, F.C. (2013). "Low input management strategies and mature conservation tillage systems: agronomic potential in a cool humid climate.", *Agronomy Journal*, 105(3), pp. 745-754. doi : 10.2134/agronj2012.0483

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Lalonde, O., Légère, A., Stevenson, F.C., Roy, M., and Vanasse, A. (2012). "Carabid beetle communities after 18 years of conservation tillage and crop rotation in a cool humid climate.", *Canadian Entomologist*, 144(5), pp. 645-657. doi : 10.4039/tce.2012.55

Beckie, H.J., Johnson, E.N., and Légère, A. (2012). "Negative cross-resistance of acetolactate synthase inhibitor-resistant kochia (*Kochia scoparia*) to protoporphyrinogen oxidase and hydroxyphenylpyruvate dioxygenase-inhibiting herbicides.", *Weed Technology*, 26(3), pp. 570-574. doi : 10.1614/WT-D-12-00020.1

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Légère, A., Stevenson, F.C., and Benoît, D.-L. (2011). "The selective memory of weed seedbanks after 18 years of conservation tillage.", *Weed Science*, 59(1), pp. 98-106. doi : 10.1614/WS-D-10-00092.1

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Simard, M.-J., Panneton, B., Longchamps, L., Lemieux, C., Légère, A., and Leroux, G.D. (2009). "Validation of a Management Program Based on a Weed Cover Threshold Model: Effects on Herbicide Use and Weed Populations.", *Weed Science*, 57(2), pp. 187-193. doi : 10.1614/WS-08-090.1

Légère, A. (2009). "Weed science at the core of 21st century issues.", *Phytoprotection*, 90, pp. 5-11.

Eriksen-Hamel, N.S., Speratti, A.B., Whalen, J.K., Légère, A., and Madramootoo, C.A. (2009). "Earthworm populations and growth rates related to long-term crop residue and tillage management.", *Soil & Tillage Research*, 104(2), pp. 311-316. doi : 10.1016/j.still.2009.04.006

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Légère, A., Vanasse, A., Parent, G., Malhi, S.S., and Stevenson, F.C. (2013). "Productivity unleashed : crop and weed response to plowing 24 year-old no-till plots.", 53rd Annual Meeting of the Weed Science Society of America (WSSA), Baltimore, MD, USA, February 4-7, 2013.

Légère, A. and Stevenson, F.C. (2013). "Oh treatment mean difference – Where art thou? Multiple contrasts tests at the rescue.", 53rd Annual Meeting of the Weed Science Society of America (WSSA), Baltimore, MD, USA, February 4-7, 2013.

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Légère, A., Stevenson, F.C., and Vanasse, A. (2012). "In-season changes (post vs. pre weed control) in weed species richness and density vary with tillage and cropping system in corn and soybean.", 52nd Annual Meeting of the Weed Science Society of America (WSSA), Waikoloa, HI, USA, February 6-9, 2012.

Munger, H., Vanasse, A., Rioux, S., Bourget, N., and Légère, A. (2012). "Fusarium head blight in low-input conservation tillage bread wheat: the potentially positive impact of weeds.", 52nd Annual Meeting of the Weed Science Society of America (WSSA), Waikoloa, HI, USA, February 6-9, 2012.

Légère, A., Vanasse, A., and Shirliffe, S.J. (2012). "Extreme cropping systems: when herbicide-free weed management meets conservation tillage in Northern climates.", 52nd Annual Meeting of the Weed Science Society of America (WSSA), Waikoloa, HI, USA, February 6-9, 2012.

Légère, A., Stevenson, F.C., and Vanasse, A. (2012). "Weeds filling the void. Why weed management is critical in low input systems as tillage is reduced.", Canadian Weed Science Society 66th Annual Meeting, Fairmont Hotel, Winnipeg, MB, Canada, November 12-15, 2012.

2011

Hugh, J.B., Harker, K.N., Légère, A., Morrison, M.J., Séguin-Swartz, G.T., and Falk, K.C. (2011). "GM Canola: The Canadian Experience.", *Farm Policy Journal*, 8(1), pp. 43-49.

Légère, A., Beckie, H.J., Hrynewich, B.L., Lozinski, C., Johnson, E.N., Warwick, S.I., and Stevenson, C. (2011). "Kochia with ALS (AHAS) Mutations: More on the Manitoba Conundrum.", 51st Meeting Weed Science Society of America, Hilton Portland & Executive Tower Hotel, Portland, OR, USA, February 7-10, 2011. (Presentation)

Légère, A., Stevenson, C., Vanasse, A., and Lalonde, O. (2011). "Organic and Herbicide-free Systems Applied to Old Conservation Tillage Plots: The Weed Management Challenge.", 51st Annual Meeting of the Weed Science Society of America (WSSA), Hilton Portland & Executive Tower Hotel, Portland, OR, USA, February 7-10, 2011. (Poster)

2009

Légère, A., Stevenson, F.C., Benoît, D.-L., Whalen, J.K., and Vanasse, A. (2009). "Are earthworms responsible for the persistence of annual weeds in mature no-tillage systems?", XIIIème Colloque International Sur La Biologie Des Mauvaises Herbes, Dijon, France, September 8-10, 2009, pp. 70-77.

Légère, A., Beckie, H.J., and Warwick, S.I. (2009). "Fitness of *Kochia scoparia* biotypes with different ALS-inhibitor resistance mutations.", XIIIème Colloque International Sur La Biologie Des Mauvaises Herbes, Dijon, France, September 8-10, 2009. (Abstract)

Simard, M.-J., Panneton, B., Rouane, S., Leroux, G.D., Longchamps, L., and Légère, A. (2009). "Doses réduites d'herbicides et dynamique des populations de mauvaises herbes.", Cahier de conférence Événement conjoint en phytoprotection, CRAAQ/SPPQ, Drummondville, QC, Canada, October 22-23, 2009.

Légère, A. and Van Wychen, L. (2009). "The Weed Science Society of America's Multi-Prong Strategy in Dealing with Weeds and Invasive Plants.", in Darbyshire, S.J. and Prasad, R. (eds.) Proceedings of the Weeds Across Borders 2008 Conference, Alberta Invasive Plants Council, Canada, pp. 85-88.

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Simard, M.-J., Panneton, B., Longchamps, L., Lemieux, C., Légère, A., and Leroux, G.D. (2008). "Effect of Reduced Herbicide Rates Based on Image Sampling and Weed Cover Thresholds.", 5th International Weed Science Congress: weeds local problems, global challenge, Westin Bayshore Hotel, Vancouver, BC, Canada, June 23-27, 2008.

Warwick, S.I., Légère, A., and Simard, M.-J. (2008). "Do escaped transgenes persist in nature? Hybridization and introgression of transgenes from canola in weedy bird rape (*Brassica rapa* L.).", 10th International Symposium on the Biosafety of Genetically Modified Organisms (ISBGMO), Museum of New Zealand Te Papa Tongarewa, Wellington, New Zealand, November 16-21, 2008. (Poster)

Simard, M.-J., Légère, A., and Willenborg, C.J. (2008). "Flowering and seed-set phenology of transgenic *Brassica napus* cultivars: Effect on intraspecific gene flow.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008. (Poster)

Johnson, E.N., Watson, P.W., Shirtliffe, S.J., Blackshaw, R.E., and Légère, A. (2008). "Prairie Carnation: Support for Emerson's definition of a weed.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008, pp. 66.

Légère, A., Benoît, D.-L., and Stevenson, F.C. (2008). "Les banques de graines: un bilan après 18 ans de pratiques de conservation des sols.", Commémoration du Centenaire de la Société de protection des plantes du Québec (SPPQ), Musée national des beaux-arts du Québec, Québec City, QC, Canada, November 19, 2008.

2007

Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? Introgression of a transgene in weedy bird rape (*Brassica rapa* L.).", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 164, P3-32. (Poster)

Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? The case of an herbicide resistance transgene in a weedy population of bird rape (*Brassica rapa* L.).", 62nd Annual Meeting of the North Central Weed Science Society, Regency Hotel, St-Louis, MO, USA, December 10-13, 2007. (Poster)

Simard, M.-J., Légère, A., and Warwick, S.I. (2007). "Sympatry and hybridization of canola and bird rape (*Brassica rapa* L.) in Québec.", 62nd Annual Meeting of the North Central Weed Science Society, Regency Hotel, St-Louis, MO, USA, December 10-13, 2007. (Poster)

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Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? The case of an herbicide resistance transgene in a weedy population of bird rape (*Brassica rapa* L.).", Third International Conference on Coexistence between Genetically-Modified (GM) and non-GM based Agricultural Supply Chains (GMCC-07), Seville, Spain, November 20-21, 2007. (Poster)

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Research Publications:

2014

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Tekauz, A., Turkington, T.K., and Savard, M.E. (2014). "AAC Synergy barley.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-307

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Research Publications:

2014

Krobel, R., Lemke, R.L., Campbell, C.A., Zentner, R.P., McConkey, B.G., Steppuhn, H., De Jong, R., and Wang, H. (2014). "Water use efficiency of spring wheat in the semi-arid Canadian Prairies: Effect of legume green manure, type of spring wheat, and cropping frequency.", *Canadian Journal of Soil Science*, 94(2), pp. 223-235. doi : 10.4141/CJSS2013-016

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Bourchier, R.S., Floate, K.D., and LeSage, L. (2012). "Assessment of the diversity of biocontrol agents at historic leafy spurge release sites in Southern Alberta.", Entomological Society of Canada 62nd and Entomological Society of Alberta 60th joint Annual Meeting, Coast Edmonton Plaza Hotel, Edmonton, AB, Canada, November 4-7, 2012, #18. (Abstract)

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Research Publications:

2013

Toosi, B.M., Gratton, G., McCorkell, R.B., Wynne-Edwards, K.E., Woodbury, M.R., and Lessard, C.J. (2013). "Effects of pipothiazine palmitate on handling stress and on the characteristics of semen collected by electroejaculation in bison (*Bison bison*) bulls.", *Animal Reproduction Science*, 138(1-2), pp. 55-63. doi : 10.1016/j.anireprosci.2013.01.012

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Hussain, S.A., Lessard, C.J., and Anzar, M. (2011). "Cryopreservation of bison semen.", 36th Annual Meeting of American Society of Andrology, Montreal, Quebec, Canada, April 2-5, 2011.

Lessard, C.J., Leavins, N., and Dyck, M. (2011). "Estrogen influence on gene expression of pig oocytes during *in vitro* maturation.", 1st Meeting of the Ovarian Club The Oocyte: from Basic Research to Clinical Practice, Barcelona, Spain, November 3-6, 2011.

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Research Publications:

2014

Bovey, K., Widowski, T.M., Dewey, C., Devillers, N., Farmer, C., Lessard, M., and Torrey, S. (2014). "The effect of birth weight and age on the behavioral and physiological responses of piglets to tail docking and ear notching.", *Journal of Animal Science*, 92(4), pp. 1718-1727. doi : 10.2527/jas.2013-7063

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Bissonnette, N., Dudemaine, P.-L., Lessard, M., Labrecque, O., Roy, J.-P., and Fecteau, G. (2014). "Increased blood-circulating interferon gamma, interleukin 17 and osteopontin levels in bovine paratuberculosis.", 12th International Colloquium on Paratuberculosis, Parma, Italy. (Abstract)

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Morissette, B., Lessard, M., Guay, F., Matte, J.J., Gong, J., Wang, Q., Beaulieu, C., and Talbot, G. (2013). "Prebiotics, probiotic, nutraceuticals and functional food as feed additives that modulate the gut microbiota of weanling piglets challenged with *E. coli* lipopolysaccharides.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013. (Abstract)

Morissette, B., Lessard, M., Guay, F., Matte, J.J., Gong, J., Wang, Q., Beaulieu, C., and Talbot, G. (2013). "Prebiotics, probiotic, nutraceuticals and functional food as feed additives that modulate gut microbiota of weanling piglets.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013, pp. 46. (Poster)

Audet, I., Girard, C.L., Lessard, M., and Matte, J.J. (2013). "Métabolisme de l'homocystéine et performacnes de croissance chez le porcelet pendant l'allaitement et après le sevrage.", Journées d'Information scientifique en productions animales, Québec, Canada, pp. 28-29.

Lo Verso, L., Lessard, M., Talbot, G., Subirade, M., and Fliss, I. (2013). "Isolation and antibacterial activity of potential probiotic bacteria from pig gastrointestinal tract.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013, pp. 45. (Poster)

Abdelbasset, A., Lo Verso, L., Fliss, I., Lessard, M., Talbot, G., and Subirade, M. (2013). "Protection of probiotic bacteria in a symbiotic matrix.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013. (Poster)

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Morissette, B., Lessard, M., and Talbot, G. (2012). "Is there a link between piglet's weight gain and its intestinal bacteria?", 2ème symposium du Centre de Recherche et de Développement sur le Bovin Laitier et le Porc / 2nd Annual DSRDC/ CRDBLP Symposium on Animal Production, Sherbrooke, QC, Canada, November 28, 2012.

Talbot, G., Morissette, B., and Lessard, M. (2012). "The impact of piglet weight gain on the intestinal microbiota during lactation.", Canadian Society of Microbiologists (CSM) 62nd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Vancouver, BC, Canada, June 20-23, 2012, Abstract I1057. (Poster)

Lessard, M. (2012). "Development of novel feeding strategies aiming to improve gut development, defence functions, health and performance of piglets.", Swine Cluster CA members seminar. (Presentation)

Lessard, M., Deschêne, K., Savard, C., and Chorfi, Y. (2012). "Effects of DON on porcine intestinal immunity.", Symposium sur les mycotoxines, AQINAC, ANAC et partenaires, Brossard, QC, Canada, December 11, 2012. (Presentation)

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Michaud, N., Gauthier, S.F., Robitaille, G., Pouliot, Y., Tremblay, É., Beaulieu, J.-F., and Lessard, M. (2011). "Modulation de la réaction inflammatoire intestinale par des sous-produits du lait.", Colloque bisannuel du STELA la recherche laitière 2011, Hôtel Palace Royal, Québec City, QC, Canada, May 30-31, 2011.

Brousseau, J.P., Beaudoin, F., Lauzon, K., Talbot, G., Roy, D., and Lessard, M. (2011). "Effets de *Pediococcus acidilactici* et *Saccharomyces cerevisiae boulardii* sur le microbiote de l'iléon et du côlon chez le porcelet sevré.", 4e Symposium Annuel du Centre de Recherche en Infectiologie Porcine (CRIP), Université de Montréal, Saint-Hyacinthe, QC, Canada, May 30-31, 2011. (Abstract)

Blais, M., Chambers, J.R., Beaudoin, F., Gauthier, S.F., Pouliot, Y., and Lessard, M. (2011). "Regulation of inflammatory genes by milk fractions in human and swine intestinal epithelial cells.", 4e symposium du Centre de Recherche en Infectiologie Porcine (CRIP), Université de Montréal, Saint-Hyacinthe, QC, Canada, Page 18. (Presentation)

Chambers, J.R., Blais, M., Beaudoin, F., Gauthier, S.F., Pouliot, Y., and Lessard, M. (2011). "Effet du sérocolostrum sur l'expression de gènes de réponse inflammatoire dans les cellules épithéliales intestinales porcines IPEC J2 et les cellules de carcinome de côlon humain Caco-2/15.", XVII colloque annuel d'immuno-inflammation, Eastman, QC, Canada, June 17, 2011. (Presentation)

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Bovey, K., Devillers, N., Lessard, M., Farmer, C., Dewey, C., Widowski, T.M., and Torrey, S. (2010). "The effect of birth weight and age on the behavioural and physiological responses of piglets to tail docking and ear notching.", 44th Congress of the International Society for Applied Ethology, University of Agricultural Sciences, Uppsala, Sweden, August 4-7, 2010, pp. 34.

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Alain, K., Karrow, N.A., Thibault, C., Lessard, M., and Bissonnette, N. (2009). "Innate immune responses in dairy cows and study of promising candidate: osteopontin.", *Journal of Animal Science*, 87(E-Suppl. 2), pp. 198-199 (#T3). (Abstract)

Beaudoin, F., Farmer, C., St-Pierre, G., Lachance, M.-P., and Lessard, M. (2009). "Influence of prolonged photoperiod on immune status of piglets.", 3rd European Veterinary Immunology Workshop (EVIW) Satellite meeting of the 2nd European Congress of Immunology (ECI 2009), Berlin, Germany, September 10-13, 2009, pp. 57.

Alain, K., Karrow, N.A., Thibault, C., Lessard, M., and Bissonnette, N. (2009). "Development of a multiplex-PCR detection assay for simultaneous identification of the major pathogens causing mastitis in dairy milk.", *Journal of Animal Science*, 87(E-Suppl. 2), pp. 199-200 (#T6). (Abstract)

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Farmer, C., Giguère, A., Lessard, M., and Petit, H.V. (2009). "Feeding flax to late-pregnant and lactating sows: Effects on fatty acid profiles, hormones and performances of sows and their litters.", *Journal of Animal Science*, 87(Suppl. 2), pp. 64. (Abstract)

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Daudelin, J.-F., Lessard, M., Beaudoin, F., Nadeau, É., Bissonnette, N., and Fairbrother, J.M. (2008). "Effets de l'administration de probiotiques sur la colonisation d'une souche d'*Escherichia coli* entérotoxigène F4 et l'expression de cytokines chez le porc.", 4e Colloque international francophone de microbiologie animale, 4e rencontre internationale de l'industrie vétérinaire « Innovet 2008 », 2e Symposium du Centre de recherche en infectiologie porcine (CRIP), Hôtel des Seigneurs, Saint-Hyacinthe, QC, Canada, September 21-24, 2008. (Poster)

Lessard, M., Fairbrother, J.M., Nadeau, É., Dupuis, M., Gagnon, N., and Matte, J.J. (2008). "Impact of probiotics on homeostasis of vitamins B9 and B12 and modulation of immunity and resistance to *Escherichia coli* infection in weaned pigs.", *Canadian Journal of Animal Science*, 88(1), pp. 165. (Abstract)

Lessard, M., Giguère, A., and Matte, J.J. (2008). "Pyridoxine (vitamin B6) and tryptophan modulate immune response of weanling pigs.", *Canadian Journal of Animal Science*, 88(1), pp. 166. (Abstract)

Alain, K., Lessard, M., Karrow, N.A., Mallard, B.A., and Bissonnette, N. (2008). "Identification of the osteopontin transcript during the early phases of bovine intramammary infection caused by *Escherichia coli* and *Staphylococcus aureus* using suppressive subtractive hybridization.", 57th Annual Meeting of the CSAS/SCSA, University of Guelph, Guelph, ON, Canada, August 11-14, 2008, Abstract 152.

Daudelin, J.-F., Lessard, M., Beaudoin, F., Nadeau, É., and Fairbrother, J.M. (2008). "Effets de l'administration de probiotiques sur la colonisation d'une souche d'*E. coli* entérotoxigénique F4-positive chez le porc. Abstract E-01.", 4e Colloque international francophone de microbiologie animale, 4e rencontre internationale de l'industrie vétérinaire « Innovet 2008 », 2e Symposium du Centre de recherche en infectiologie porcine (CRIP), Hôtel des Seigneurs, Saint-Hyacinthe, QC, Canada, September 21-24, 2008, pp. 111, E01.

Daudelin, J.-F., Lessard, M., Beaudoin, F., Nadeau, É., Bissonnette, N., and Fairbrother, J.M. (2008). "L'administration de probiotiques affecte l'attachement d'*Escherichia coli* entérotoxigènes f4-positifs et l'expression de cytokines dans l'iléon du porcelet sevré.", INITIA: 5e Symposium "Le santé par les probiotiques", Centre des congrès de Québec, Québec City, QC, Canada, November 6-7, 2008.

Lessard, M. (2008). "Weaning stress and gut health in piglets.", Institut Rosell-Lallemand Scientific Exchange 2008, Hotel Clarendon, Québec City, QC, Canada, November 4-5, 2008. (Abstract)

Roques, E., Saron, W., St-Louis, M.-C., Massie, B., Gagnon, C.A., Lessard, M., and Archambault, D.J. (2008). "Expression of Porcine Reproductive and Respiratory Syndrome Virus GP5 and M structural proteins from replicating but non-disseminating Adenovirus vectors.", 89th Annual Meeting of the Conference of Research Workers in Animal Disease (CRWAD), Chicago Marriott, Downtown Magnificent Mile, Chicago, IL, USA, December 7-9, 2008. (Abstract)

Roques, E., Saron, W., St-Louis, M.-C., Massie, B., Gagnon, C.A., Lessard, M., and Archambault, D.J. (2008). "Expression of PRRSV GP5 and M structural proteins from replicating but non-disseminating Adenovirus vectors.", 2008 International PRRS Symposium: "PRRSV Reverse Genetics: From the Laboratory to the Field", Chicago Marriott, Downtown Magnificent Mile, Chicago, IL, USA, December 5-6, 2008. (Abstract)

Lessard, M., Boudry, G., Sève, B., Oswald, I.P., and Lallès, J.-P. (2008). "La consommation répétée de fumonisine B1 à faible dose influence la physiologie et la biologie intestinales. P009.", 7èmes Journées Francophones de Nutrition, Le Quartz Centre de Congrès, Brest, Brittany, France, November 26-28, 2008. (Poster)

Lallès, J.-P., Lessard, M., Oswald, I.P., and David, J.C. (2008). "Chronic feeding of low doses of fumonisin B1 increases stress protein levels in gastrointestinal tissues of weaned pigs.", 5th International Conference of the World Mycotoxin Forum, Hotels Van Oranje, Noordwijk aan Zee, The Netherlands, November 17-18, 2008. (Poster)

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Brousseau, J.P., Beaudoin, F., Roy, D., and Lessard, M. (2008). "Évaluation par T-RFLP de l'effet des probiotiques *Pediococcus acidilactici* et *Saccharomyces cerevisiae* boulardii sur la flore iléale du porcelet.", INITIA: 5e Symposium "Le santé par les probiotiques", Centre des congrès de Québec, Québec City, QC, Canada, November 6-7, 2008, SPP8-06. (Poster)

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Lévesque, C.A., Bilkhu, S., Chapados, J.T., Chen, W., Hambleton, S., Lewis, C.T., Oliver, K., and Seifert, K.A. (2012). "AeroNet: A Canadian spore trapping network monitoring fungi and bacteria with DNA barcodes and next generation sequencing.", The Role of Genomics & Bioinformatics in Protecting Canadians from Microbial Food Safety Risks Workshop, Southway Hotel and Conference Centre, Ottawa, ON, Canada, February 21-22, 2012, Invited oral presentation.

Chen, W., Lewis, C.T., Chapados, J.T., Hambleton, S., Seifert, K.A., Temple, K., Biernacka-Larocque, A., Robleh Djama, Z., and Lévesque, C.A. (2012). "Canada-wide spore-trapping network provides effective monitoring of microbial phytopathogens in air and rain samples.", Annual meeting of the American Phytopathological Society, Providence, RI, USA, August 4-8, 2012, In: *Phytopathology* 102: S4.22.

Rintoul, T., Lévesque, C.A., Robideau, G.P., Eggertson, Q.A., Rodrigue, N., Chen, W., Spies, C.F.J., Bala, K., de Cock, A.W.A.M., Coffey, M.F., Hamilton, J.P., Hambleton, S., Adhikari, B., and Buell, C.R. (2012). "Molecular diagnosis, identification and phylogeny of *Pythium*, *Phytophthium* and related genera.", 4th International Workshop on Phytophthora, *Pythium* and *Phytophthium*, College Park, MD, USA, May 21-25, 2012, Invited oral presentation.

2011

Robideau, G.P. and Lévesque, C.A. (2011). "Flagellin-like filaments of *Pythium aphanidermatum*: function and phylogeny.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011.

Bala, K., Lévesque, C.A., and Saville, B. (2011). "Differential gene expression responses of *Pythium aphanidermatum* within plant hosts during root rot disease development.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011.

Bala, K., Lévesque, C.A., and Saville, B. (2011). "Comparative analysis of gene expression in *Pythium aphanidermatum* during root-rot infection in multiple hosts.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011. (Presentation)

Lévesque, C.A., Robideau, G.P., Eggertson, Q.A., Rodrigue, N., Chen, W., Spies, C.F.J., de Cock, A.W.A.M., Hamilton, J., Adhikari, B., and Buell, C.R. (2011). "Comparative genomics opens up a new era for oomycete taxonomy, ecology and diagnostics.", 71th Annual Meeting Meeting of the North-East Division of the American Phytopathological Society: The Oomycetes: Current and Future Challenges, New Brunswick, NJ, USA, October 12-14, 2011.

Duncan, R.W. and Lévesque, C.A. (2011). "Platforms supporting GRDI pilot projects.", GRDI Scientific Planning Meeting, NRC, Ottawa, ON, Canada, June 21, 2011. (Presentation)

Lévesque, C.A., Robideau, G.P., Eggertson, Q.A., Rodrigue, N., Chen, W., Spies, C.F.J., Bala, K., de Cock, A.W.A.M., Hamilton, J., Adhikari, B., and Buell, C.R. (2011). "A case study with oomycetes on new approaches in taxonomy and ecology using next generation sequencing and comparative genomics.", The Research Horizons Seminar Series, McGill University, Macdonald Campus, Montréal, QC, Canada, October 27, 2011. (Presentation)

Robideau, G.P., Subramaniam, R., and Lévesque, C.A. (2011). "Inoculation of cucumber seedlings with purified *Pythium* flagellar protein: Effect on seedling growth and response to subsequent attack by *Pythium aphanidermatum* zoospores.", 4th International Biofumigation & Biopesticides Symposium, Sheraton Cavalier Hotel, Saskatoon, SK, Canada, October 18-21, 2011, Book:15.

Hambleton, S., Chen, W., Lewis, C.T., Bilkhu, S., Chapados, J.T., Oliver, K., Tenuta, A.U., and Lévesque, C.A. (2011). "AeroNet Canada: Profiling rust fungus diversity in spore trap samples with DNA barcoding and next generation sequencing.", North American Rust Workers Meeting (NARW), St. Paul, MN, USA, June 12, 2011. (Presentation)

Chen, W., Lewis, C.T., Chapados, J.T., Bilkhu, S., Hambleton, S., Seifert, K.A., and Lévesque, C.A. (2011). "Aerobiota diversity in Canada's air: Mining the metagenomic data.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011. (Presentation)

Lévesque, C.A., Bilkhu, S., Chapados, J.T., Chen, W., Hambleton, S., Lewis, C.T., Oliver, K., and Seifert, K.A. (2011). "AeroNet: A Canadian spore trapping network monitoring fungi and bacteria with DNA barcodes and next generation sequencing.", iBOL-Canada: The future of DNA Barcoding in Canada, Beaty Biodiversity Museum, UBC, Vancouver, BC, Canada, April 29-May 1, 2011. (Presentation)

Chen, W., Robleh Djama, Z., and Lévesque, C.A. (2011). "Phytophthora under surveillance.", Science Seminars on the Central Experimental Farm, AAFC, Ottawa, ON, Canada, March 28, 2011. (Presentation)

Chen, W., Robleh-Djama, Z., Coffey, M.D., Martin, F.N., Sarhan, C.E., Rodríguez, C.M., Brar, A., Radmer, L., Bilodeau, G.J., Denton, G., Denton, J., Henricot, B., Waghorn, I., and Lévesque, C.A. (2011). "Phytophthora under surveillance – The development of oligonucleotide arrays from multiple gene loci for the detection of Phytophthora species.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011. (Poster)

Eggertson, Q.A. and Lévesque, C.A. (2011). "Resolving the *Pythium ultimum* species complex.", Great Lakes St. Lawrence Spring Workshop in Mycology, Peterborough, ON, Canada, May 7-8, 2011.

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Kang, S., Mansfield, M.A., Park, B., Geiser, D.M., Ivors, K.L., Coffey, M.D., Grünwald, N.J., Martin, F.N., Lévesque, C.A., and Blair, J.E. (2010). "The promise and pitfalls of sequence-based identification of plant-pathogenic fungi and oomycetes (Letter to Editor).", *Phytopathology*, 100(8), pp. 732-737.

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Lévesque, C.A. (2009). "Fungal species "expression" with oligoarrays and RT-PCR.", *Canadian Journal of Plant Pathology*, 31(1), pp. 115. (Abstract)

Lévesque, C.A., Seifert, K.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2009). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 7th Annual CRTI Summer Symposium 2009, Ottawa, ON, Canada, June 16-18, 2009, pp. 10-11.

2008

Chen, W., Seifert, K.A., and Lévesque, C.A. (2008). "Development of a DNA array using signature oligonucleotides from Co1 barcodes for identification and detection of species of *Penicillium* subgenus *Penicillium*.", 2nd International Barcoding Conference, Taipei, Taiwan, September 17-21, 2008, pp. 81. (Abstract)

Chen, W., Seifert, K.A., and Lévesque, C.A. (2008). "Validation of a newly developed Co1 array, spotted at near-microarray density, for identification and detection of *Penicillium* subgenus *Penicillium*, Great Lakes", St. Lawrence Spring Workshop in Mycology (Regional conference), Toronto, ON, Canada, April 26-27, 2008. (Presentation)

Lévesque, C.A., Seifert, K.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2008). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 6th Annual Public Security S&T Summer Symposium, Sheraton Hotel, Edmonton, AB, Canada, June 9-12, 2008, pp. 79-80.

Chen, W., Seifert, K.A., and Lévesque, C.A. (2008). "Validation of a newly developed Co1 array, spotted at near-microarray density, for identification and detection of *Penicillium* subgenus *Penicillium*.", Towards a Barcoded Planet, Canadian Barcode of Life Network 2008 Scientific Symposium, Toronto, Canada, April 28-29, 2008. (Poster)

Hamilton, J.P., Lang, J.M., Leach, J.E., Lévesque, C.A., Powers, T., Tisserat, N., and Buell, C.R. (2008). "The Comprehensive Phytopathogen Genomics Resource.", ISMB 2008: International Society for Computational Biology (ISCB), The Metro Toronto Convention Centre, Toronto, ON, Canada, July 19-23, 2008. (Poster)

Lévesque, C.A., Robideau, G.P., Bala, K., and de Cock, A.W.A.M. (2008). "Progrès récents en taxinomie des oomycètes.", Réunion annuelle conjointe SPPQ-SEQ : La phytoprotection, 100 ans de découvertes : un tremplin vers l'avenir!, Québec City, QC, Canada, November 20-21, 2008. (Abstract)

de Cock, A.W.A.M., Lévesque, C.A., and Brouwer, M. (2008). "Taxonomy, phylogeny and identification in *Pythium*.", *Journal of Plant Pathology*, 90, pp. S2.430. (Abstract)

Barasubiye, T., Thompson, O., Peters, R.D., Seifert, K.A., Lévesque, C.A., Shinnars-Carnelley, T., Al-Mughrabi, K.I., Gilbert, G., and Howard, R.J. (2008). "The first record of *Fusarium graminearum* as a causal agent of potato dry rot in Canada.", Réunion annuelle conjointe SPPQ-SEQ : La phytoprotection, 100 ans de découvertes : un tremplin vers l'avenir!, Québec City, QC, Canada, November 20-21, 2008. (Abstract)

Cheung, F., Lang, G., Hamilton, J., Leach, D., Lévesque, C.A., Tisserat, N., and Buell, C.R. (2008). "Analysis of the *Pythium ultimum* transcriptome.", APS 2008 Centennial Meeting (APS North Central Division), Minneapolis, MN, USA, July 26-30, 2008, P-49. (Poster)

Robideau, G.P., Caruso, F.L., Oudemans, P.V., McManus, P.S., Renaud, M.-A., Auclair, M.-E., Bilodeau, G.J., Yee, D., Désaulniers, N.L., DeVerna, J.W., and Lévesque, C.A. (2008). "Detection of cranberry fruit rot fungi using DNA array hybridization [Canadian Journal of Plant Pathology-Revue canadienne de phytopathologie, 30(2), pp. 226-240] (Corrigendum).", *Canadian Journal of Plant Pathology*, 30(4), pp. 622.

Lévesque, C.A. (2008). "Fungal species "expression" with oligoarrays and RT-PCR.", Canadian Phytopathological Society (CPS) 79th Annual Meeting, Delta Prince Edward Hotel, Charlottetown, PEI, Canada, June 15-18, 2008.

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O'Gorman, D.T., Neilsen, G.H., Braumberger, J., and Lévesque, C.A. (2007). "Effect of mulch and bio-solid applications on the populations of both beneficial and pathogenic *Pythium* species in the root zone of apple.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 135, P1-28. (Abstract)

Lewis, C.T., Abbott, C.L., Chapados, J.T., Peters, R.D., Platt, H.W., Coffey, M.D., and Lévesque, C.A. (2007). "Development of a SNP based marker system based on variable microsatellite flanking regions for *Phytophthora infestans*.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 139, P1-41. (Abstract)

Punja, Z.K., Wan, A., Rahman, M., Goswami, R.S., Barasubiye, T., Seifert, K.A., and Lévesque, C.A. (2007). "Population dynamics, growth and seed transmission of *Fusarium equiseti* in ginseng.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 140, P1-44. (Abstract)

Lévesque, C.A. (2007). "Molecular diagnostics of soilborne fungal pathogens and applications to disease management.", in Punja, Z.K., DeBoer, S.H., and Sanfaçon, H. (eds.) *Biotechnology and Plant Diseases Management*, CABI Publishing, Wallingford, UK, Chapter 7.

Lévesque, C.A., Tambong, J.T., Barasubiye, T., Robideau, G.P., Chen, W., Renaud, M.-A., de Cock, A.W.A.M., and Seifert, K.A. (2007). "Applying DNA barcodes and functional genomics technologies for diagnostics and the study of fungal communities.", DNA Barcoding in Europe, Leiden, The Netherlands, October 3-5, 2007, pp. 15.

Tambong, J.T., Reid, L.M., Zhu, X., Woldemariam, T., Mwange, K.N., and Lévesque, C.A. (2007). "A Taqman real-time PCR assay for detection of the corn bacterial wilt pathogen, *Pantoea stewartii*.", 59th International Symposium on Crop Protection, Universiteit Gent, Ghent, Belgium, May 27, 2007.

Chen, W., Seifert, K.A., and Lévesque, C.A. (2007). "Oligonucleotide array design for identification and detection of *Penicillium* subgenus *Penicillium* using CO1 DNA barcodes.", Canadian Barcode of Life Science Symposium, Guelph, ON, Canada, May 10-11, 2007, pp. 31. (Abstract)

Robideau, G.P. and Lévesque, C.A. (2007). "DNA barcoding of oomycetes with the 5' end of Cytochrome Oxidase I (COI) gene.", 2007 Joint Annual Meeting of the American Phytopathological Society & Society of Nematologists, San Diego, CA, USA, July 28-August 1, 2007.

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Robideau, G.P., Smith, M.L., and Lévesque, C.A. (2007). "DNA barcoding of oomycetes with the Cytochrome Oxidase I (COI) gene.", Canadian Barcode of Life Science Symposium, Guelph, ON, Canada, May 10-11, 2007, pp. 35.

Bernard, K., Lévesque, C.A., Seifert, K.A., Babcock, C., Hayes, J.F., Scott, J., Summerbell, R.C., and Hollis, E. (2007). "BIO021AP Creating National Centres for Secure Biological Resources for Canada.", 5th Annual CRTI Summer Symposium 2007: Building Resiliency: from Concept to Operations, Château Cartier Resort, Gatineau, QC, Canada, June 11-15, 2007, pp. 115-116.

Bilodeau, G.J., Lévesque, C.A., de Cock, A.W.A.M., and Hamelin, R.C. (2007). "Assessment of codon volatility as an indicator of gene polymorphisms in *Phytophthora ramorum*.", 2007 Joint Annual Meeting of the American Phytopathological Society & Society of Nematologists, San Diego, CA, USA, July 28-August 1, 2007.

Bilodeau, G.J., Lévesque, C.A., de Cock, A.W.A.M., and Hamelin, R.C. (2007). "Assessment of codon volatility as an indicator of gene polymorphisms in *Phytophthora ramorum*.", *Phytopathology*, 97, pp. S10. (Abstract)

Buell, C.R., Diaz, G., Hamilton, J., Lang, J.M., Leach, J.E., Lévesque, C.A., Powers, T., Tisserat, N., and van Sluys, M. (2007). "A comprehensive genome-based diagnostics resource and pipeline for identification of threatening plant pathogens.", 2007 Joint Annual Meeting of the American Phytopathological Society & Society of Nematologists, San Diego, CA, USA, July 28-August 1, 2007.

Seifert, K.A., Lévesque, C.A., Babcock, C., Bissett, J.D., Hambleton, S., Lewis, C.T., Redhead, S.A., Brière, S.C., Côté, M.J., and Hamelin, R.C. (2007). "CRTI-04-0045RD Development of collections, reference/DNA databases and detection systems to counter bioterrorism against agriculture and forestry.", 5th Annual CRTI Summer Symposium 2007: Building Resiliency: from Concept to Operations, Château Cartier Resort, Gatineau, QC, Canada, June 11-15, 2007, pp. 79-80.

Lang, J.M., Buell, C.R., Leach, J.E., Tisserat, N., Powers, T., and Lévesque, C.A. (2007). "A Comprehensive Genome-based Diagnostics Resource and Pipeline for Identification of Threatening Plant Pathogens.", National Meeting of the National Plant Diagnostic Network, Orlando, FL, USA, January 28-31, 2007, pp. 23.

Buell, C.R., Diaz, G., Hamilton, J., Lang, J.M., Leach, J.E., Lévesque, C.A., Powers, T., Tisserat, N., and van Sluys, M. (2007). "A comprehensive genome-based diagnostics resource and pipeline for identification of threatening plant pathogens.", *Phytopathology*, 97, pp. S14. (Abstract)

Seifert, K.A., Hambleton, S., Renaud, M.-A., Samson, R.A., Houbroken, J.A.M.P., Chen, W., and Lévesque, C.A. (2007). "Development of new molecular methods for detecting food-borne molds.", *Food Mycology 2007: Emerging Mold Problems and Spoilage in Food and Beverages*, Westin Key West Resort & Marina, Key West, FL, USA, June 7-8, 2007, pp. 12-15.

Lévesque, C.A. (2007). "From barcodes to the biodiversity chip: a test case with fungi in the environment.", *Linnaeus 300 The Future of his Science*, Amsterdam, The Netherlands, October 1-2, 2007, pp. 12.

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Research Publications:

2014

Seo, S., L'Hocine, L., and Karboune, S. (2014). "Allergenicity of Potato Proteins and of their Conjugates with Galactose, Galactooligosaccharides and Galactan in Native, Heated and Digested Forms.", *Journal of Agricultural and Food Chemistry*. doi : 10.1021/jf5003073

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Seo, S., Karboune, S., L'Hocine, L., and Yaylayan, V.A. (2013). "Characterization of Glycated Lysozyme with Galactose, Galactooligosaccharides and Galactan: Effect of Glycation on Functional Properties of Lysozyme.", *Food Science and Technology LWT*, 53(1), pp. 44-53. doi : 10.1016/j.lwt.2013.02.001

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Eissa, S., Tlili, C., L'Hocine, L., and Zourob, M. (2012). "Electrochemical immunosensor for the milk allergen β -lactoglobulin based on electrografting of organic film on graphene modified screen-printed carbon electrodes.", *Biosensors and Bioelectronics*, 38(1), pp. 308-313. doi : 10.1016/j.bios.2012.06.008

Seo, S., Karboune, S., Yaylayan, V.A., and L'Hocine, L. (2012). "Glycation of lysozyme with galactose, galactooligosaccharides and potato galactan through the Maillard reaction and optimization of the production of prebiotic glycoproteins.", *Process Biochemistry*, 47(2), pp. 297-304. doi : 10.1016/j.procbio.2011.11.007

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2007

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L'Hocine, L., Boye, J.I., and Munyana, C. (2007). "Detection and quantification of soy allergens in food: study of two commercial enzyme-linked immunosorbent assays.", *Journal of Food Science*, 72(3), pp. C145-C153. doi : 10.1111/j.1750-3841.2007.00298.x

L'Hocine, L. and Boye, J.I. (2007). "Allergenicity of soybean: New developments in identification of allergenic proteins, cross-reactivities and hypoallergenization technologies.", *Critical Reviews in Food Science and Nutrition*, 47(2), pp. 127-143. doi : 10.1080/10408390600626487

Other Science Related Publications:

2013

Seo, S., Karboune, S., and L'Hocine, L. (2013). "Effects of glycation through the Maillard reaction on the allergenicity of potato proteins.", Institute of Food Technologists (IFT) 2013 Annual Meeting and Food Expo®, Chicago, Illinois, USA, July 13-16, 2013. (Poster)

2012

L'Hocine, L. (2012). "Impact of food matrix and processing on Allergens.", *LesMetsSages-AQAA*, 21(1).

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L'Hocine, L., Pitre, M., and Wanasundara, P.K.J.P.D. (2012). "Assessment of protein and IgE-binding profiles of select Canadian mustard seeds.", 50th National Conference of the Canadian Institute of Food Science and Technology (CIFST's): Innovation meets Commercialization, Niagara Falls, ON, Canada, May 27-29, 2012. (Poster)

L'Hocine, L. (2012). "Demystifying food allergens detection assays.", 22ième Colloque de l'AQAA, St-Pierre Centre, Montréal, QC, Canada, June 2, 2012. (Presentation)

L'Hocine, L. and Pitre, M. (2012). "Impact of extraction conditions on peanut and tree-nut allergens recovery, profile and immunoreactivity.", 7th Workshop on Food Allergen Methodologies, Montréal, QC, Canada, May 6-9, 2012. (Poster)

2011

L'Hocine, L. (2011). "Impact of food processing on allergens.", Zip technologique Les allergènes, Saint-Hyacinthe, QC, Canada, June 16, 2011. (Presentation)

2010

Boye, J.I., L'Hocine, L., and Rajamohamed, S.H. (2010). "Processing Foods without Soybean Ingredients.", in Boye, J.I. and Godefroy, S.B. (eds.) Allergen Management in the Food Industry, John Wiley & Sons, Ltd, Chapter 13, Section II.

L'Hocine, L., Pitre, M., Walckiers, J., and Tamim, O. (2010). "Optimized peanut allergens extraction technique appropriate for two-dimensional electrophoresis analysis and immunodetection.", 14th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 3-4, 2010.

L'Hocine, L., Pitre, M., and Guay, F. (2010). "Optimization of the preparation of non altered and natural allergens extracts from peanut and tree-nuts using a D-optimal experimental design.", 2010 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010.

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Achouri, A., Boye, J.I., Nail, V., and L'Hocine, L. (2009). "Impact of High Pressure and Thermal Processing on the Immunoreactivity of Sesame Protein Isolate.", 2009 Alberta Beekeepers Commission Annual General Meeting, Rosen Shingle Creek, Orlando, FL, USA, May 3-6, 2009.

2008

Lagacé, L., L'Hocine, L., Cournoyer, M., Robert, É., and Martin, N. (2008). "Étude de l'impact de l'injection d'air sur les propriétés du sirop d'érable.", Journées D'information En Acériculture: Cultiver L'avenir, Région de la Chaudière-Appalaches, QC, Canada, January 16-18-23-24, 2008.

2007

L'Hocine, L., Boye, J.I., and Jouve, S. (2007). "Soybean glycinin immunoreactivity as affected by changes in its conformational structure.", 98th Annual Meeting of the American Oil Chemists' Society (AOCS) & Expo, Québec City Convention Centre, Québec City, QC, Canada, May 13-16, 2007.

Achouri, A., Boye, J.I., Nail, V., and L'Hocine, L. (2007). "Impact of High Pressure and Thermal Processing on the Immunoreactivity of Sesame Protein Isolate.", American Oil Chemists Society Meeting 2007, Quebec City, Canada.

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Research Publications:

2014

Ekine-Dzivenu, C., Chen, L., Vinsky, M.D., Aldai, N., Dugan, M.E.R, McAllister, T.A., Wang, Z., Okine, E.K., and Li, C. (2014). "Estimates of genetic parameters for fatty acids in brisket adipose tissue of Canadian commercial crossbred beef steers.", *Meat Science*, 96(4), pp. 1517-1526. doi : 10.1016/j.meatsci.2013.10.011

Chen, L., Mao, F., Crews, Jr., D.H., Vinsky, M.D., and Li, C. (2014). "Phenotypic and genetic relationships of feeding behavior with feed intake, growth performance, feed efficiency, and carcass merit traits in Angus and Charolais steers.", *Journal of Animal Science*, 92(3), pp. 974-983. doi : 10.2527/jas.2013-6926

Karisa, B.K., Thomson, J., Wang, Z., Li, C., Montanholi, Y.R., Miller, S.P., Moore, S.S., and Plastow, G. (2014). "Plasma metabolites associated with residual feed intake and other productivity performance traits in beef cattle.", *Livestock Science*, 165, pp. 200-211. doi : 10.1016/j.livsci.2014.03.002

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Lu, D., Sargolzaei, M., Li, C., Abo-Ismael, M., Voort, G.V., Wang, Z., Plastow, G., Moore, S.S., and Miller, S.P. (2013). "Association analysis for feed efficiency traits in beef cattle using preserved haplotypes.", *Genome*, 56, pp. 586-591. doi : 10.1139/gen-2013-0072

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Research Publications:

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Other Science Related Publications:

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Lowery, D.T., Stobbs, L.W., Vickers, P.M., Bittner, L.A., and Greig, N. (2012). "Factors Affecting the Detection, Transmission and Management of Plum Pox Virus.", Canadian Phytopathological Society (CPS) 83rd Annual Meeting and International PPV Meeting, Marriott Gateway On The Falls, Niagara Falls, ON, Canada, June 24-27, 2012. (Presentation)

Lowery, D.T., Johnson, T.S., Cossentine, J.E., and Cory, J. (2012). "Cool caterpillars: Low temperature biological control of a climbing cutworm.", Entomological Society of America (ESA) 60th Annual Meeting, Knoxville Convention Centre, Knoxville, TN, USA, November 11-14, 2012, VP34. (Poster)

Olivier, C.Y., Saguez, J., Galka, B., Stobbs, L.W., Lowery, D.T., and Vincent, C. (2012). "Prevalence of phytoplasma diseases in Canadian vineyards.", 24th International Congress of Entomology (ICE 2012) and International Organization for Biological Control (IOBC) Global Symposium, Daegu, South Korea, August 19-25, 2012, PS4TH066. (Poster)

2011

Erlandson, M.A., Maghodia, A.B., Cossentine, J.E., Lowery, D.T., and Theilmann, D.A. (2011). "Genome structure of a nucleopolyhedrovirus infecting *Abagrotis reedi*, a cutworm pest of vineyards.", 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax, NS, Canada, August 7-11, 2011. (Poster)

Johnson, S., Lowery, D.T., Cory, J.S., and Cossentine, J.E. (2011). "Mycosis at cool temperatures: the susceptibility of the temperate grape cutworm *Abagrotis orbis* to entomopathogenic fungi.", Entomological Society of British Columbia 2011 Annual General Meeting, Abbotsford, BC, Canada, October 14, 2011.

Lowery, D.T. (2011). "Developing a Sustainable Pest Management Program for BC Grapes.", Cool Climate and Oenology Centre Speakers' Series, Brock University, St. Catharines, ON, Canada, April 5, 2011. (Presentation)

Johnson, S., Lowery, D.T., Cory, J.S., and Cossentine, J.E. (2011). "Mycosis at cool temperatures: the susceptibility of the temperate grape cutworm *Abagrotis orbis* to entomopathogenic fungi.", 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax, NS, Canada, August 7-11, 2011. (Poster)

Lowery, D.T. (2011). "Benefits of Native Vegetation for BC Vineyards.", Ecosystem Management for Sustainable Viticulture, Environmental Farm Plan and Okanagan Similkameen Conservation Alliance, Penticton, BC, Canada, February 16, 2011. (Presentation)

Smirle, M.J., Zurowski, C.L., Lowery, D.T., and Mostafa, A.M. (2011). "Response to Insecticides of Cutworm Pests of Grapes.", Entomological Society of Canada 61st and Acadian Entomological Society 71st joint Annual Meeting, Westin Nova Scotian Hotel, Halifax, NS, Canada, November 6-9, 2011.

Lowery, D.T. (2011). "Managing Cutworm Pests of Grapes: from the Ground up.", Entomological Society of Canada 61st and Acadian Entomological Society 71st joint Annual Meeting, Westin Nova Scotian Hotel, Halifax, NS, Canada, November 6-9, 2011.

2010

Olivier, C.Y., Galka, B., Saguez, J., Vincent, C., Lowery, D.T., Stobbs, L.W., Whybourne, K.J., Bittner, L.A., and Xiansheng, C. (2010). "Les jaunisses à phytoplasmes dans les vignobles canadiens Passés, présents et futurs projets de recherche.", *Entomologie faunistique*, 63(3), pp. 87-90.

Olivier, C.Y., Galka, B., Saguez, J., Vincent, C., Lowery, D.T., Stobbs, L.W., Whybourne, K.J., Bittner, L.A., and Xiansheng, C. (2010). "Les jaunisses à phytoplasmes dans les vignobles Canadiens Passés, présents et futurs projets de recherche.", VII Conférence Internationale Francophone d'Entomologie (CIFE 2010), Louvain la Neuve, Belgium, July 5-10, 2010.

Olivier, C.Y., Galka, B., Saguez, J., Vincent, C., Lowery, D.T., Stobbs, L.W., Whybourne, K.J., Bittner, L.A., Xiansheng, C., Lasnier, J., and Floate, K.D. (2010). "Les jaunisses à phytoplasmes dans les vignobles Canadiens: état de l'art.", VII Conférence Internationale Francophone d'Entomologie (CIFE 2010), Louvain la Neuve, Belgium, July 5-10, 2010.

Olivier, C.Y., Galka, B., Saguez, J., Lasnier, J., Vincent, C., Stobbs, L.W., and Lowery, D.T. (2010). "Why phytoplasma infection in leafhopper population is only correlated with grapevine yellow incidence in vineyards from Québec?", Entomological Society of Canada 60th and Entomological Society of British Columbia joint Annual Meeting, Coast Plaza Hotel, Vancouver, BC, Canada, October 31-November 3, 2010.

2009

Stobbs, L.W., Whybourne, K.J., Olivier, C.Y., and Lowery, D.T. (2009). Increasing Incidence of X-Disease in Ontario., Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), Toronto, ON, Canada.

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Bowen, P.A., Usher, K.B., Lowery, D.T., Neilsen, G.H., Sholberg, P.L., O'Gorman, D.T., and Cliff, M.A. (2008). Sustainable production of high quality wine grapes. Annual Report. (Report)

Bowen, P.A., Usher, K.B., Bogdanoff, C.P., and Lowery, D.T. (2008). "Making Wine for Science.", *British Columbia Fruit Grower Magazine*, 6(3), pp. 15-17.

Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Vincent, C., Saguez, J., Galka, B., Bittner, L.A., and Whybourne, K.J. (2008). "Phytoplasma disease in Canadian grapevines.", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008, pp. 66. (Abstract)

Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Vincent, C., Saguez, J., Galka, B., Bittner, L.A., and Whybourne, K.J. (2008). "Phytoplasma diseases in Canadian vineyards.", 1st International ENDURE Conference, La Grande Motte, France, October 12-15, 2008, O.46. (Abstract)

Lowery, D.T., Olivier, C.Y., Stobbs, L.W., Bowen, P.A., Bogdanoff, C.P., Vincent, C., Saguez, J., and Dickison, V. (2008). Update on BC Leafhopper Monitoring Program and AAFC Phytoplasma Working Group Research for 2007. Report to the CFIA National Grapevine Phytoplasma Working Group. (Report)

Lowery, D.T. (2008). "Development of a sustainable IPM program for BC grapes.", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008, pp. 59. (Abstract)

Sholberg, P.L., Lowery, D.T., Bowen, P.A., Haag, P., and Walker, M.C. (2008). "Effect of early leaf stripping on bunch rot, powdery mildew and sour rot of wine grapes.", in Burton, E.N and Williams, P.V. (eds.) Crop Protection Research Advances, Nova Science Publishers Inc, Chapter 8, pp. 199-211.

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Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Vincent, C., Saguez, J., Giordanengo, P., Boudon-Padieu, E., Papura, D., Malembic-Maher, S., Galka, B., and Bittner, L.A. (2007). "Maladies à phytoplasmes chez la vigne: Développement d'une collaboration franco-canadienne. Poster A14.", Institut national de la recherche agronomique (INRA) XVème Colloque PHYSIOLOGIE DE L'INSECTE Programme, Rennes, France, July 9-11, 2007. (Poster)

Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Galka, B., Bittner, L.A., and Vickers, T. (2007). "Phytoplasma diseases in Canadian vineyards.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 134, P1-23. (Abstract)

Neilsen, G.H., Lowery, D.T., Forge, T.A., Neilsen, D., and Ehret, D.L. (2007). "Organic fruit production: Managing reality and perception.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 87, SF1-2. (Abstract)

Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Galka, B., Bittner, L.A., and Vickers, P.M. (2007). "Grapevine yellows disease in Canadian vineyards.", 5th Ontario Fruit and Vegetable Convention (OFVC 2007), Brock University, St. Catharines, ON, Canada, February 21-22, 2007.

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Research Publications:

2012

Jiang, Q.-T., Ma, J., Zhao, S., Zhao, Q.-Z., Lan, X.-J., Dai, S.-F., Lu, Z.-X., Zheng, Y.-L., and Wei, Y.-M. (2012). "Characterization of HMW-GSs and their gene inactivation in tetraploid wheat.", *Genetica*, 140(7-9), pp. 325-335. doi : 10.1007/s10709-012-9683-4

He, J.-F., Goyal, R.K., Laroche, A., Zhao, M.G., and Lu, Z.-X. (2012). "Water stress during grain development affects starch synthesis, composition and physicochemical properties in triticale.", *Journal of Cereal Science*, 56(3), pp. 552-560. doi : 10.1016/j.jcs.2012.07.011

Diedhiou, C., Gaudet, D.A., Liang, Y., Sun, J.-Y., Lu, Z.-X., Eudes, F., and Laroche, A. (2012). "Carbohydrate profiling in seeds and seedlings of transgenic triticale modified in the expression of *sucrose:sucrose-1-fructosyltransferase (1-SST)* and *sucrose:fructan-6-fructosyltransferase (6-SFT)*.", *Journal of Bioscience and Bioengineering*, 114(4), pp. 371-378. doi : 10.1016/j.jbiosc.2012.05.008

Li, C.-Y., Li, C., Lu, Z.-X., Li, W.-H., and Cao, L.-P. (2012). "Morphological changes of starch granules during grain filling and seed germination in wheat.", *Starch*, 64(2), pp. 166-170. doi : 10.1002/star.201100093

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Jiang, Q.-T., Liu, T., Ma, J., Wei, Y.-M., Lu, Z.-X., Lan, X.-J., Dai, S.-F., and Zheng, Y.-L. (2011). "Characterization of barley *Prp1* gene and its expression during seed development and under abiotic stress.", *Genetica*, 139(10), pp. 1283-1292. doi : 10.1007/s10709-012-9630-4

Li, C.-Y., Li, W.-H., Lee, B.L., Laroche, A., Cao, L.-P., and Lu, Z.-X. (2011). "Morphological characterization of triticale starch granules during endosperm development and seed germination.", *Canadian Journal of Plant Science*, 91(1), pp. 57-67. doi : 10.4141/CJPS10039

2010

Gaudet, D.A., Wang, Y., Penniket, C., Lu, Z.-X., Bakkeren, G., and Laroche, A. (2010). "Morphological and Molecular Analyses of Host and Nonhost Interactions Involving Barley and Wheat and the Covered Smut Pathogen *Ustilago hordei*.", *Molecular Plant-Microbe Interactions*, 23(12), pp. 1619-1634. doi : 10.1094/MPMI-11-09-0271

Jiang, Q.-T., Wei, Y.-M., Lu, Z.-X., Pu, Z.-E., Lan, X.-J., and Zheng, Y.-L. (2010). "Structural variation and evolutionary relationship of novel HMW glutenin subunits from *Elymus glaucus*.", *Hereditas*, 147(3), pp. 136-141. doi : 10.1111/j.1601-5223.2010.02182.x

Jiang, Q.-T., Wei, Y.-M., Lu, Z.-X., Liu, T., Wang, J.-R., Pu, Z.-E., Lan, X.-J., and Zheng, Y.-L. (2010). "Characterization of a novel variant HMW-glutenin gene from *Elymus canadensis*.", *Genes and Genomics*, 32(4), pp. 361-367. doi : 10.1007/s13258-010-0028-3

Jiang, Q.-T., Wei, Y.-M., Andre, L., Lu, Z.-X., Pu, Z.-E., Peng, Y.-Y., and Zheng, Y.-L. (2010). "Characterization of ω -secalin genes from rye, triticale, and a wheat 1BL/1RS translocation line.", *Journal of Applied Genetics*, 51(4), pp. 403-411.

Li, C.-Y., Li, W.-H., Li, C., Gaudet, D.A., Laroche, A., Cao, L.-P., and Lu, Z.-X. (2010). "Starch Synthesis and Programmed Cell Death during Endosperm Development in Triticale (xTriticosecale Wittmack).", *Journal of Integrative Plant Biology (JIPB)*, 52(7), pp. 602-615. doi : 10.1111/j.1744-7909.2010.00961.x

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Xu, J.H., Frick, M., Laroche, A., Ni, Z.-F., Li, B.Y., and Lu, Z.-X. (2009). "Isolation and characterization of the rye *Waxy* gene.", *Genome*, 52(7), pp. 658-664. doi : 10.1139/G09-036

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Mallard, S., Negre, S., Pouya, S., Gaudet, D.A., Lu, Z.-X., and Dedryver, F. (2008). "Adult plant resistance-related gene expression in 'Camp Remy' wheat inoculated with *Puccinia striiformis*.", *Molecular Plant Pathology*, 9(2), pp. 213-225. doi : 10.1111/J.1364-3703.2007.00459.X

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Gaudet, D.A., Lu, Z.-X., Leggett, F.L., Puchalski, B., and Laroche, A. (2007). "Compatible and incompatible interactions in wheat involving the Bt-10 gene for resistance to *Tilletia tritici*, the common bunt pathogen.", *Phytopathology*, 97(11), pp. 1397-1405. doi : 10.1094/PHYTO-97-11-1397

Other Science Related Publications:

2012

Liu, X.-L., Jin, L., Xu, Z.J., Hao, Y.-Q., McAllister, T.A., Lu, Z.-X., and Yang, W.-Z. (2012). "Condensed tannin of purple prairie clover inhibited anti*Escherichia coli* activity through disrupting the outer and inner membrane.", Joint Annual Meeting, American Dairy Science Association, Poultry Science Association, American Milk Producers Association, Canadian Society of Animal Science, and American Society of Animal Science, Phoenix, Arizona, USA, July 15-19, 2012.

2008

Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Frick, M., Puchalski, B., Bakkeren, G., and Laroche, A. (2008). "Transcriptional analysis of host and non-host interactions between wheat and barley and the barley smut pathogen *Ustilago hordei*.", 16th Biennial Meeting on the Smuts and Bunts, Beltsville, MD, USA, June 9-12, 2008.

Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Frick, M., Puchalski, B., Bakkeren, G., and Laroche, A. (2008). "Cytological aspects of host and non-host interactions involving *Ustilago hordei* on barley and wheat coleoptiles.", 16th Biennial Meeting on the Smuts and Bunts, Beltsville, MD, USA, June 9-12, 2008.

Beres, B.L., Eudes, F., Graf, R.J., Spaner, D.M., Clarke, F.R., Salmon, D.F., Clarke, J.M., Singh, R.P., Knox, R.E., McLeod, G.J., Frick, M., Dion, Y., Lu, Z.-X., Randhawa, H.S., Laroche, A., Gaudet, D.A., McCallum, B.D., Cuthbert, R.D., Irvine, R.B., Voldeng, H.D., Martin, R.A., Pageau, D., Comeau, A., Pozniak, C.J., DePauw, R.M. (2008). "A Pan-Canadian ethanol feedstock study to benchmark the relative performance of triticale.", Plants and Soils: Montreal '08: Joint meeting of the CSHS, CSA and Northeastern Branch ASA-CSSA-SSSA, McGill University, Montréal, QC, Canada, July 13-16, 2008. (Poster)

2007

Gaudet, D.A., Penniket, C., Lu, Z.-X., Leggett, F.L., Puchalski, B., Bakkeren, G., and Laroche, A. (2007). "Histological observations on host and non-host interactions between wheat and barley and the smut pathogens *Tilletia tritici* and *Ustilago hordei*.", 28th Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, November 5-7, 2007. (Poster)

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Research Publications:

2013

Fox, S.L., Wise, I.L., Smith, M.A.H., Humphreys, D.G., Brown, P.D., McCallum, B.D., Fetch Jr., T.G., Menzies, J.G., Gilbert, J., Fernandez, M.R., Despina, T., Lukow, O.M., and Niziol, D. (2013). "Shaw hard red spring wheat.", *Canadian Journal of Plant Science*, 93(2), pp. 299-305. doi : 10.4141/cjps2012-137

Lukow, O.M., Adams, K., Suchy, J., DePauw, R.M., and Humphreys, D.G. (2013). "The effect of the environment on the grain colour and quality of commercially grown Canada hard white spring wheat, *Triticum aestivum* L. 'Snowbird'.", *Canadian Journal of Plant Science*, 93(1), pp. 1-11. doi : 10.4141/cjps2012-102

Humphreys, D.G., Townley-Smith, T.F., Czarnecki, E.M., Lukow, O.M., McCallum, B.D., Fetch Jr., T.G., Gilbert, J., Menzies, J.G., Brown, P.D., and Fox, S.L. (2013). "Snowstar hard white spring wheat.", *Canadian Journal of Plant Science*, 93(1), pp. 143-148. doi : 10.4141/cjps2012-146

Vera, C.L., Fox, S.L., DePauw, R.M., Smith, M.A.H., Wise, I.L., Clarke, F.R., Procnunier, J.D., and Lukow, O.M. (2013). "Relative performance of resistant wheat varietal blends and susceptible wheat cultivars exposed to wheat midge, *Sitodiplosis mosellana* (Géhin).", *Canadian Journal of Plant Science*, 93(1), pp. 59-66. doi : 10.4141/cjps2012-019

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Gao, X., Lukow, O.M., and Grant, C.A. (2012). "Grain concentrations of protein, iron and zinc and bread making quality in spring wheat as affected by seeding date and nitrogen fertilizer management.", *Journal of Geochemical Exploration*, 121, pp. 36-44. doi : 10.1016/j.gexplo.2012.02.005

Watts, B., Ryland, D., Malcolmson, L.J., Ambalamaatil, S., Adams, K., and Lukow, O.M. (2012). "Flavor properties of pan and pita breads made from red and white hard spring wheats.", *Journal of Food Quality*, 35(1), pp. 60-68. doi : 10.1111/j.1745-4557.2011.00426.x

Prashar, S., Wolfe, D., King, M.C., Vera, C.L., Fox, S.L., DePauw, R.M., Chen, G., Smith, M.A.H., Wise, I.L., Clarke, F.R., Lukow, O.M., and Procnunier, J.D. (2012). "Stability of midge tolerant varietal blends over 3-4 successive generations: High-speed / high-throughput, SNP-DNA fingerprinting in grain seeds.", *Journal of Plant Biochemistry and Biotechnology*, 3(2), pp. 1-10.

Fox, S.L., Lamb, R.J., McKenzie, R.I.H., Wise, I.L., Smith, M.A.H., Humphreys, D.G., Brown, P.D., Townley-Smith, T.F., McCallum, B.D., Fetch Jr., T.G., Menzies, J.G., Gilbert, J., Fernandez, M.R., Despina, T., Lukow, O.M., and Niziol, D. (2012). "Registration of 'Fieldstar' Hard Red Spring Wheat.", *Journal of Plant Registrations*, 6(2), pp. 161-168. doi : 10.3198/jpr2011.06.0329crc

2011

Borsuk, Y., Arntfield, S.D., Lukow, O.M., Swallow, K., and Malcolmson, L.J. (2011). "Incorporation of pulse flours of different particle size in relation to pita bread quality.", *Journal of the Science of Food and Agriculture*, 92(10), pp. 2055-2061. doi : 10.1002/jsfa.5581

Lukow, O.M., Suchy, J., Adams, K., Brown, P.D., DePauw, R.M., Fox, S.L., Humphreys, D.G., McCaig, T.N., and White, N.D.G. (2011). "Effect of Wheat Maturity and Post-Harvest Temperature Treatments on the Quality of Grain and End-Products.", *Journal of Agro Crop Science*, 2(2), pp. 15-22.

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Townley-Smith, T.F., Humphreys, D.G., Czarnecki, E.M., Lukow, O.M., McCallum, B.D., Fetch Jr., T.G., Gilbert, J., Menzies, J.G., and Brown, P.D. (2010). "Superb hard red spring wheat.", *Canadian Journal of Plant Science*, 90(3), pp. 347-352. doi : 10.4141/CJPS09087

Fenn, D., Lukow, O.M., Humphreys, D.G., Fields, P.G., and Boye, J.I. (2010). "Wheat-legume composite flour quality.", *International Journal of Food Properties*, 13(2), pp. 381-393. doi : 10.1080/10942910802571729

Fox, S.L., McKenzie, R.I.H., Lamb, R.J., Wise, I.L., Smith, M.A.H., Humphreys, D.G., Brown, P.D., Townley-Smith, T.F., McCallum, B.D., Fetch Jr., T.G., Menzies, J.G., Gilbert, J., Fernandez, M.R., Despina, T., Lukow, O.M., and Niziol, D. (2010). "Unity hard red spring wheat.", *Canadian Journal of Plant Science*, 90(1), pp. 71-78. doi : 10.4141/CJPS09024

Kerfal, S., Giraldo, P., Rodríguez-Quijano, M., Vázquez, J.F., Adams, K., Lukow, O.M., Röder, M.S., Somers, D.J., and Carrillo, J.M. (2010). "Mapping quantitative trait loci (QTLs) associated with dough quality in a soft x hard bread wheat progeny.", *Journal of Cereal Science*, 52(1), pp. 46-52. doi : 10.1016/j.jcs.2010.03.001

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2009

Fofana, B., Humphreys, D.G., Rasul, G., Cloutier, S., Woods, S.M., Brûlé-Babel, A.L., Lukow, O.M., and Somers, D.J. (2009). "Mapping quantitative trait loci controlling pre-harvest sprouting resistance in a red x white seeded spring wheat cross.", *Euphytica*, 165(3), pp. 509-521. doi : 10.1007/s10681-008-9766-6

Dua, S., Lukow, O.M., Humphreys, D.G., and Adams, K. (2009). "Effect of Extraction Methods and Wheat Cultivars on Gluten Functionality.", *Open Food Science Journal*, 3, pp. 84-92. doi : 10.2174/1874256400903010084

2008

Antón, A.A., Lukow, O.M., Fulcher, R.G., and Arntfield, S.D. (2008). "Shelf stability and sensory properties of flour tortillas fortified with pinto bean (*Phaseolus vulgaris* L.) flour: Effects of hydrocolloid addition.", *Food Science and Technology LWT*, 42(1), pp. 23-29. doi : 10.1016/j.lwt.2008.06.005

Antón, A.A., Ross, K.A., Lukow, O.M., Fulcher, R.G., and Arntfield, S.D. (2008). "Influence of added bean flour (*Phaseolus vulgaris* L.) on some physical and nutritional properties of wheat flour tortillas.", *Food Chemistry*, 109(1), pp. 33-41. doi : 10.1016/j.foodchem.2007.12.005

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Pronyk, C., Cenkowski, S., Muir, W.E., and Lukow, O.M. (2008). "Optimum processing conditions of instant asian noodles in superheated steam.", *Drying Technology*, 26(2), pp. 204-210. doi : 10.1080/07373930701831457

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McCartney, C.A., Somers, D.J., Fedak, G., DePauw, R.M., Thomas, J.B., Fox, S.L., Humphreys, D.G., Lukow, O.M., Savard, M.E., McCallum, B.D., Gilbert, J., and Cao, W. (2007). "The evaluation of FHB resistance QTLs introgressed into elite Canadian spring wheat germplasm.", *Molecular Breeding*, 20(3), pp. 209-221. doi : 10.1007/s11032-007-9084-z

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Other Science Related Publications:

2012

Lukow, O.M., Adams, K., Brown, P.D., DePauw, R.M., Fox, S.L., Humphreys, D.G., and Suchy, J. (2012). "Measurement of Phenolics, Carotenoids and Chlorophylls During Wheat Development in Different Environments.", Pittcon 2012, Orlando, FL, USA, March 11-16, 2012. (Poster)

Lukow, O.M., Suchy, J., Adams, K., and Arntfield, S.D. (2012). "Tortilla processing: Quality and phenolic composition at different levels of shortening.", 2012 IFT Annual Meeting, Las Vegas, NV, USA, June 25-28, 2012.

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Research Publications:

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Other Science Related Publications:

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Lupwayi, N.Z., Larney, F.J., Pearson, D.C., Kanashiro, D.A., and Blackshaw, R.E. (2014). "Shifts in soil microbial community structure after 12 years of conservation management on irrigated crop rotations.", 51st Annual Alberta Soil Science Workshop, Calgary, AB, Canada, February 12-14, 2014, pp. 37. (Abstract)

Larney, F.J., Li, L., Lupwayi, N.Z., Angers, D.A., Pearson, D.C., and Blackshaw, R.E. (2014). "Irrigated crop rotations: soil quality.", Irrigated Crop Production Update, Lethbridge, AB, Canada, January 21-22, 2014.

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Pageni, B.B., Lupwayi, N.Z., Akter, Z., Larney, F.J., and Kawchuk, L.M. (2013). "Characterization of bacterial endophytes from potato (*Solanum tuberosum* L.) reveals growth-promoting and antagonistic properties in vitro.", 50th Annual Alberta Soil Science Workshop, Lethbridge, AB, Canada, February 19-21, 2013.

Pearson, D.C., Larney, F.J., Blackshaw, R.E., and Lupwayi, N.Z. (2013). "Soil carbon changes over 12 years on the Vauxhall irrigated rotation study.", 50th Annual Alberta Soil Science Workshop, Lethbridge, AB, Canada, February 19-21, 2013. (Abstract)

2012

Larney, F.J., Pearson, D.C., Blackshaw, R.E., Lupwayi, N.Z., and Regitnig, P.J. (2012). "What have we learned about potatoes in the 12 yr Vauxhall irrigated rotation study.", Potato Growers of Alberta Annual Meeting, Red Deer, AB, Canada, November 13-15, 2012. (Poster)

Pageni, B.B., Lupwayi, N.Z., Larney, F.J., Kawchuk, L.M., Pearson, D.C., Blackshaw, R.E., and Gan, Y.T. (2012). "Characterization of bacterial endophytes associated with *Solanum tuberosum* in irrigated cropping systems.", 112th General Meeting of American Society for Microbiology, San Francisco, CA, USA, June 15-19, 2012. (Abstract)

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Larney, F.J., Pearson, D.C., Blackshaw, R.E., Lupwayi, N.Z., and Regitnig, P.J. (2012). "Building soil quality on irrigated rotations in southern Alberta.", 49th Annual Alberta Soil Science Workshop, Ramada Inn, Edmonton, AB, Canada, February 14-16, 2012. (Abstract)

Larney, F.J., Pearson, D.C., Blackshaw, R.E., Lupwayi, N.Z., Regitnig, P.J., and Balasubramanian, P.M. (2012). "Irrigated crop rotation research: Findings from the Vauxhall rotation study over 12 years (2000-11).", 2012 Irrigated Crop Production Update Conference, Lethbridge, AB, Canada, January 31-February 1, 2012. (Abstract)

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Lupwayi, N.Z. and Soon, Y.K. (2011). "Nitrogen fixation and multi-year N release from pulse crop residues.", Pulse Science Cluster Scientific Meeting 2011, Radisson Hotel, Saskatoon, SK, Canada, November 17-18, 2011. (Abstract)

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Lupwayi, N.Z. (2011). "Crop residues for improving biological soil health.", International No Till Conference, Dnipropetrovsk, Ukraine, June 29-July 1, 2011.

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Lysyk, T.J. and Dergousoff, S. (2013). "Variation in vectorial capacity of *C. sonorensis* for Bluetongue virus in Alberta.", International Congress of Vector Ecology, Palm Springs, California, USA.

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Rochon, K., Lysyk, T.J., and Selinger, L.B. (2012). "Immature development and *Escherichia coli* retention in house flies and stable flies.", Entomological Society of America (ESA) North Central Branch 2012 Annual Meeting, Lincoln, NE, USA, June 3-6, 2012.

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Zhang, T.Q., Tan, C.S., Ma, B.-L., and Ng, H.Y.F. (2012). "Effects of Compost Addition on Soil Phosphorus and Nitrate-N Losses in Tile Drainage Water under Long-term Conventional Tillage and No-tillage.", 2012 ASABE Annual International Meeting, Hilton Anatole Dallas, Dallas, TX, USA, July 29-August 1, 2012, Paper #12-1336986. 11 pages.

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Ma, B.-L. (2011). "Improvement of field crop production efficiency with the application of optical sensing technologies.", Dow AgroSciences, Indianapolis, IN, USA, February 27-March 2, 2011.

2010

Zhang, T.Q., Hu, Q.C., Wang, Y.T., O'Halloran, I.P., Tan, C.S., Reid, D.K., and Ma, B.-L. (2010). "Determination of manure and biosolids phosphorus source coefficients (PSCs) in Ontario soils.", 2010 Manure Expo: Balancing Production and Conservation, College of Ag Sciences, PennState, University Park, PA, USA, July 14-15, 2010. (Poster)

Gao, Y. and Ma, B.-L. (2010). "Nitrogen, phosphorus and zinc fertilizer application on the growth and zinc accumulation of canola.", 2010 Joint Conference of the Canadian Society of Soil Science (CSSS) and the Canadian Society of Agronomy (CSA): Transfers & Transformations: Our Evolving Biosphere, University of Saskatchewan, Saskatoon, SK, Canada, June 20-24, 2010. (Poster)

Wang, Y.T., Zhang, T.Q., Hu, Q.C., Tan, C.S., O'Halloran, I.P., Reid, D.K., Drury, C.F., Ma, B.-L., Ball Coelho, B.R., and Lauzon, J.D. (2010). "Estimating dissolved phosphorus concentrations in runoff water from six major Ontario soil series.", Environmental Sustainability 2010 Research Forum, Best Western Conference Centre, Guelph, ON, Canada, June 16, 2010. (Poster)

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Wang, Y.T., Zhang, T.Q., Hu, Q.C., Tan, C.S., O'Halloran, I.P., Drury, C.F., Reid, D.K., Ball Coelho, B.R., Ma, B.-L., and Lauzon, J.D. (2009). "Estimating dissolved phosphorus concentrations in runoff water from Six Major Ontario Soil Series under Rainfall Simulations.", Joint Annual Meeting of the CSA-CSSS-CSAFM: Sciences for Sustainability: Soils, Agronomy, and Atmosphere, University of Guelph, Guelph, ON, Canada, August 5-7, 2009. (Abstract)

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Research Publications:

2011

Macklin, J.A. and Phipps, J.B. (2011). "*Crataegus coccinea* var. *fulleriana* (Sargent) J.A. Macklin & J.B. Phipps, comb. et stat. nov.", *Phytoneuron*, 2011-29, pp. 1-1.

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Macklin, J.A., Cui, H., Morris, P.J., and Morris, R.A. (2011). "Floras in the 21st Century: The Flora of North America Saga.", XVIII International Botanical Congress, Melbourne Congress & Exhibition Centre, Melbourne, Australia, July 23-30, 2011, pp. 337. (Poster)

Nicolson, N., Paton, A., Macklin, J.A., Morris, P.J., Whitbread, G., and Gandhi, K. (2011). "Advancing the International Plant Names Index (IPNI).", XVIII International Botanical Congress, Melbourne Congress & Exhibition Centre, Melbourne, Australia, July 23-30, 2011, pp. 333. (Poster)

2010

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Wang, Z., Kelly, M., Lowery, D.B., Macklin, J.A., Morris, P.J., Morris, R.A., and Tremonte, D. (2009). "Capabilities and interfaces of a prototype Filtered Push network.", Biodiversity Information Standards (TDWG) Annual Conference 2009, CORUM Conference Center, Montpellier, France, November 9-13, 2009. (Abstract)

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Macklin, J.A., Morris, P.J., Morris, R.A., Wang, Z., and Kelly, M. (2009). "Herbarium Networks Part III: A prototype for exchange of botanical specimen data to reduce duplicative effort and improve quality using a 'filtered push'.", 24th Annual Meeting of SPNHC (SPNHC 2009) Bridging Continents, New Initiatives and Perspectives in Natural History Collections, Leiden, The Netherlands, July 6-11, 2009. (Abstract)

Morris, P.J., Kelly, M., Macklin, J.A., Morris, R.A., and Wang, Z. (2009). "Remote Annotations: Keeping natural history collections vital in an age of digital dissemination.", 24th Annual Meeting of SPNHC (SPNHC 2009) Bridging Continents, New Initiatives and Perspectives in Natural History Collections, Leiden, The Netherlands, July 6-11, 2009, Poster 20, pp. 99. (Poster)

Wang, Z., Dong, H., Kelly, M., Macklin, J.A., Morris, P.J., and Morris, R.A. (2009). "Filtered-Push: A Map-Reduce Platform for Collaborative Taxonomic Data Management.", 2009 WRI World Congress on Computer Science and Information Engineering (CSIE 2009), Los Angeles, CA, USA, March 31-April 2, 2009, Vol. 3, pp. 731-735.

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Morris, P.J., Dong, H., Kelly, M., Macklin, J.A., Morris, R.A., and Wang, Z. (2008). "Remote Annotation of Specimens: Use cases and messages of a Filtered Push network.", Biodiversity Information Standards (TDWG) Annual Conference 2008, Western Australian Maritime Museum, Fremantle, Perth, Australia, October 19-25, 2008. (Abstract)

Wang, Z., Dong, H., Kelly, M., Macklin, J.A., Morris, P.J., and Morris, R.A. (2008). "A Hadoop-Based Prototype for the Filtered-Push Project.", Biodiversity Information Standards (TDWG) Annual Conference 2008, Western Australian Maritime Museum, Fremantle, Perth, Australia, October 19-25, 2008. (Abstract)

Li, Q., Guo, W., Liao, W., Macklin, J.A., and Li, J. (2008). "Generic Limits in the subtribe Pyrinae (Rosaceae): Evidence from Nuclear and Chloroplast DNA Sequence Data.", Botanical Society of America (BSA) and Canadian Botanical Association Joint Meeting: Botany without Borders, University of British Columbia, Vancouver, BC, Canada, July 26-30, 2008, Abstract 571. (Abstract)

2007

Macklin, J.A. and Morris, P.J. (2007). "Scaling up The International Plant Names Index (IPNI).", Biodiversity Information Standards (TDWG) Annual Conference 2007, SÚZA (Správa účelových zariadení), Bratislava, Slovakia, September 16-22, 2007. (Abstract)

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Research Publications:

2014

Robitaille, G., Choinière, S., Ells, T.C., Deschênes, L., and Mafu, A.A. (2014). "Attachment of *Listeria innocua* to Polystyrene: Effects of Ionic Strength and Conditioning Films from Culture Media and Milk Proteins.", *Journal of Food Protection*, 77(3), pp. 427-434.

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Research Publications:

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Perry, G.E., Crosby, W.L., Yu, K., Navabi, A., Zou, X., Power, K.A., Marsolais, F., Xie, W., Weersink, A., Tsao, R., Cooper, D., and Pauls, K.P. (2012). "Sequencing the bean genome: Using comparative genomics to examine interspecific introgressions.", Canadian Society of Plant Biologists Meeting (CSPB 2012), University of Alberta Campus, Edmonton, AB, Canada, June 25-27, 2012. (Presentation)

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Research Publications:

2014

Reid, L.M., Zhu, X., Voloaca, C., Wu, J.-H., Woldemariam, T., Martin, R.A., and Beres, B.L. (2014). "CO450 corn inbred line.", *Canadian Journal of Plant Science*, 94(1), pp. 161-167. doi : 10.4141/cjps2013-190

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Research Publications:

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Research Publications:

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Other Science Related Publications:

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Singh, M.P., Singh, A.K., Clarke, J.M., Knox, R.E., Ammar, K., Singh, R.P., Pozniak, C.J., DePauw, R.M., Clarke, F.R., McCallum, B.D., Cuthbert, J.L., and Randhawa, H.S. (2011). "Molecular mapping of leaf rust and stripe rust resistance QTL in durum wheat.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011.

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DePauw, R.M., Somers, D.J., Cuthbert, R.D., McCallum, B.D., Knox, R.E., Voldeng, H.D., Humphreys, D.G., Fox, S.L., Singh, A.K., McCartney, C.A., and Fedak, G. (2011). "Are QTLs for fusarium head blight response additive?", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 70.

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McCallum, B.D. and Seto-Goh, P.L. (2010). "Leaf rust and stripe rust of wheat in Manitoba and Eastern Saskatchewan in 2009.", *Canadian Plant Disease Survey*, 90, pp. 108.

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McCallum, B.D., Somers, D.J., Humphreys, D.G., and Cloutier, S. (2008). "Molecular marker analysis of Lr34 in Canada Western Red Spring wheat cultivars.", 11th International Wheat Genetics Symposium (IWGS), Brisbane Convention & Exhibition Centre, Brisbane, Queensland, Australia, August 24-29, 2008, P137. (Abstract)

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Research Publications:

2014

Ghose, K., Selvaraj, K., McCallum, J.L., Kirby, C.W., Sweeney-Nixon, M., Cloutier, S., Deyholos, M.K., Datla, R.S.S., and Fofana, B. (2014). "Identification and functional characterization of a flax UDP-glycosyltransferase glucosylating secoisolariciresinol (SECO) into secoisolariciresinol monoglucoside (SMG) and diglucoside (SDG).", *BMC Plant Biology*, 14(82). doi : 10.1186/1471-2229-14-82

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Kirby, C.W., Wu, T., Tsao, R., and McCallum, J.L. (2013). "Isolation and structural characterization of unusual pyranoanthocyanins and related anthocyanins from Staghorn Sumac (*Rhus typhina* L.) via UPLC-ESI-MS, ¹H, ¹³C, and 2D NMR spectroscopy.", 52nd Annual meeting of Phytochemical Society of North America (PSNA), Corvallis, Oregon, USA, August 2-7, 2013.

Ghose, K., McCallum, J.L., Stetson, C., and Fofana, B. (2013). "Reducing potato anti-nutritional factors.", Open House (Poster), Harington, PE, Canada, August 16, 2013. (Presentation)

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Fofana, B., Main, D., Ghose, K., Grimmett, M.G., Kirby, C.W., McCallum, J.L., Peters, R.D., Drake, K.A., Locke, S.J., and Sweeney, M.E. (2011). "Improving the antioxidant capacity of field crops by increasing selenoprotein content.", 2011 Annual Meeting of the Canadian Phytopathological Society (with Plant Canada 2011), Halifax, NS, Canada, July 17-21, 2011, pp. 61, #1145. (Presentation)

Kirby, C.W., McCallum, J.L., Bernard, K., and Fofana, B. (2011). "Cooked Flax Bolls: An Alternative Omega-3 Fatty Acid Source.", MOOT XXIV NMR Minisymposium, Toronto, ON, Canada, October 21-22, 2011. (Poster)

2010

Johnson, J.B., Kulka, M., Wang, Y., Zidichouski, J., Saleh, T., Fofana, B., Kirby, C.W., McCallum, J.L., Sanderson, K.R., Berrue, F., Kerr, R., Mackinnon, S., Zhang, J., and Chapman, R.A. (2010). "Comparative evaluation of the immunomodulatory activities of selected Prince Edward Island rose hip varieties.", 10th Agricultural Biotechnology International Conference (ABIC), Saskatoon, SK, Canada, September 12-15, 2010. (Poster)

Ghose, K., McCallum, J.L., Kirby, C.W., Sanderson, K.R., and Fofana, B. (2010). "Genetic and metabolite diversity in Atlantic Canada wild roses and its implication in drug and cultivar development.", 2nd Maritime Natural Products Conference, Charlottetown, PEI, Canada, August 31-September 2, 2010.

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Kirby, C.W., McCallum, J.L., and Fofana, B. (2009). "NMR Studies of the Fatty Acids Present in Flax Seed Development.", MOOT XXII NMR Minisymposium, Carleton University, Ottawa, ON, Canada, October 17-18, 2009, 16. (Poster)

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Research Publications:

2012

Matlock, E.D., McCartney, C.A., and Gilbert, J. (2012). "Physiological specialization in the western Canadian population of *Phaeosphaeria nodorum*.", *Canadian Journal of Plant Pathology*, 34(1), pp. 75-82. doi : 10.1080/07060661.2012.664566

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Kassa, M.T., McCartney, C.A., You, F.M., McCallum, B.D., Hiebert, C.W., and Jordan, M.C. (2012). "Marker development for the wheat leaf rust resistance gene Lr16 using a comparative genomic approach.", 22nd International Triticeae Mapping Initiative (ITMI) and 4th National Wheat Genomics Committee Joint Workshop, Fargo, ND, USA, June 25-29, 2012.

Gnanesh, B.N., McCartney, C.A., Mitchell Fetch, J.W., Menzies, J.G., Beattie, A.D., and Eckstein, P.E. (2012). "Validation and deployment of breeder-friendly markers for oat crown rust resistance gene *Pc91*.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

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Research Publications:

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Vyas, D., McGeough, E.J., McGinn, S.M., McAllister, T.A., Smith, A.H., and Beauchemin, K.A. (2013). "Methane emissions in response to various Propionibacterium strains in beef heifers fed high forage diet.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P47, pp. 45. (Poster)

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McGeough, E.J., Little, S.M., Janzen, H.H., McAllister, T.A., McGinn, S.M., and Beauchemin, K.A. (2013). "Greenhouse gas emissions from dairying in Eastern Canada – Effects of varying dairy cow replacement rate.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P42, pp. 42. (Poster)

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McGeough, E.J., Chung, Y.-H., Beauchemin, K.A., McGinn, S.M., Harstad, O.M., and McAllister, T.A. (2012). "Methane emissions and diet digestibility from sheep offered diets varying in fat content and nutritive value", Symposium on "Agriculture and greenhouse gases", Oslo, Norway, November 5-6, 2012. (Poster)

Hünerberg, M., McAllister, T.A., McGinn, S.M., Beauchemin, K.A., and Okine, E.K. (2012). "Use of dried distillers' grains with solubles to reduce enteric methane emissions from growing beef cattle.", Symposium on "Agriculture and greenhouse gases", Oslo, Norway, November 5-6, 2012. (Poster)

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Research Publications:

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Research Publications:

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Other Science Related Publications:

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Drury, C.F., Reynolds, W.D., Yang, X.M., Tan, C.S., and McLaughlin, N.B. (2013). "Agronomic and soil quality benefits of cover crops.", Middle West Cover Crop Council Meeting Making Sense with Cover Crops Workshop, London, ON, Canada, February 28 March 1, 2013. (Workshop)

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Meadus, W.J., Chau, W., Aslam, M., and Bing, D.-J. (2010). "Identifying cultivated pea varieties using a rapid DNA test for the retro-transposon genes *Ogre* and *Cyclops*.", 5th International Food Legumes Research Conference (IFLRC V) and 7th European Conference on Grain Legumes (AEP VII), Antalya, Turkey, April 26-30, 2010.

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Aalhus, J.L., Uttaro, B., Robertson, W.M., Dugan, M.E.R, Caine, W.R., Meadus, W.J., and Larsen, I.L. (2008). "Carcass and quality characteristics of cull swine preliminary data.", Annual Canadian Meat Science Association (CMSA) Meeting, Niagara Falls, ON, Canada, May 7-9, 2008. (Abstract)

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Research Publications:

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Kolotilin, I., Kaldis, A., Pereira, E.O., Laberge, S., and Menassa, R. (2013). "Optimization of transplastomic production of hemicellulases in tobacco: effects of expression cassette configuration and tobacco cultivar used as production platform on recombinant.", *Biotechnology for Biofuels*, 6(65), pp. 1-15.

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Other Science Related Publications:

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Kolotilin, I., Kaldis, A., Pereira, E.O., Laberge, S., and Menassa, R. (2013). "Diverse Effects of Chloroplast Expression Cassette Configuration on Transplastomic Production of Hemicellulases in Tobacco.", 3rd International Symposium on Chloroplast Genomics and Genetic Engineering, Rutgers University, New Brunswick, NJ, USA, May 8-11, 2013, L33, P603, Published in: *Biotechnology for Biofuels*. 6(1):65.

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Saberianfar, R., Gutierrez, S., Joensuu, J.J., Kohalmi, S.E., and Menassa, R. (2012). "Characterizing the critical elements of protein body biogenesis by transient expression of elastin-like polypeptide and hydrophobin fusion tags in *N. benthamiana* leaves.", 8th Canadian Plant Biotechnology Conference, University of Guelph, Guelph, ON, Canada, May 14-17, 2012.

Kolotilin, I., Kaldis, A., Devriendt, B., Joensuu, J.J., Cox, E., and Menassa, R. (2012). "Production of a subunit vaccine candidate against porcine post weaning diarrhea in high biomass transplastomic tobacco.", 8th Canadian Plant Biotechnology Conference, University of Guelph, Guelph, ON, Canada, May 14-17, 2012. (Poster)

Menassa, R., Ahmad, A., and Joensuu, J.J. (2012). "Transient Expression Using Agroinfiltration and Its Applications in Molecular Farming.", in Wang, A. and Ma, S. (eds.) *Molecular Farming in Plants: Recent Advances and Future Prospects*, Springer, Chapter 9, pp. 183-198.

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Menassa, R. (2011). "Developing novel bioproducts: plant-made pharmaceuticals and industrial enzymes.", Department of Biology, McGill University, Montréal, QC, Canada, April 4, 2011. (Presentation)

Kaldis, A., Brandle, J.E., and Menassa, R. (2011). "BY-2 cells as a production platform for intracellular recombinant proteins.", 8th Canadian Plant Genomics Workshop, Niagara Falls, ON, Canada, August 22-25, 2011.

Gutierrez, S., Saberianfar, R., and Menassa, R. (2011). "Protein Bodies formation in stable transgenic plants of *Nicotiana tabacum* expressing elastin-like polypeptide and hydrophobin fusions.", 8th Canadian Plant Genomics Workshop, Niagara Falls, ON, Canada, August 22-25, 2011.

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Pereira, E.O., Kolotilin, I., and Menassa, R. (2011). "Production and characterization of polygalacturanase from *Aspergillus niger* and its fusions with hydrophobin and ELP tag using *Nicotiana benthamiana* as bioreactor.", 1st Brazilian BioEnergy Science and Technology Conference, Campos do Jordão, São Paulo, SP, Brazil, August 14-18, 2011.

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Feeney, M., Tang, X., Cui, Y., and Menassa, R. (2008). "Seed storage protein trafficking and localization in leaves of *Arabidopsis* mutants.", 19th International Conference on Arabidopsis Research (ICAR), Hyatt Regency Hotel, Montréal, QC, Canada, July 23-27, 2008, ICAR9010, pp. 185. (Abstract)

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Research Publications:

2014

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Tekauz, A., Turkington, T.K., and Savard, M.E. (2014). "AAC Synergy barley.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-307

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Thomas, J.B., Fox, S.L., McCallum, B.D., Fetch Jr., T.G., Gilbert, J., Menzies, J.G., Wise, I.L., Smith, M.A.H., Despains, T., Niziol, D., Humphreys, D.G., and Brown, P.D. (2013). "Vesper hard red spring wheat.", *Canadian Journal of Plant Science*, 93(2), pp. 315-321. doi : 10.4141/cjps2012-233

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Humphreys, D.G., Townley-Smith, T.F., Czarnecki, E.M., Lukow, O.M., McCallum, B.D., Fetch Jr., T.G., Gilbert, J., Menzies, J.G., Brown, P.D., and Fox, S.L. (2013). "Snowstar hard white spring wheat.", *Canadian Journal of Plant Science*, 93(1), pp. 143-148. doi : 10.4141/cjps2012-146

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Research Publications:

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Miller, J.J., Beasley, B.W., Hao, X., Larney, F.J., and Drury, C.F. (2014). "Transport of chemicals through intact soil cores amended with composted or stockpiled feedlot manure with wood-chip or straw bedding.", 51st Annual Alberta Soil Science Workshop, Calgary, AB, Canada, February 12-14, 2014, pp. 31. (Abstract)

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Miller, J.J. (2012). "Watershed Evaluation of Beneficial Management Practices (WEBs project) in the Lower Little Bow River Basin of Southern Alberta.", Agricultural Issues class, University of Lethbridge, Lethbridge, AB, Canada, March 21, 2012. (Presentation)

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Research Publications:

2011

Abdel-Aal, E-S.M., Hucl, P.J., Miller, S.S., and Patterson, C.A. (2011). "Microstructure and nutrient composition of hairless canary seed and its potential as a blending flour for food use.", *Food Chemistry*, 125(2), pp. 410-416. doi : 10.1016/j.foodchem.2010.09.021

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Miller, S.S., Voldeng, H.D., and Watson, E.M. (2012). "Iron and protein in experimental wheat lines carrying the Gpc-b1 gene from wild emmer wheat.", 2012 International Annual Meeting of the American Association of Cereal Chemists (AACC), The Westin Diplomat, Hollywood, FL, USA, September 30-October 3, 2012, Published in Supplement Cereal Food World, 57(4) A26. (Presentation)

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Cao, W., Fedak, G., Somers, D.J., Voldeng, H.D., Xue, A.G., Savard, M.E., and Miller, S.S. (2009). "Application of MAS for development of white seeded wheat resistant to Fusarium head blight.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 59.

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Miller, S.S. and Frégeau-Reid, J.A. (2009). "Microstructure and nutrient distribution in oats: Influence on quality.", SPIE Scanning Microscopy 2009, Portola Plaza Hotel, Monterey, CA, USA, May 4-7, 2009. (Presentation)

Miller, S.S. and Pietrzak, L.N. (2009). "Microchemical study of oat kernels using synchrotron FTIR microspectroscopy.", Canadian Light Source Annual User's Meeting, Saskatoon, SK, Canada, June 17-18, 2009. (Poster)

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Miller, S.S. and Rosnagel, B.G. (2009). "Resin embedding of whole groats for rapid evaluation of β -glucan distribution in oats.", 2009 International Annual Meeting of the American Association of Cereal Chemists (AACC), Baltimore, MD, USA, September 13-16, 2009.

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Paré, J.R.J., Bélanger, J.M.R., and Miller, S.S. (2008). "Novel Extraction Technologies Based on Microwaves.", 2008 Global Congress on Microwave Energy Applications (GCMEA), Otsu Prince Hotel, Lake Biwa, Otsu, Japan, August 4-8, 2008.

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Miller, S.S., Ouellet, T., Fedak, G., Watson, E.M., Lazebnik, J., and Wang, J.-R. (2007). "Characterization of an alien source of resistance to FHB transferred to Chinese Spring wheat.", 5th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2007, pp. 125. (Workshop)

Pietrzak, L.N. and Miller, S.S. (2007). "Application of microspectroscopy techniques to cereal chemistry in situ.", 2007 American Association of Cereal Chemists (AACC) International Meeting, San Antonio, TX, USA, October 7-10, 2007. (Presentation)

Miller, S.S. (2007). The impact of hull and pericarp characteristics on oat quality. Presentation and status report to Pepsi-QTG and Oat & Barley Council of Ontario (OBCO). (Report)

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Research Publications:

2013

Sangha, J.S., Chen, Y.H., Kaur, J., Khan, W., Abduljaleel, Z., Alanazi, M.S., Mills, A.A.S., Adalla, C.B., Bennett, J., Prithviraj, B., Jahn, G.C., and Leung, H. (2013). "Proteome analysis of rice (*Oryza sativa* L.) mutants reveals differentially induced proteins during brown planthopper (*Nilaparvata lugens*) infestation.", *International Journal of Molecular Sciences*, 14(2), pp. 3921-3945. doi : 10.3390/ijms14023921

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Other Science Related Publications:

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Rodd, A.V., Nyiraneza, J., Henry, R., Peters, R.D., Grimmett, M.G., and Mills, A.A.S. (2013). "Compost from the sea for agricultural production. Compost council of Canada regional meeting.", Compost matters in Atlantic Canada, Westmorland-Albert Solid Waste Corporation, Moncton, NB, Canada, March 13-14, 2013.

Mills, A.A.S. (2013). "Oilseed crop rotational study with potatoes.", Atlantic Cereal & Oilseed Symposium, Fredericton Inn, Fredericton, NB, Canada, February 13-14, 2013.

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Research Publications:

2014

Mimee, B., Peng, H., Popovic, V., Yu, Q., Duceppe, M.-O., Tetreault, M.P., and Bélair, G. (2014). "First report of soybean cyst nematode (*Heterodera glycines* Ichinohe) on soybean in the province of Quebec, Canada.", *Plant Disease*, 98(3), pp. 429. doi : 10.1094/PDIS-07-13-0782-PDN (Abstract)

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Other Science Related Publications:

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Boucher, A.C., Mimee, B., Montarry, J., Bardou-Valette, S., Bélair, G., Moffett, P., Grenier, É., and others (2013). "New information on the historical introduction of the golden nematode in North America.", Congrès annuel du Potato Association of America (PAA), Québec, QC, Canada, July 28 August 1, 2013.

Toussaint, V., Ciotola, M., Cadieux, M., Racette, G., Duceppe, M.-O., and Mimee, B. (2013). "Identification and temporal distribution of different species of beetles as potential vector-agent of *Erwinia tracheiphila*, the causal agent of bacterial wilt of cucurbits.", American Phytopathological Society (APS) and the Mycological Society of America (MSA) Joint Meeting 2013, Austin, TX, USA, August 10-14, 2013.

Mimee, B., Véronneau, P.-Y., Jean, M., Duceppe, M.-O., Bélair, G., Belzile, F.J., and others (2013). "Can we link the different pathotypes of the golden cyst nematode *Globodera rostochiensis* to genotype using single nucleotide polymorphism (SNP) markers?", Congrès annuel de l'Organization of Nematologists of Tropical America (ONTA), La Serena, Chile, October 20-25, 2013.

Rott, M., Mimee, B., Belton, M., and others (2013). "Genomic sequence comparisons between isolates of *Globodera rostochiensis*.", Congrès annuel de l'American Phytopathological Society (APS conjoint MSA), Austin, TX, USA, 10 au 14 août 2013.

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Bélair, G., Simard, L., and Mimee, B. (2011). "Crop rotation for the management of the golden nematode *Globodera rostochiensis* in Canada.", Society of Nematologists 50th Anniversary Meeting, Corvallis, OR, USA, July 17-20, 2011, pp. 51.

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Mimee, B. (2009). "Du bio à l'antibio.", *Horti-Plus*, 21(10).

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Research Publications:

2013

Oliver, R.E., Tinker, N.A., Lazo, G.R., Chao, S., Jellen, E.N., Carson, M.L., Rines, H.W., Obert, D.E., Lutz, J.D., Shackelford, I., Korol, A., Wight, C.P., Gardner, K.M., Hattori, J., Beattie, A.D., Bjørnstad, A., Bonman, J.M., Jannink, J.-L., Sorrells, M.E., Brown Guedira, G.L., Mitchell Fetch, J.W., Harrison, S.A., Howarth, C.J., Ibrahim, A.A., Kolb, F.L., McMullen, M.S., Murphy, J.P., Ohm, H.W., Rosnagel, B.G., Yan, W., Miclaus, K.J., Hiller, J., Maughan, P.J., Redman Hultz, R.R., Anderson, J.M., Islamovic, E., and Jackson, E.W. (2013). "SNP discovery and chromosome anchoring provide the first physically-anchored hexaploid oat map and reveal synteny with model species.", *PLoS ONE*, 8(3, Article No.e58068). doi : 10.1371/journal.pone.0058068

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Yan, W., Mitchell Fetch, J.W., Frégeau-Reid, J.A., Rosnagel, B.G., and Ames, N.P. (2011). "Genotype x Location Interaction Patterns and Testing Strategies for Oat in the Canadian Prairies.", *Crop Science*, 51(5), pp. 1903-1914. doi : 10.2135/cropsci2010.09.0548

Chong, J., Gruenke, J., Dueck, R., Mayert, W., Mitchell Fetch, J.W., and McCartney, C.A. (2011). "Virulence of *Puccinia coronata* f. sp. *avenae* in the eastern prairie region of Canada during 2007-2009.", *Canadian Journal of Plant Pathology*, 33(1), pp. 77-87. doi : 10.1080/07060661.2010.546957

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Yan, W., Frégeau-Reid, J.A., Pageau, D., Martin, R.A., Mitchell Fetch, J.W., Etienne, M., Rowsell, J., Scott, P., Price, M., De Haan, B., Cumiskey, A., Lajeunesse, J., Durand, J., and Sparry, E. (2010). "Identifying essential test locations for oat breeding in eastern Canada.", *Crop Science*, 50(2), pp. 504-515. doi : 10.2135/cropsci2009.03.0133

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Other Science Related Publications:

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Yan, W., Frégeau-Reid, J.A., Mitchell Fetch, J.W., Pageau, D., Martin, R.A., Rowsell, J., Beattie, A.D., and Cummiskey, A. (2012). "Breeding for an "ideal" Milling Oat: Challenges and Strategies.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012.

Gnanesh, B.N., McCartney, C.A., Mitchell Fetch, J.W., Menzies, J.G., Beattie, A.D., and Eckstein, P.E. (2012). "Validation and deployment of breeder-friendly markers for oat crown rust resistance gene *Pc91*.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

Gardner, K.M., Wight, C.P., Mitchell Fetch, J.W., Yan, W., Ames, N.P., Rossnagel, B.G., Herrmann, M., Molnar, S.J., Frégeau-Reid, J.A., Miller, S.S., Fetch Jr., T.G., Chong, J., Martin, R.A., Tekauz, A., Haber, S.M., Savard, M.E., and Tinker, N.A. (2012). "Prospects of whole genome selection in oat using high throughput genetic markers.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

Gnanesh, B.N., McCartney, C.A., Mitchell Fetch, J.W., Menzies, J.G., Beattie, A.D., and Eckstein, P.E. (2012). "Development and application of KASPar markers for marker-assisted selection of the *Pc91* oat crown rust resistance gene.", Canadian Phytopathological Society (CPS) 2012 Annual Meeting, Marriott Gateway On The Falls, Niagara Falls, ON, Canada, June 24-27, 2012, O-30. (Presentation)

2011

Beattie, A.D., Zhang, X.M., Yajima, W., Dokken-Bouchard, F.L., Tekauz, A., Mitchell Fetch, J.W., Martin, R.A., Yan, W., Scoles, G.J., and Rossnagel, B.G. (2011). "Real-time quantitative PCR in oat FHB resistance breeding.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 67.

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2010

Gardner, K.M., Wight, C.P., Molnar, S.J., Yan, W., Mitchell Fetch, J.W., and Tinker, N.A. (2010). "Fine Scale Genetic And Association Mapping Of The Hulless Trait In Cultivated Oat, *Avena sativa*.", Plant & Animal Genome XVIII Conference, Town & Country Convention Center, San Diego, CA, USA, January 9-13, 2010, P336. (Poster)

2009

Tekauz, A. and Mitchell Fetch, J.W. (2009). "Testing the WCORT oat entries for reaction to Fusarium head blight.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

Tekauz, A., Mitchell Fetch, J.W., and Savard, M.E. (2009). "Evaluation of oat germplasm for resistance to Fusarium head blight.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009. (Poster)

2008

Mitchell Fetch, J.W. and Townley-Smith, T.F. (2008). "Skeletons in the Oat Closet; From Joannette to Jordan.", 8th International Oat Conference (IOC): Healthy Foods, Healthy Lives, Minneapolis Radisson Hotel, Minneapolis, MN, USA, June 28-July 2, 2008. (Poster)

Mitchell Fetch, J.W., Tekauz, A., Rossnagel, B.G., and Savard, M.E. (2008). "Fusarium Head Blight of Oat: Identifying Resistant Oat Breeding Lines at AAFC-CRC.", 8th International Oat Conference (IOC): Healthy Foods, Healthy Lives, Minneapolis Radisson Hotel, Minneapolis, MN, USA, June 28-July 2, 2008. (Poster)

Frégeau-Reid, J.A., Yan, W., Mitchell Fetch, J.W., Pageau, D., Martin, R.A., Lajeunesse, J., Sibbitt, D., De Haan, B., Cummiskey, A., Rowsell, J., Scott, P., Etienne, M., Sparry, E., Durand, J., and Tétreault, C. (2008). "Number of Locations and Replications for Determining Oat Yield and Quality Traits in Canada.", 8th International Oat Conference (IOC): Healthy Foods, Healthy Lives, Minneapolis Radisson Hotel, Minneapolis, MN, USA, June 28-July 2, 2008, Poster IV-4. (Poster)

Mitchell Fetch, J.W. (2008). "Prairie Oat Breeding Consortium.", 1 page. (Factsheet)

2007

Mitchell Fetch, J.W. (2007). "Breeding Milling Oat for the Rust Area of Western Canada.", American Oat Workers Conference 2006, Fargo, ND, USA, July 23-26, 2006.

Mitchell Fetch, J.W., Fetch Jr., T.G., and Gold Steinberg, J. (2007). "Inheritance of stem rust resistance in 'Ronald' and 'AC Gwen' oat.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 138, P1-38. (Abstract)

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Research Publications:

2013

Gao, X., Tenuta, M., Nelson, A.G., Sparling, B., Tomasiewicz, D.J., Mohr, R.M., and Bizimungu, B. (2013). "Effect of nitrogen fertilizer rate on nitrous oxide emission from irrigated potato on a clay loam soil in Manitoba, Canada.", *Canadian Journal of Soil Science*, 93(1), pp. 1-11. doi : 10.4141/cjss2012-057

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Research Publications:

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Research Publications:

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Research Publications:

2013

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Morrison, M.J. (2013). "Abiotic stress adaptation, agronomy and physiology in northern areas at the Challenges in crop production for Northern Agriculture Symposium.", Joint Canadian Society of Agronomy/American Society of Agronomy meetings, Tampa, Florida, USA, November 3-6, 2013. (Presentation)

2012

Morrison, M.J., McAndrew, D., and Cober, E.R. (2012). "Climate and photoperiod influence soybean cultivar adaptation in Manitoba and Ontario.", Plant Canada 2012 (joint meeting of the Canadian Society of Agronomy (CSA), Canadian Society for Horticultural Science (CSHS), Certified Crop Advisors (CCA), North American Fruit Explorers (NAFEX)): Adapting Crops to Change, University of Saskatchewan, Saskatoon, SK, Canada, July 16-19, 2012, D1.1. (Presentation)

Morrison, M.J., Cober, E.R., and Frégeau-Reid, J.A. (2012). "There Are Genotypic Differences for Gamma Aminobutyric Acid (GABA) Concentration in Short-Season Soybean.", 2012 ASA, CSSA, and SSSA International Annual Meeting, Cincinnati, OH, USA, October 21-24, 2012, Abstract 376-5. (Presentation)

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Ma, B.-L., Wu, T., and Morrison, M.J. (2008). "Grain Nitrogen removal balance factor of corn grown in a long-term experiment with soil amendment.", 2008 Joint Annual Meeting of the GSA, SSSA, ASA, CSSA, GCAGS, HGS: Celebrating the International Year of Planet Earth, George R. Brown Convention Center, Houston, TX, USA, October 5-9, 2008. (Abstract)

Holzapfel, C.B., Lafond, G.P., Brandt, S.A., Bullock, P.R., Irvine, R.B., James, D.C., Morrison, M.J., and May, W.E. (2008). "Getting the right amount in the right place.", 2008 Annual Indian Head Crop Management Field Day, Indian Head, SK, Canada, July 22, 2008, pp. 46-58.

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2007

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Lafond, G.P., Holzapfel, C.B., Irvine, R.B., Morrison, M.J., Selles, F., and May, W.E. (2007). "Refining nitrogen management in spring wheat using optical sensors and a no-till production system.", 2nd North American Wheat Workers, Saskatoon, SK, Canada, March 12-14, 2007.

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Holzapfel, C.B., Lafond, G.P., Brandt, S.A., Irvine, R.B., James, D.C., Morrison, M.J., Bullock, P., and May, W.E. (2007). "Managing N fertilizer in canola using optical sensors.", 2007 Annual Indian Head Crop Management Field Day, Indian Head, SK, Canada, July 18, 2007, pp. 56-67.

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Research Publications:

2014

Moulin, A.P., Glenn, A.J., Tenuta, M., Lobb, D.A., Dunmola, A.S., and Yapa, P. (2014). "Alternative transformations of nitrous oxide soil flux data to normal distributions.", *Canadian Journal of Soil Science*, 94(1), pp. 105-108. doi : 10.4141/CJSS2013-008

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2014

Glenn, A.J. and Moulin, A.P. (2014). "Nitrous oxide flux from a clay loam under mature no-till and variable rate N fertilizer management in western Manitoba.", 57th Annual Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 6-7, 2014. (Poster)

2013

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Moulin, A.P. and Tremblay, N. (2007). "Effect of management zone and nitrogen fertilizer rates on potato yield, preliminary results.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 166, P3-40. (Poster)

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Research Publications:

2010

Tsopmo, A. and Muir, A.D. (2010). "Chemical profiling of lentil (*Lens culinaris* Medik.) cultivars and isolation of compounds.", *Journal of Agricultural and Food Chemistry*, 58(15), pp. 8715-8721. doi : 10.1021/jf101412y

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Gruber, M.Y., Skadhauge, B., Yu, M., Muir, A.D., and Richards, K.W. (2008). "Variation in morphology, plant habit, proanthocyanidins, and flavonoids within a Lotus germplasm collection.", *Canadian Journal of Plant Science*, 88(1), pp. 121-132. doi : 10.4141/P06-158

2007

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Research Publications:

2012

Mupondwa, E.K., Li, X., Tabil, L.G., Phani, A., Sokhansanj, S., Stumborg, M., Gruber, M.Y., and Laberge, S. (2012). "Technoeconomic analysis of wheat straw densification in the Canadian Prairie Province of Manitoba.", *Bioresource Technology*, 110, pp. 355-363. doi : 10.1016/j.biortech.2012.01.100

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2010

Panigrahi, S., Li, X., Tabil, L.G., Barghout, K., Kushwaha, R.L., and Mupondwa, E.K. (2010). "Development of Flax Fibre Reinforced Biocomposites for Potential Application for Automotive Industries.", *SAE International Journal of Commercial Vehicles*, 2(2), pp. 107-114. doi : 10.4271/2009-01-2867

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2011

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2010

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Sawatzky, C., Johnson, G., and Mupondwa, E.K. (2010). "Pretreatment and co-products framework.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #83, pp. 50. (Poster)

Arachchilage, K., Panigrahi, S., and Mupondwa, E.K. (2010). "Life cycle analysis of Alfalfa for ethanol production.", Cellulosic Biofuel Network (CBN) 2nd Annual General Meeting, Ottawa Marriott Hotel, Ottawa, ON, Canada, March 11-12, 2010, Poster #81, pp. 50. (Poster)

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Mupondwa, E.K. (2008). *Bioeconomic analysis of the Production and Delivery of Recombinant Therapeutic Proteins for Cancer Therapy. Technical Study for AAFC London Research Centre Biotechnology Program. (Report)*

2007

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Research Publications:

2014

Pushpa, D., Kalenahalli, N., Gunnaiah, Y., Kushalappa, A.C., and Murphy, A.M. (2014). "Identification of Late Blight Resistance-Related Metabolites and Genes in Potato through Nontargeted Metabolomics.", *Plant Molecular Biology Reporter*, 32(2), pp. 584-595. doi : 10.1007/s11105-013-0665-1

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Nie, X., Murphy, A.M., and Singh, M. (2014). "Characterization of Host Resistance Mechanisms against Potato Virus Y in Potato Cultivars/Breeding Clones.", Northeast Potato Technology Forum 2014, Fredericton, NB, Canada, March 12-13, 2014.

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Murphy, A.M., Wilson, D.H., and Allaby, S. (2013). "Breeding for PVY Resistance an update from the Potato Research Centre.", CPS Maritime Meeting, Charlottetown, Canada, November 28-29, 2013. (Abstract)

Li, X.-Q., Zhang, J., Murphy, A.M., Liu, G.S., Donnelly, D.J., and Leclerc, Y. (2013). "Ploidy Effects on Potato Starch Granule Size.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

Tai, H.H., Goyer, C., and Murphy, A.M. (2013). "Potato *MYB* and *bHLH* transcription factors associated with anthocyanin intensity and common scab resistance.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013.

Tai, H.H., De Koeyer, D.L., Goyer, C., Sønderkær, M., Hedegaard, S., Nolan, L., Laguë, M., Murphy, A.M., and Nielsen, K.L. (2013). "Analysis of genetic variation in gene expression associated with *Verticillium dahliae* infection in potato.", 10th Solanaceae Conference, Beijing, China, October 13-17, 2013.

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Bizimungu, B., Hawkins, G., Murphy, A.M., and Mikitzel, L.J. (2012). "NIRS predictions of potato processing quality in breeding germplasm and cultivars.", 96th Annual Meeting of the Potato Association of America (PAA), Crowne Plaza Denver International Airport, Denver, CO, USA, August 12-16, 2012, Oral presentation.

Qi, W., Yang, X., Leonard, S., Archbold, T., Sullivan, A., Bizimungu, B., Murphy, A.M., Ma, D.Y., Duncan, A.M., and Htoo, J.K. (2012). "Responses of dietary ileal amino acid digestibility to consumption of different varieties of potatoes and conventional fibres in pigs fed a high-fat basal diet.", 12th International Symposium on Digestive Physiology in Pigs, Keystone, CO, USA, May 30-June 1, 2012. (Poster)

Tai, H.H., Goyer, C., De Koeyer, D.L., Murphy, A.M., De Jong, H., and Platt, H.W. (2012). "Comparative Transcriptome Profiling of Foliage from Two Diploid Potato Clones with Variation in Responses to *Verticillium* Infection.", 96th Annual Meeting of the Potato Association of America (PAA), Crowne Plaza Denver International Airport, Denver, CO, USA, August 12-16, 2012, Oral presentation, Abst. 90.

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Wang-Pruski, G., Babin, S., Murphy, P., Kong, F., Wu, Y., Douglass, K., Murphy, A.M., De Koeyer, D.L., and Pinto, D.M. (2010). "Identification of genes and gene markers by genomics, genome mapping and comparative proteomics and their relationship to potato tuber qualities.", 28th International Horticultural Congress (IHC2010): Postharvest technology in global market, Lisboa Congress Centre, Lisbon, Portugal, August 22-27, 2010. (Abstract)

De Koeyer, D.L., Douglass, K., Chen, H., Mason, N., and Murphy, A.M. (2010). "Marker-assisted selection in a Canadian potato breeding program.", XXIV Congreso de la Asociación Latinoamericana de la Papa (ALAP), Cusco, Peru, May 23-28, 2010, pp. 147-148. (Abstract)

Murphy, A.M., Chen, H., De Koeyer, D.L., Laguë, M., and Tai, H.H. (2010). "Breeding studies of pigmented tuber flesh in potatoes.", EUCARPIA-EAPR Joint Meeting: Potato Breeding after Completion of the DNA Sequence of the Potato Genome, Wageningen, The Netherlands, June 27-30, 2010. (Abstract)

De Koeyer, D.L., Douglass, K., Murphy, A.M., Wu, Y., and Wang-Pruski, G. (2010). "Mapping and validation of QTL for after-cooking darkening.", EUCARPIA-EAPR Joint Meeting: Potato Breeding after Completion of the DNA Sequence of the Potato Genome, Wageningen, The Netherlands, June 27-30, 2010, pp. 48. (Abstract)

Tai, H.H., De Koeyer, D.L., Goyer, C., and Murphy, A.M. (2010). "Gene expression profiling of diploid potato clones with variation in maturation timing.", 18th Annual Northeast Potato Technology Forum, Charlottetown, PEI, Canada, March 11-12, 2010. (Abstract)

Wu, Y., De Koeyer, D.L., Douglass, K., Murphy, A.M., and Wang-Pruski, G. (2010). "Verification of single nucleotide polymorphism markers associated with after-cooking darkening in diploid and tetraploid potatoes using high-resolution DNA melting.", 18th Annual Northeast Potato Technology Forum, Charlottetown, PEI, Canada, March 11-12, 2010. (Abstract)

Zhang, J-Z., Ji, X-H., Kirby, C.W., Chapman, B. P., Murphy, A.M., and Tai, H.H. (2010). "NMR-based metabolomic profiling of coloured potato varieties.", 7th Annual Natural Health Products Research Conference: The Next Wave, Halifax, NS, Canada, May 23-26, 2010.

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Murphy, A.M. (2009). "Dr. Richard Tarn: A Retrospective.", *Potato Gene Resources Newsletter*, 15, pp. 8-10. (Newsletter)

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Yuan, J.Z., Haroon, M., Lightfoot, D.A., Meksem, K., Pelletier, Y., Murphy, A.M., Liu, Q., Bizimungu, B., and Li, X.-Q. (2009). "Analysis of allelic expression dynamics using a high-resolution DNA melting approach.", Plant & Animal Genome XVII Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2009, P07b, Poster #700. (Poster)

Tai, H.H., De Koeyer, D.L., Goyer, C., and Murphy, A.M. (2009). "Comparative transcriptome profiling of diploid potato clones with variation in maturation timing.", 6th Solanaceae Genome Workshop (SOL 2009), Hotel Le Meridien, New Delhi, India, November 8-13, 2009. (Abstract)

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Chapman, B., Johnston, J., Kulka, M., Zhang, J.H., Zidichouski, J., Wang, Y., Williams, A., Bernard, K., Kerr, R., Saleh, T., Smith, J., Robertson, G., Murphy, A.M., Tai, H.H., De Koeyer, D.L., and Nie, X. (2009). "Bioactives, Functional Food and Nutraceuticals - The science behind developing a BioPotato.", BioPotato Network Meeting, Crowne Plaza Fredericton Lord Beaverbrook Hotel, Fredericton, NB, Canada, November 2, 2009. (Abstract)

Murphy, A.M., De Koeyer, D.L., Wood, S., Douglass, K., Dalton, T., Wilson, D., and Bélair, G. (2009). "Marker-assisted selection for potato lines with golden nematode resistance using a high-resolution DNA melting assay.", 65th Annual Meeting of the Acadian Entomological Society, Crowne Plaza Fredericton Lord Beaverbrook Hotel, Fredericton, NB, Canada, June 19-21, 2005, pp. 43. (Abstract)

De Koeyer, D.L., Pelletier, Y., Murphy, A.M., Embleton, J., Clark, C., and Allaby, S. (2009). "Breeding for resistance to Colorado potato beetle using a wild potato species.", 17th Annual Northeast Potato Technology Forum, Bangor, ME, USA, March 10-11, 2009, pp. 30. (Abstract)

Tai, H.H., De Koeyer, D.L., Goyer, C., and Murphy, A.M. (2009). "Comparative transcriptome profiling of diploid potato clones with variation in maturation timing.", 65th Annual Meeting of the Acadian Entomological Society, Crowne Plaza Fredericton Lord Beaverbrook Hotel, Fredericton, NB, Canada, June 19-21, 2005. (Abstract)

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De Koeyer, D.L., Pelletier, Y., Murphy, A.M., Douglass, K., Clark, C., and Allaby, S. (2008). "Breeding for Colorado potato beetle resistance.", New Brunswick Potato Conference and Trade show 2008, Grand Falls, NB, Canada, February 7-8, 2008, pp. 33.

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De Koeyer, D.L., Goyer, C., Murphy, A.M., Tarn, T.R., Douglass, K., Nolan, L., Whitney, S., Song, Y., Griffiths, R., and Li, X.-Q. (2008). "High resolution DNA melting analysis for polymorphism discovery and genotyping in potato.", 9th Annual Meeting of the Canadian Crop Genomics Initiative (CCGI), Penticton, BC, Canada, September 12-13, 2007. (Abstract)

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De Koeyer, D.L., Goyer, C., Li, X.-Q., Murphy, A.M., Tarn, T.R., Douglass, K., Nolan, L., Whitney, S., Griffiths, R., and Argall, J. (2007). "Molecular breeding for potato improvement.", 15th Annual Northeast Potato Technology Forum, Delta Prince Edward, Charlottetown, PEI, Canada, March 14-15, 2007, pp. 7.

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Research Publications:

2014

Jones, T.H., Nattress, F.M., Dilts, B.D., Olsen, D., and Muehlhauser, V. (2014). "Numbers of coliforms, *Escherichia coli*, F-RNA coliphage, rotavirus, bovine enteric calicivirus and presence of non-O157 STEC on commercial vacuum packaged beef.", *Food Microbiology*, 42, pp. 225-231. doi : 10.1016/j.fm.2014.04.001

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2008

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Research Publications:

2013

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Navabi, A., Rupert, T., Park, S.J., Yu, K., Smith, T.H., and Pauls, K.P. (2013). "Apex common bean.", *Canadian Journal of Plant Science*, 93(1), pp. 131-135. doi : doi:10.4141/CJPS2012-139

Kamran, A., Iqbal, M., Navabi, A., Randhawa, H.S., Pozniak, C.J., and Spaner, D.M. (2013). "Earliness per se QTLs and their interaction with the photoperiod insensitive allele *Ppd-D1a* in the Cutler 3 AC Barrie spring wheat population.", *Theoretical and Applied Genetics (TAG)*. doi : 10.1007/s00122-013-2110-0

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Goyal, A., Beres, B.L., Randhawa, H.S., Navabi, A., Salmon, D.F., and Eudes, F. (2011). "Yield stability analysis of broadly adaptive triticale germplasm in southern and central Alberta, Canada for industrial end-use suitability.", *Canadian Journal of Plant Science*, 91(1), pp. 125-135. doi : 10.4141/CJPS10063

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Farid, M., Earl, H.J., Rajcan, I., Pauls, K.P., and Navabi, A. (2013). "Symbiotic nitrogen fixation related traits in dry bean.", Environmental Sustainability 2010 Research Forum, Best Western Conference Centre, Guelph, ON, Canada, June 16, 2010. (Poster)

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Zhang, B.L., Yu, K., and Navabi, A. (2012). "Breeder-friendly Single Nucleotide Polymorphism (SNP) markers for common bean (*Phaseolous vulgaris* L.)", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)

Balasubramanian, P.M., Chatterton, S., Hou, A., Conner, R.L., McLaren, D.L., Navabi, A., Pauls, K.P., and Bett, K.E. (2012). "Dry bean improvement on the prairies for high yield, disease resistance and seed quality.", Pulse Science Cluster Scientific Meeting 2012, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 5-6, 2012.

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- Asif, M., Navabi, A., Randhawa, H.S., Pozniak, C.J., and Spaner, D.M. (2012). "QTL mapping in the Attila x CDC Go Spring Wheat Population.", The Annual General Meeting of Canadian Triticum Advancement through Genomics (CTAG), Saskatoon, SK, Canada, November 23-24, 2012.
- Kamran, A., Iqbal, M., Navabi, A., Randhawa, H.S., Pozniak, C.J., and Spaner, D.M. (2012). "Mapping earliness per se QTL and exploring their interaction with the photoperiod insensitive gene Ppd-D1a in the Cutler x Barrie spring wheat population.", The Annual General Meeting of Canadian Triticum Advancement through Genomics (CTAG), Saskatoon, SK, Canada, November 23-24, 2012.
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- Welacky, T.W. and Navabi, A. (2012). "Impact of Soybean Cyst Nematodes on Pulse Crops in Canada.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)
- Smith, T.H., Rupert, T., Burt, A.J., and Navabi, A. (2012). "Nitrogen use efficiency of a diverse collection dry bean genotypes selected from different market classes in Ontario.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)
- Navabi, A., Smith, T.H., and Pauls, K.P. (2012). Bean Research report to the Ontario White Bean Marketing Board and the Ontario Coloured Bean Producers. (Report)
- Diaz-Castro, E., Pauls, K.P., Navabi, A., and Rajcan, I. (2012). "Molecular characterization of common bacterial blight resistance in black common bean.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)
- Navabi, A. (2012). "Public bean breeding in Ontario: research update.", Ontario Pulse Committee Research Day Presentations, Exeter, ON, Canada, March 23, 2012. (Presentation)
- Navabi, A., Pauls, K.P., Yu, K., Tsao, R., Woodrow, L., and Poysa, V. (2012). "A MultiDisciplinary Approach Towards Developing Bean Varieties for Sustainable Dry Bean Production in Ontario.", Pulse Science Cluster Scientific Meeting 2011, Radisson Hotel, Saskatoon, SK, Canada, November 17-18, 2011.
- Farid, M., Xie, W., Pauls, K.P., Bett, K.E., and Navabi, A. (2012). "Quantitative trait loci analysis of in common bean.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Presentation)
- Burt, A.J., Khanal, R., and Navabi, A. (2012). "Investigating Genotype by Environment (GxE) Interactions in Common Bean in Ontario.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)
- Xie, W., McClymont, S., Stonehouse, R.G., Khanal, R., Yu, K., Pauls, K.P., and Navabi, A. (2012). "Differential expression of resistance QTL in the interactions between common bean and isolates of common bacterial blight pathogens.", 15th International Congress on Molecular Plant-Microbe Interactions (MPMI), Kyoto International Conference Center, Kyoto, Japan, July 29-August 2, 2012.
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Shi, C., Yu, K., Perry, G.E., Navabi, A., Pauls, K.P., Miklas, P.N., and Fourie, D. (2011). "Candidate gene markers associated with common bacterial blight resistance in common bean.", Biennial Meeting of the Bean Improvement Cooperative and North American Pulse Improvement Association (BIC/NAPIA 2011), Verdanza Hotel, San Juan, Puerto Rico, October 30-November 2, 2011.

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Farid, M., Pauls, K.P., and Navabi, A. (2011). "A study of N₂ fixation ability of different common bean genotypes in Ontario.", Plant Canada 2011, Saint Mary's University, Halifax, NS, Canada, July 17-21, 2011. (Poster)

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Navabi, A., Khanal, S., Shi, C., Xie, W., and Pauls, K.P. (2011). "Inheritance and quantitative trait loci analysis of folate content in dry beans (*Phaseolus vulgaris* L.).", Biennial Meeting of the Bean Improvement Cooperative and North American Pulse Improvement Association (BIC/NAPIA 2011), Verdanza Hotel, San Juan, Puerto Rico, October 30-November 2, 2011.

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Navabi, A., Balasubramanian, P.M., and Pauls, K.P. (2009). "Genetic diversity in Canadian contemporary common bean: A pedigree analysis.", XXth Biennial Meeting of the Bean Improvement Cooperative, Hilton Garden Inn, Fort Collins, CO, USA, October 25-28, 2009, O-31. (Presentation)

Durham, K.M., Lee, E.A., Yu, K., Pauls, K.P., and Navabi, A. (2009). "Identification of candidate genes associated with CBB resistance in common bean using cDNA-AFLP.", XXth Biennial Meeting of the Bean Improvement Cooperative, Hilton Garden Inn, Fort Collins, CO, USA, October 25-28, 2009, P-11. (Poster)

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Navabi, A., Pauls, K.P., and Balasubramanian, P.M. (2009). "An historical study of genetic diversity in Canadian common bean gene-pool.", Joint Annual Meeting of the CSA-CSSS-CSAFM: Sciences for Sustainability: Soils, Agronomy, and Atmosphere, University of Guelph, Guelph, ON, Canada, August 5-7, 2009.

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Falk, D.E., Mason, H.E., Navabi, A., and Spaner, D.M. (2008). "Breeding and evaluating cereals for organic production.", 28th Annual Organic Agriculture Conference, University of Guelph, Guelph, ON, Canada, January 22-25, 2009.

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Research Publications:

2014

Neilsen, G.H., Forge, T.A., Angers, D.A., Neilsen, D., and Hogue, E.J. (2014). "Suitable orchard floor management strategies in organic apple orchards that augment soil organic matter and maintain tree performance.", *Plant and Soil*. doi : 10.1007/s11104-014-2034-8

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Pellerin, B.P., Buszard, D., Iron, D., Embree, C.G., Marini, R.P., Nichols, D.S., Neilsen, G.H., and Neilsen, D. (2011). "A Theory of Blossom Thinning to Consider Maximum Annual Flower Bud Numbers on Biennial Apple Trees.", *HortScience*, 46(1), pp. 40-42.

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Research Publications:

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Research Publications:

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Research Publications:

2013

Nixon, J.H. (2013). "On Multiple Hypothesis Testing Maximizing the Average Power.", *International Journal of Statistics and Probability*, 2(2), pp. 112-135. doi : 10.5539/ijsp.v2n2p112

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Research Publications:

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Kabaluk, J.T., Janmaat, A., Sheedy, C., Goettel, M.S., and Noronha, C. (2013). "Agriotes spp. Wireworms and Click Beetles.", in Mason, P.G. and Gillespie, D.R. (eds.) *Biological Control Programmes in Canada 2001-2012*, CABI Publishing.

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Research Publications:

2013

Simard, M.-J., Darbyshire, S.J., and Nurse, R.E. (2013). "Comparative seed predation of woolly cupgrass (*Eriochloa villosa*) and yellow foxtail (*Setaria pumila*) along a field border in Canada.", *Weed Biology and Management*. doi : 10.1111/wbm.12018

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2011

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Thompson, J.A., Henry, H.A.L., and Nurse, R.E. (2011). "The influence of glyphosate treatment on the growth and fitness of glyphosate-resistant and -susceptible giant ragweed (*Ambrosia trifida* L.) biotypes.", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 21-24, 2011, pp. 26. (Abstract)

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Research Publications:

2013

N'Dayegamiye, A., Nyiraneza, J., Giroux, M., Grenier, M., and Drapeau, A. (2013). "Manure and Paper Mill Sludge Application Effects on Potato Yield, Nitrogen Efficiency and Disease Incidence.", *Agronomy*, 3(1), pp. 43-58. doi : 10.3390/agronomy3010043

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N'Dayegamiye, A., Nyiraneza, J., Giroux, M., Grenier, M., and Drapeau, A. (2013). "Manure and Paper Mill Sludge Application Effects on Potato Yield, Nitrogen Efficiency and Disease Incidence.", 97th Annual Meeting of the Potato Association of America (PAA), Québec City, QC, Canada, July 28-August 2, 2013, #111.

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Bélanger, G., Ziadi, N., Sinaj, S., Virkajärvi, P., Jouany, C., Lajeunesse, J., and Nyiraneza, J. (2012). "Critical P concentration of timothy and multispecies swards.", 24th General Meeting of the European Grassland Federation, Lublin, Poland, June 3-7, 2012. (Poster)

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Research Publications:

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Research Publications:

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Cerretti, P., Lo Giudice, G., and O'Hara, J.E. (2014). "A new *Loewia* Egger (Diptera: Tachinidae) from Turkey, with taxonomic and nomenclatural remarks on congeners.", *Zootaxa*, 3754(4), pp. 450-460. doi : 10.11646/zootaxa.3754.4.6

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Research Publications:

2014

Olivier, C.Y., Elliott, R.H., Man, L., and Nordin, D. (2014). "Development of a rating scale for Aster yellow in canola.", *Canadian Plant Disease Survey*, 94, pp. 162-176.

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Olivier, C.Y., Vincent, C., Saguez, J., Galka, B., Weintraub, P.G., and Maixner, M. (2012). "Leafhoppers and Planthoppers: Their Bionomics, Pathogen Transmission and Management in Vineyards.", in Bostanian, N.J., Vincent, C., and Isaacs, R. (eds.) *Arthropod Management in Vineyards: Pests, Approaches, and Future Directions*, Springer Dordrecht, The Netherlands, Chapter 11, pp. 253-270.

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Saguez, J., Olivier, C.Y., Giordanengo, P., and Vincent, C. (2010). "Les interactions cicadelles-vignes passées à la loupe.", VII Conférence Internationale Francophone d'Entomologie (CIFE 2010), Louvain la Neuve, Belgium, July 5-10, 2010, pp. 163. (Poster)

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Galka, B. and Olivier, C.Y. (2008). "Detection and characterisation of phytoplasma within grape leaves and leafhopper populations in vineyards from BC, ON and QC.", Entomological Society of Canada 58th and Entomological Society of Ontario joint Annual Meeting, Crowne Plaza Hotel, Ottawa, ON, Canada, October 19-22, 2008, pp. 92.

Olivier, C.Y., Lowery, D.T., Stobbs, L.W., Vincent, C., Saguez, J., Galka, B., Bittner, L.A., and Whybourne, K.J. (2008). "Phytoplasma diseases in Canadian vineyards.", 1st International ENDURE Conference, La Grande Motte, France, October 12-15, 2008, O.46. (Abstract)

Olivier, C.Y. and Galka, B. (2008). "Aster yellow diseases in canola. Abstract O.47.", 1st International ENDURE Conference, La Grande Motte, France, October 12-15, 2008.

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Research Publications:

2014

Mori, B.A., Yoder, C., Otani, J.K., and Evenden, M.L. (2014). "Relationships among male *Coleophora deauratella* (Lepidoptera: Coleophoridae) pheromone-baited trap capture, larval abundance, damage and flight phenology.", *Agricultural and Forest Entomology*. doi : 10.1111/afe.12050

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Research Publications:

2013

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Other Science Related Publications:

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Wójcik, P., Ouellet, T., Dzwiniel, W., and Balcerzak, M. (2013). "Identification of biomarker genes for resistance to a pathogen by a novel method for meta-analysis of single-channel microarray datasets.", NGS & Bioinformatics Summit Europe, Berlin, Germany, October 7-8, 2013, Poster.

Ouellet, T., Balcerzak, M., Rocheleau, H.J., Wang, L., Wójcik, P., and Dzwiniel, W. (2013). "Comparison of fusarium head blight-resistant and -susceptible wheat using global expression profiling.", 7th International Triticeae Symposium, Wengdu, China, June 9-13, 2013, Talk, pp. 37.

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Ouellet, T., Balcerzak, M., Leung, W.W.Y., Hattori, J., Martin, T., and Gulden, S.M. (2012). "The mycotoxin, Deoxynivalenol, induces genes that increase susceptibility to fusarium head blight in wheat.", 10th International Plant Molecular Biology (IPMB) Congress, Jeju, South Korea, October 21-26, 2012. (Poster)

Hattori, J., Chao, S., Ouellet, T., Jellen, E.N., Jackson, E.W., Oliver, R.E., Lazo, G.R., and Tinker, N.A. (2012). "Inter-genome distances in hexaploid oat and wheat estimated from single copy candidate genes.", 9th International Oat Conference: Harvest for Food and Health, Beijing, China, June 20-23, 2012. (Poster)

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Harris, L.J., Balcerzak, M., Schneiderman, D., Johnson, A., and Ouellet, T. (2011). "Transcriptome profiles of *F. graminearum* during infection of wheat, barley, and maize.", 26th Fungal Genetics Conference (26thFCG), Asilomar, CA, USA, March 15-20, 2011, Poster.

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DesRoches, C., Balcerzak, M., Blackwell, B.A., Johnston, A., Harris, L.J., and Ouellet, T. (2010). "Investigating the Pathways and Genes Responsible for the Production of Indole-3-Acetic Acid by *Fusarium Graminearum*.", 11th European Fusarium Seminar: Fusarium Mycotoxins, Taxonomy, Pathogenicity and Host Resistance, Plant Breeding and Acclimatization Institute (IHAR), Radzików, Poland, September 20-23, 2010, Poster #51. (Poster)

Gaudet, D.A., Wang, Y., Frick, M., Penniket, C., Puchalski, B., Ouellet, T., Singh, J., Robert, L.S., and Laroche, A. (2010). "Cold-induced snow mould resistance in winter wheat.", ESA-PPSA-WF 2010, Lethbridge, AB, Canada, October 12-15, 2010, Talk, pp. 20.

Balcerzak, M., Schneiderman, D., Johnson, A., Harris, L.J., and Ouellet, T. (2010). "Transcriptome Analysis Of *Fusarium Graminearum* During Infection of Three Monocot Hosts.", 11th European Fusarium Seminar: Fusarium Mycotoxins, Taxonomy, Pathogenicity and Host Resistance, Plant Breeding and Acclimatization Institute (IHAR), Radzików, Poland, September 20-23, 2010, Poster #1. (Poster)

Foroud, N.A., Ellis, B.E., Ouellet, T., Friedt, J., Oosterveen, B., Jordan, M.C., Laroche, A., and Eudes, F. (2010). "Investigating the molecular mechanisms of fusarium head blight resistance in wheat.", 31st Annual Meeting of the Plant Pathology Society of Alberta, Lethbridge, AB, Canada, October 12-14, 2010. (Presentation)

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Rocheleau, H.J., Zheng, W., Gulden, S.M., Xu, R., Wang, L., and Ouellet, T. (2009). "Comparative gene expression profiling of major plant hormone pathways during infection by *Fusarium graminearum*.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 103. (Poster)

Gulden, S.M., Watson, E.M., Frégeau-Reid, J.A., Miller, S.S., Fedak, G., Ouellet, T. (2009). "Characterization of a novel resistance to *Fusarium graminearum* identified in the grass *Thinopyrum elongatum*.", 14th International Congress on Molecular Plant-Microbe Interactions, Centre des congrès de Québec, Québec City, QC, Canada, July 19-23, 2009. (Poster)

Ouellet, T., Hattori, J., Gulden, S.M., Balcerzak, M., Rocheleau, H.J., Wang, L., Singh, J., Foroud, N.A., Fedak, G., Pandeya, R.S., Somers, D.J., Eudes, F., and Tinker, N.A. (2009). "Expression profiling of FHB resistant wheat: what we have learned from it so far.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 103. (Workshop)

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Qi, P.-F., Wei, Y.-M., Ouellet, T., and Zheng, Y.-L. (2009). "Salicylic acid inhibits the germination and growth of *Fusarium graminearum* and improves the resistance of wheat to Fusarium Head Blight.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 102. (Poster)

Balcerzak, M., Gulden, S.M., and Ouellet, T. (2009). "Comparative analysis of the wheat spikelet transcriptome after inoculation with DON+ and DONstrains of *Fusarium graminearum*.", 14th International Congress on Molecular Plant-Microbe Interactions, Centre des congrès de Québec, Québec City, QC, Canada, July 19-23, 2009. (Poster)

Rocheleau, H.J., Zheng, W., Gulden, S.M., Xu, R., Wang, L., and Ouellet, T. (2009). "Validation of expression profiling patterns for plant hormone signalling pathways in wheat infected by *Fusarium graminearum*.", 14th International Congress on Molecular Plant-Microbe Interactions, Centre des congrès de Québec, Québec City, QC, Canada, July 19-23, 2009. (Poster)

Balcerzak, M., Gulden, S.M., and Ouellet, T. (2009). "Expression profiling of trichothecene induced genes in wheat.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 89. (Poster)

DesRoches, C., Balcerzak, M., Blackwell, B.A., and Ouellet, T. (2009). "Investigating the role of the production of auxins by *Fusarium graminearum*.", 6th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Marriott Ottawa, Ottawa, ON, Canada, November 1-4, 2009, pp. 91. (Poster)

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Harris, L.J., Saparno, A., Alexander, N.J., Blackwell, B.A., McCormick, S.P., Schneiderman, D., Desjardins, A.E., Tinker, N.A., Hattori, J., Seifert, K.A., and Ouellet, T. (2007). "A novel gene cluster in *Fusarium graminearum* expressed under mycotoxin induction conditions.", 24th Fungal Genetics Conference, Asilomar Conference Center, Pacific Grove, CA, USA, March 20-25, 2007. (Poster)

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Miller, S.S., Ouellet, T., Fedak, G., Watson, E.M., Lazebnik, J., and Wang, J.-R. (2007). "Characterization of an alien source of resistance to FHB transferred to Chinese Spring wheat.", 5th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2007, pp. 125. (Workshop)

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Research Publications:

2010

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Research Publications:

2012

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Yan, W., Frégeau-Reid, J.A., Rioux, S., Tamburic-Ilincic, L., Martin, R.A., Pageau, D., Lajeunesse, J., De Haan, B., Savard, M.E., and Xue, A.G. (2008). "Current Status of Oat FHB in Eastern Canada.", 8th International Oat Conference (IOC): Healthy Foods, Healthy Lives, Minneapolis Radisson Hotel, Minneapolis, MN, USA, June 28-July 2, 2008. (Poster)

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Research Publications:

2014

Farmer, C., Lapointe, J., and Palin, M.-F. (2014). "Effects of the plant extract silymarin on prolactin concentrations mammary gland development, and oxidative stress in gestating gilts.", *Journal of Animal Science*.

Farmer, C., Palin, M.-F., and Martel-Kennes, Y. (2014). "Impact of diet deprivation and subsequent over-allowance during gestation on mammary gland development and lactation performance.", *Journal of Animal Science*, 92, pp. 141-151. doi : 10.2527/jas.2013-6558

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Cory, A.T., Price, C.A., Lefebvre, R., and Palin, M.-F. (2013). "Identification of single nucleotide polymorphisms in the bovine follicle-stimulating hormone receptor and effects of genotypes on superovulatory response traits.", *Animal Genetics*, 44(2), pp. 197-201. doi : 10.1111/j.1365-2052.2012.02380.x

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Farmer, C., Palin, M.-F., Theil, P.K., Sørensen, M.T., and Devillers, N. (2012). "Milk production in sows from a teat in second parity is influenced by whether it was suckled in first parity.", *Journal of Animal Science*, 90(11), pp. 3743-3751. doi : 10.2527/jas.2012-5127

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Lefèvre, P.L.C., Palin, M.-F., Beaudry, D., Dobias-Goff, M.V., Desmarais, J.A., Llerena V., E.M., and Murphy, B.D. (2011). "Uterine Signaling at the Emergence of the Embryo from Obligate Diapause.", *American Journal of Physiology: Endocrinology and Metabolism*, 300(5), pp. E800-E808. doi : 10.1152/ajpendo.00702.2010

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Other Science Related Publications:

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Palin, M.-F., Prado, R.M., Beaudry, D., and Petit, H.V. (2013). "Effects of feeding linola and flax supplements to dairy cows on the day 17 embryo transcriptome.", 7th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN), Quebec City Convention Centre, Quebec City, Canada, October 5-8, 2013.

Santos, G.T., Schogor, A.L.B., Palin, M.-F., Benchaar, C., and Petit, H.V. (2013). "Lipoperoxidation in body fluids of dairy cows fed flax meal.", 64th Ann. Meeting of the European Association for Animal Production (EAAP), Nantes, France, August 26-30, 2013, (Abstract), pp. 146.

Schogor, A.L.B., Palin, M.-F., Benchaar, C., Santos, G.T., and Petit, H.V. (2013). "Mammary gene expression in Holstein cows upon flax meal supplementation.", 64th Ann. Meeting of the European Association for Animal Production (EAAP), Nantes, France, August 26-30, 2013, (Abstract), pp. 144.

Petit, H.V., Schogor, A.L.B., Benchaar, C., Palin, M.-F., and Santos, G.T. (2013). "Enterolactone production and its correlation among body fluids in cows fed flax meal.", 64th Ann. Meeting of the European Association for Animal Production (EAAP), Nantes, France, August 26-30, 2013, Abstract, pp. 142 (Abstract).

Schogor, A.L.B., Petit, H.V., Benchaar, C., Palin, M.-F., and Santos, G.T.D. (2013). "Activity of antioxidant enzymes in dairy cows fed increasing levels of flax meal.", World Conference on Animal Production (11th WCAP), Beijing, China, October 15-20, 2013.

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Kuzinski, J., Will, K., Kalbe, C., Palin, M.-F., and Rehfeldt, C. (2013). "Adiponectin and leptin actions on DNA synthesis and cell death of porcine myoblasts are dependent on the cellular milieu and related to ERK 1/2 signalling.", The 15th European Congress of Endocrinology (ECE), Copenhagen, Denmark, April 27-May 1, 2013, Endocrine Abstracts Vol. 32, Abstract #P757.

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Lapointe, J., Roy, M., Audet, I., Beaudry, D., Palin, M.-F., Quesnel, H., Guay, F., and Matte, J.J. (2012). "Organic selenium and vitamin B6 synergize to up-regulate glutathione peroxidases (GPx) expression in dietary supplemented gilts.", Society for the Study of Reproduction 45th Annual Meeting and 18th Ovarian Workshop, Pennsylvania State University, State College, PA, USA, August 12-15, 2012, Abs. 469. (Abstract)

Petit, H.V., do Prado, R.N., Palin, M.-F., and Benchaar, C. (2012). "Milk production, milk composition and blood parameters of cows fed whole flaxseed or whole linola.", *Journal of Dairy Science (JDS)*, 95(Suppl. 2), pp. 611 (#W318). (Abstract)

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Roy, M., Audet, I., Palin, M.-F., Quesneville, H., Guay, F., and Matte, J.J. (2011). "Dietary sources of selenium in nulliparous sows: The importance of vitamin B6 status for some aspects of antioxidant status and ovulation during the peri-estrus period.", *Journal of Animal Science*, 89(E-Suppl. 1), pp. 508 (#W202). (Abstract)

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Lefèvre, P.L.C., Palin, M.-F., Dobias-Goff, M.V., Beaudry, D., and Murphy, B.D. (2010). "Uterine Signals in Embryonic Diapause.", 1st SKLRB Symposia on Frontiers in Periimplantation Biology, Beijing Friendship Hotel, Beijing, China, May 8-12, 2010.

Farmer, C., Palin, M.-F., Trott, J.F., and Hovey, R.C. (2010). "Greater milk yield is related to increased DNA and RNA content but not to mRNA abundance of selected genes in sow mammary tissue.", ADSA-PSA-AMPA-CSAS-ASAS 2010 Joint Annual Meeting, Denver, CO, USA, July 11-15, 2010, Published in: *J. Anim. Sci.*, 88(E-Suppl. 2), pp. 648, #W198.

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Talbot, G., Roy, C.S., Topp, E., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2009). "Anaerobic bacterial population dynamics during glucose and volatile fatty acid degradation.", 5th ASPD Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg, Denmark, May 24-27, 2009, Abstract No. 11024.

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Hallé, C., Petit, H.V., Beaudry, D., Vallée, M., Bissonnette, N., Murphy, B.D., and Palin, M.-F. (2009). "Un nouvel outil moléculaire pour l'identification des gènes impliqués dans la survie embryonnaire chez la vache laitière.", 33e Symposium sur le bovin laitier, Best Western Hôtel Universel, Drummondville, QC, Canada, October 29, 2009.

Lefèvre, P.L.C., Palin, M.-F., Dobias-Goff, M.V., Beaudry, D., and Murphy, B.D. (2009). "Polyamines are implicated in the emergence from embryonic diapause in minks.", 2e Symposium du Réseau Québécois en Reproduction (RQR), Delta Centre-Ville, Montréal, QC, Canada, November 17-18, 2009.

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Research Publications:

2014

Murmu, J., Wilton, M., Allard, G.C., Pandeya, R.S., Desveaux, D., Singh, J., and Subramaniam, R. (2014). "Arabidopsis GOLDEN2-LIKE (GLK) transcription factors activate jasmonic (JA)-dependent disease susceptibility to the biotrophic pathogen *Hyaloperonospora arabidopsidis*, as well as JA-independent plant immunity against the necrotrophic pathogen *Botrytis cinerea*.", *Molecular Plant Pathology*, 15(2), pp. 174-184. doi : 10.1111/mpp.12077

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2008

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Research Publications:

2014

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Research Publications:

2012

Papadopoulos, A.P., Yaganza, E.-S., Hao, X.M., Martynenko, A., Ramados, M., Saha, U.K., Ehret, D.L., Dorais, M., and Kholsa, S. (2012). "Effects of Oxygen Super-Saturated Nutrient Solutions on Greenhouse Tomato.", *Acta Horticulturae (ISHS)*, 952, pp. 713-720.

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Dorais, M., Ehret, D.L., and Papadopoulos, A.P. (2008). "Tomato (*Solanum lycopersicum*) health components: from the seed to the consumer.", *Phytochemistry Reviews*, 7(2), pp. 231-250. doi : 10.1007/s11101-007-9085-x

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Research Publications:

2014

Simili da Silva, M., Tremblay, G.F., Bélanger, G., Lajeunesse, J., Papadopoulos, Y.A., Fillmore, S.A.E., and Jobim, C.C. (2014). "Forage energy to protein ratio of several legume–grass complex mixtures.", *Animal Feed Science and Technology*, 188, pp. 17-27. doi : 10.1016/j.anifeeds.2013.11.006

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Research Publications:

2013

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Parkin, I.A.P. (2013). "Sequencing U's Triangle: Update and Insights From The B and C Genomes.", Plant & Animal Genome XXI Conference, Town & Country Convention Center, San Diego, CA, USA, January 12-16, 2013. (Presentation)

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Gossen, B.D., Peng, G., Deora, A.D., and McDonald, M.R. (2014). "Clubroot resistance: Expression, durability, and metabolic cost.", Invited seminar, Department of Plant Agriculture, University of Guelph, Guelph, ON, Canada, March 5, 2014. (Presentation)

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Gossen, B.D., Deora, A.D., Peng, G., and McDonald, M.R. (2013). "Environmental parameters that affect clubroot risk on the Canadian prairies.", International Clubroot Workshop, Edmonton, AB, Canada, June 2013, Oral presentations, pp. 8.

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Pernal, S.F. (2013). "Sixty years of field days in Beaverlodge.", 60th Beaverlodge Beekeepers' Field Day, Beaverlodge, AB, Canada, June 21, 2013. (Presentation)

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Research Publications:

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Islam, M.R., Alkher, H.A., Bezzahou, M., Godee, C., Adam, L.R., Kawchuk, L.M., Dobinson, K.F., Conn, K.L., Peters, R.D., Al-Mughrabi, K.I., Shinnars-Carnelley, T., and Daayf, F. (2013). "Diversity in population structure of late blight pathogen, *P.infestans* in Manitoba.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

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Kawchuk, L.M., Peters, R.D., Al-Mughrabi, K.I., Dobinson, K.F., Conn, K.L., and Daayf, F. (2013). "Population diversity and segregation analysis of genotype specific loci of the Irish Potato Famine pathogen.", 84rd Annual Meeting of the Canadian Phytopathological Society (CPS), Matrix Hotel, Edmonton, AB, Canada, June 16-19, 2013.

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Rodd, A.V., Nyiraneza, J., Henry, R., Peters, R.D., Grimmett, M.G., and Mills, A.A.S. (2013). "Compost from the sea for agricultural production. Compost council of Canada regional meeting.", Compost matters in Atlantic Canada, Westmorland-Albert Solid Waste Corporation, Moncton, NB, Canada, March 13-14, 2013.

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Research Publications:

2009

Pietrzak, L.N. and Miller, S.S. (2009). "FTIR Microspectroscopy in Agriculture : Application of Microspectroscopy to Agriculture Crops in situ.", *Imaging & Microscopy*, 11(4), pp. 49-52. doi : 10.1002/imic.200990090

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Research Publications:

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Research Publications:

2012

Hauschild, L., Lovatto, P.A., Pomar, J., and Pomar, C. (2012). "Development of sustainable precision farming systems for swine: Estimating real-time individual amino acid requirements in growing-finishing pigs.", *Journal of Animal Science*, 90(7), pp. 2255-2263. doi : 10.2527/jas.2011-4252

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Research Publications:

2010

John, R.P., Tyagi, R.D., Prévost, D., Brar, S.K., Pouleur, S., and Surampalli, R.Y. (2010). "Mycoparasitic *Trichoderma viride* as a biocontrol agent against *Fusarium oxysporum* f. sp. Adzuki and *Pythium arrhenomanes* and as a growth promoter of soybean.", *Crop Protection*, 29(12), pp. 1452-1459. doi : 10.1016/j.cropro.2010.08.004

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Research Publications:

2014

Zhang, C., Monk, J.M., Lu, J.T., Zarepoor, L., Wu, W., Liu, R., Pauls, K.P., Wood, G.A., Robinson, L., Tsao, R., and Power, K.A. (2014). "Cooked navy and black bean diets improve biomarkers of colon health and reduce inflammation during colitis.", *British Journal of Nutrition*, 111(9), pp. 1549-1563. doi : 10.1017/S0007114513004352

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Perry, G.E., Crosby, W.L., Yu, K., Navabi, A., Zou, X., Power, K.A., Marsolais, F., Xie, W., Weersink, A., Tsao, R., Cooper, D., and Pauls, K.P. (2012). "Sequencing the bean genome: Using comparative genomics to examine interspecific introgressions.", Canadian Society of Plant Biologists Meeting (CSPB 2012), University of Alberta Campus, Edmonton, AB, Canada, June 25-27, 2012. (Presentation)

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Research Publications:

2013

Comeau, C., Privé, J.-P., and Moreau, G. (2013). "Effects of reflective groundcovers on ground beetles (Coleoptera: Carabidae) in red raspberry (*Rubus idaeus*) cropping systems.", *Journal of Applied Entomology*, 137(4), pp. 264-274. doi : 10.1111/j.1439-0418.2012.01731.x

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2008

Privé, J.-P. and Russell, L. (2008). "Towards an automated wireless irrigation system for efficient water use in lowbush blueberry production.", 11th Annual Meeting of the Wild Blueberry Association of North America, Bar Harbor, ME, USA, August 2008.

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Research Publications:

2011

Gougeon, L.A.R., Henry, C.J., Ramdath, D.D., and Whiting, S.J. (2011). "Dietary analysis of randomly selected meals from the Child Hunger and Education Program School Nutrition Program in Saskatchewan, Canada, suggests that nutrient target levels are being provided.", *Nutrition Research*, 31(3), pp. 215-222. doi : 10.1016/j.nutres.2011.03.002

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Other Science Related Publications:

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Singh, S., Hilaire, D., and Ramdath, D.D. (2007). "Anthropometric and biochemical predictors of insulin resistance in a cross-sectional working class Trinidadian population.", *West Indian Medical Journal*, 56(Suppl. 1), pp. 25. (Abstract)

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Research Publications:

2013

Derksen, H., Rampitsch, C., and Daayf, F. (2013). "Signaling cross-talk in plant disease resistance.", *Plant Science*, 207, pp. 79-87. doi : 10.1016/j.plantsci.2013.03.004

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Rampitsch, C., Beimcik, E., Günel, A., Bakkeren, G., McCallum, B.D., and Fan, T. (2013). "Comparative proteomics of monoclonal-antibody enriched haustoria from three races of *Puccinia triticina*.", 27th American Genetics Society meeting on Fungal Genetics, Asilomar, CA, USA. (Poster)

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Bajracharya, P., McCartney, C., Rampitsch, C., Friesen, T.L., and Daayf, F. (2013). "Purification and characterization of *Stagonospora nodorum* toxins and mapping of toxin insensitivity.", Plant & Animal Genome XXI Conference, Town & Country Convention Center, San Diego, CA, USA, January 12-16, 2013. (Poster)

Rampitsch, C., Subramaniam, R., Joshi, M., and Fan, T. (2013). "Using redox-proteomics to identify targets of NADPH oxidase-generated reactive oxygen species in *Fusarium graminearum*.", 12th European Fusarium Seminar, Bordeaux, France, Oral presentation. (Abstract)

Bykova, N.V., Hu, J.-N., Rampitsch, C., Stebbing, J.A., and Fan, T. (2013). "Proteomic profiling of membrane-associated protein complexes in wheat aleurone tissue using Blue Native gels and label-free semi-quantitative LC-MS/MS approach.", 5th Canadian National Proteomics Network Symposium, Vancouver, BC, Canada. (Poster)

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Rampitsch, C., Gordon, J.I., and others (2013). "Identification of a novel MADS-box phosphorylation motif by phospho-peptide mapping using CID and ETD.", 26th CSMS conference, Lake Louise AB, Canada. (Poster)

Simõesa, M., Santos, C., Rampitsch, C., and Lima, N. (2013). "Proteomic analysis of *Aspergillus niger* type strain (MUM 03.01) after accelerated freeze-drying preservation.", 13th International Conference on Culture Collections, Beijing, China. (Poster)

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Rampitsch, C., Subramaniam, R., and Fan, T. (2010). "MAP Kinase Mgv1: A Potential Shared Control Point of Butenolide and Deoxynivalenol Biosynthesis in *Fusarium Graminearum*.", 11th European Fusarium Seminar: Fusarium Mycotoxins, Taxonomy, Pathogenicity and Host Resistance, Plant Breeding and Acclimatization Institute (IHAR), Radzików, Poland, September 20-23, 2010, OP1.

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Bykova, N.V., Hoehn, B., Rampitsch, C., Banks, T.W., Stebbing, J.A., Fan, T., and Knox, R.E. (2009). "Redox-sensitive proteome and antioxidant strategies in wheat seed dormancy control.", Meeting on Plant Reactive Oxygen and Nitrogen Species, Helsinki, Finland, July 8-10, 2009, Abstract O15-118. (Presentation)

Bakkeren, G., Song, X., Soltani, B.M., Linning, R., Mauthe, W.R., Ching, J., Rampitsch, C., Dickinson, M., Szabo, L.J., Cuomo, C.A., and Fellers, J.P. (2009). "Wheat leaf rust, *Puccinia triticina*, genome resource building and generation of a protein profile from isolated haustoria.", 14th International Congress on Molecular Plant-Microbe Interactions, Centre des congrès de Québec, Québec City, QC, Canada, July 19-23, 2009.

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Rampitsch, C., Somers, D.J., Tamburic-Ilincic, L., Fedak, G., Ouellet, T., Humphreys, D.G., and DePauw, R.M. (2009). "Strategic application of proteomics and plant genotyping toward improved FHB resistance in Canadian wheat.", GABI 9th Statusseminar, Potsdam, Germany, March 3-5, 2009. (Poster)

Bakkeren, G., Linning, R., Xu, J., Soltani, B.M., Song, X., Rampitsch, C., Mauthe, W.R., Ching, J., McCallum, B.D., Mulock, B.S., Wang, X., Dickinson, M., Anikster, Y., Eilam, T., Cuomo, C.A., and Fellers, J.P. (2009). "The Dawn of *P. triticina* Genomics; Searching for Crop-Protection Clues Among Molecular Cereal Rust Fungal Treasure Troves.", Plant & Animal Genome XVII Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2009, W514.

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2007

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Research Publications:

2014

Asif, M., Eudes, F., Randhawa, H.S., Amundsen, E.J., and Spaner, D.M. (2014). "Phytosulfokine alpha enhances microspore embryogenesis in both triticale and wheat.", *Plant Cell, Tissue and Organ Culture*, 116(1), pp. 125-130. doi : 10.1007/s11240-013-0379-y

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Beres, B.L., Pozniak, C.J., Bressler, D., Gibreel, A., Eudes, F., Graf, R.J., Randhawa, H.S., Salmon, D.F., McLeod, G.J., Dion, Y., Irvine, R.B., Voldeng, H.D., Martin, R.A., Pageau, D., Comeau, A., DePauw, R.M., Phelps, S.M., and Spaner, D.M. (2013). "A Canadian Ethanol Feedstock Study to Benchmark the Relative Performance of Triticale: II. Grain Quality and Ethanol Production.", *Agronomy Journal*, 105, pp. 1707-1720. doi : 10.2134/agronj2013.0193

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Randhawa, H.S., Puchalski, B., Frick, M., Goyal, A., Despains, T., Graf, R.J., Laroche, A., and Gaudet, D.A. (2012). "Stripe rust resistance among western Canadian spring wheat and triticales varieties.", *Canadian Journal of Plant Science*, 92(4), pp. 713-722. doi : 10.4141/CJPS2011-252

Beres, B.L., Skovmand, B., Randhawa, H.S., Eudes, F., Graf, R.J., and McLeod, G.J. (2012). "Sunray spring triticales.", *Canadian Journal of Plant Science*, 92(2), pp. 363-367. doi : 10.4141/CJPS2011-138

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Goyal, A., Beres, B.L., Randhawa, H.S., Navabi, A., Salmon, D.F., and Eudes, F. (2011). "Yield stability analysis of broadly adaptive triticales germplasm in southern and central Alberta, Canada for industrial end-use suitability.", *Canadian Journal of Plant Science*, 91(1), pp. 125-135. doi : 10.4141/CJPS10063

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Sadasivaiah, R.S., Graf, R.J., Randhawa, H.S., Beres, B.L., Perkovic, S.M., and Virginillo, M.A. (2009). "Sadash soft white spring wheat.", *Canadian Journal of Plant Science*, 89(6), pp. 1099-1106. doi : 10.4141/CJPS09010

Other Science Related Publications:

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Kavanagh, V.B., Hall, L.M., Hills, M.J., Eudes, F., and Randhawa, H.S. (2013). "Interspecific Gene Flow from GM Triticales: Can Triticales Hybridize with Spring Wheat, Durum or Rye Under Field Conditions?", The 8th International Triticales Symposium, Ghent, Belgium, June 10-14, 2013.

Sinha, R.K., Asif, M., Amundsen, E.J., Eudes, F., and Randhawa, H.S. (2013). "Isolated microspore culture in cereals by mediating stresses and nursing.", The 8th International Triticales Symposium, Ghent, Belgium, June 10-14, 2013, (Presentation).

Ziemienowicz, A., Shim, Y.-S., Matsuoka, A., Eudes, F., Kovalchuk, I.E., and Randhawa, H.S. (2013). "Nano-Complex Mediated Transformation of Triticales.", The 8th International Triticales Symposium, Ghent, Belgium, June 10-14, 2013, (Presentation).

Randhawa, H.S., Eudes, F., Beres, B.L., Graf, R.J., Fedak, G., Comeau, A., Langevin, F., Dion, Y., and Pozniak, C.J. (2013). "Integrated approaches for triticales breeding.", The 8th International Triticales Symposium, Ghent, Belgium, June 10-14, 2013, (Presentation).

Gaudet, D.A., Puchalski, B., Randhawa, H.S., Despains, T., and Laroche, A. (2013). "Control of stripe rust in western Canada.", Canadian Phytopathological Society Annual Meeting, Edmonton, Alberta, Canada, June 16-19, 2013. (Presentation)

Laroche, A., Puchalski, B., Singh, A., Puchalski, B., Gaudet, D.A., Randhawa, H.S., Graf, R.J., and Frick, M. (2013). "Next-generation sequencing to characterize *Pst* races from western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, New Delhi, India, August 19-22, 2013. (Presentation)

Randhawa, H.S., Puchalski, B., Puchalski, B., Laroche, A., Graf, R.J., and Gaudet, D.A. (2013). "Virulence analysis of Pst isolates collected from western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, New Delhi, India, August 19-22, 2013. (Presentation)

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Randhawa, H.S. (2012). "Incorporation of common bunt resistance in western Canadian spring wheat.", XVII Biennial Workshop on the Smuts and Bunts, Shenzhen, Guangdong, China, July 9-13, 2012, (Presentation).

Kutcher, H.R., Randhawa, H.S., Puchalski, B., Wogsberg, S., Graf, R.J., and Gaudet, D.A. (2012). "The 2011 stripe rust epidemic in western Canada.", Borlaug Global Rust Initiative (BGRI) Technical Workshop, Beijing, China, September 1-4, 2012.

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Laroche, A., Frick, M., Puchalski, B., Graf, R.J., Randhawa, H.S., and Gaudet, D.A. (2011). "Towards the genome sequencing of Alberta races of *Puccinia striiformis*, the causal agent of stripe rust.", 32nd Annual Meeting of the Plant Pathology Society of Alberta (PPSA), University of Alberta, Edmonton, AB, Canada, November 7-9, 2011, pp. 9.

Randhawa, H.S., Puchalski, B., Wogsberg, S., Graf, R.J., Kutcher, H.R., and Gaudet, D.A. (2011). "The occurrence of stripe rust epidemic in western Canada.", 1st Canadian Wheat Symposium, Winnipeg, MB, Canada, November 30-December 2, 2011. (Abstract)

Comeau, A., Langevin, F., Randhawa, H.S., Dion, Y., and Voldeng, H.D. (2011). "Development of fusarium head blight-resistant wheat: a systemic approach deserves more attention.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 93.

Fox, S.L., DePauw, R.M., Humphreys, D.G., Hucl, P.J., Singh, A.K., Pozniak, C.J., Brown, P.D., Graf, R.J., Randhawa, H.S., Voldeng, H.D., McCartney, C.A., Hiebert, C.W., Knox, R.E., Thomas, J.B., Townley-Smith, L., and Fetch Jr., T.G. (2011). "Canadian initiatives in breeding for stem rust resistance to race Ug99 and variants.", Borlaug Global Rust Initiative (BGRI) 2011 Technical Workshop, St. Paul, MN, USA, June 13-16, 2011, pp. 121-126.

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Research Publications:

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- Athukorala, S.N.P., Fernando, W.G.D., Rashid, K.Y., and de Kievit, T. (2007). "Detection of antibiotic-related genes of *Bacillus* species using polymerase chain reaction.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 95, A1-6. (Abstract)
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Research Publications:

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Research Publications:

2013

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Research Publications:

2014

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Other Science Related Publications:

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Guo, X.-B., Drury, C.F., Reynolds, W.D., Yang, X.M., and Fan, R.-Q. (2013). "Nitrous oxide and carbon dioxide emissions from aerobic and anaerobic incubations: effect of core length.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013.

Yang, X.M., Drury, C.F., Reynolds, W.D., and Yang, J.Y. (2013). "Fall accumulation and spring release of soil mineral nitrogen following winter wheat and before corn planting on a Brookston clay loam in SW Ontario.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013.

Yang, X.M., Drury, C.F., Yang, J.Y., and Reynolds, W.D. (2013). "Is Mid-Infrared Spectral Subtraction a Practical Approach for Accurate Study of Soil Organic Matter?", the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America 2013 International Annual Meetings, Tampa, FL, USA, November 3-6, 2013.

Reynolds, W.D., Drury, C.F., Yang, X.M., and Yang, J.Y. (2013). "A generalized analysis for the variable-head borehole permeameter test.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013.

Zhang, B.L., Drury, C.F., Yang, X., Reynolds, W.D., and Zhang, X. (2013). "Effects of long-term and recently imposed tillage on the concentration and composition of amino sugars in a clay loam soil.", Joint annual meetings of the Canadian Society of Soil Science, Manitoba Soil Science Society, and Canadian Society of Agricultural and Forest Meteorology, Fort Garry Hotel, Winnipeg, MB, Canada, July 22-25, 2013, Oral presentation.

Zhang, B., Drury, C.F., Yang, X.M., Reynolds, W.D., and Zhang, X. (2013). "Effects of long-term and recently imposed tillage on the concentration and composition of amino sugars in a clay loam soil.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013.

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Engbers, H., Rudy, H., and Reynolds, W.D. (2013). Field-Estimation of Drought Resilience for Efficient Row Crop Management Interim report to: Farm and Food Care Ontario, Guelph, Ontario. (Report)

Reynolds, W.D. and Hutchinson, A.S. (2013). "Computer spreadsheets of data analysis and calculations based on newly developed variable-head borehole permeameter (VHBP) technology; interpretation of VHBP results; recommendations on next steps." (Technology transfer)

Reynolds, W.D. and Handyside, P. (2013). "Scientific knowledge on soil properties relevant to irrigation scheduling of field-based horticultural crops; methodology and infrastructure for determination of plant-available soil air and water capacities on intact soil core samples." (Technology transfer)

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Yang, X.M., Drury, C.F., Reynolds, W.D., McLaughlin, N.B., and Yang, J.Y. (2012). "Impacts of Fifty-Years of Crop Rotation and Fertilization on SOC and N of a Brookston Clay Loam in Southwestern Ontario.", 3rd AQSSS-CSSS Joint Meeting/Congrès conjoint AQSSS-SCSS: Soils in a changing climate: Friend of foe?, Manoir St-Castin, Québec City, QC, Canada, June 3-8, 2012, pp. 127.

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Fan, R.-Q., Yang, X.M., Drury, C.F., Reynolds, W.D., and Zhang, X.-P. (2012). "Characterizing Organic Carbon in Aggregate Inner and Outer-Core Fractions of Soils Under Different Land Use Systems.", 3rd AQSSS-CSSS Joint Meeting/Congrès conjoint AQSSS-SCSS: Soils in a changing climate: Friend or foe?, Manoir St-Castin, Québec City, QC, Canada, June 3-8, 2012, pp. 74.

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Research Publications:

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Research Publications:

2013

Chantigny, M.H., MacDonald, J.D., Angers, D.A., Rochette, P., Royer, I., and Gasser, M.-O. (2013). "Soil nitrogen dynamics following herbicide kill and tillage of manured and unmanured grasslands.", *Canadian Journal of Soil Science*, 93(2), pp. 229-237. doi : 10.4141/cjss2012-094

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Other Science Related Publications:

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Chantigny, M.H., Larney, F.J., Angers, D.A., Bittman, S., Lapen, D.R., and Rochette, P. (2013). "Overwinter transformation and fate of fall-applied nitrogen in various Canadian ecozones.", Canadian Society of Soil Science-Manitoba Soil Science Soc.-Can. Soc. Agric. Forest Meteorology Joint Ann. Meeting, Winnipeg, MB, Canada, July 22-25, 2013, pp. 46. (Abstract)

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Research Publications:

2014

Rochon, D., Singh, B., Reade, R., Theilmann, J., Ghoshal, K., Alam, S.B., and Maghodia, A. (2014). "The p33 auxiliary replicase protein of Cucumber necrosis virus targets peroxisomes and infection induces *de novo* peroxisome formation from the endoplasmic reticulum.", *Virology*, 452-453, pp. 133-142. doi : 10.1016/j.virol.2013.12.035

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Research Publications:

2011

Sharifi, M., Zebarth, B.J., Burton, D.L., Rodd, A.V., and Grant, C.A. (2011). "Long-term effects of semisolid beef manure application to forage grass on soil mineralizable nitrogen.", *Soil Science Society of America Journal*, 75(2), pp. 649-658. doi : 10.2136/sssaj2010.0089

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Fuller, K.D., Burton, D.L., Drury, C.F., Grimmett, M.G., Zebarth, B.J., Franklin, J.L., Rodd, A.V., Van Roestel, J., and George, E. (2013). "Growing season denitrification losses impacted by land management practices, soil properties, and weather conditions in manure-amended perennial hayfield and corn-soybean-wheat rotations in Atlantic Canada.", CSSS/MSSS/CSAFM 2013 Annual Meeting, Winnipeg, MB., Canada, June 22-25, 2013. (Poster)

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Thilakarathna, R.M.M.S., Papadopoulos, Y.A., Rodd, A.V., Fillmore, S.A.E., and Prithiviraj, B. (2010). "Extent of nitrogen transfer from two diverse red clover cultivars to companion blue grass under field conditions.", 5th Canadian Society of Agronomy (CSA) Atlantic Workshop: Climate Change and Crop Health, Rodd Charlottetown Hotel, Charlottetown, PEI, Canada, January 19-20, 2010.

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Rodd, A.V., Papadopoulos, Y.A., Laflamme, L.F., McRae, K.B., Fillmore, S.A.E., and Wilson, R.W. (2008). "Effect of rotational grazing on selected physical properties of a Gleyed Brunisolic Gray Luvisol loam.", Atlantic Pasture Advantage Conference, Nova Scotia Agriculture College, Truro, NS, Canada, October 24-25, 2008. (Poster)

Wells, J., Rodd, A.V., Gordon, R.J., MacLeod, J.A., and Madani, A. (2008). "Timing of manure application effects on forage yield and N and P uptake.", 4th Canadian Society of Agronomy (CSA) Atlantic Workshop, Rodd Charlottetown Hotel, Charlottetown, PEI, Canada, January 15-16, 2008. (Poster)

Rodd, A.V., Thomas, B., Van Roestel, J., Bittman, S., Gordon, R.J., Butrón, D., Fillmore, S.A.E., Fuller, K.D., Hebb, D., Grimmett, M.G., and Campbell, A.J. (2008). Demonstration of below crop canopy manure injection technology. Report to Greencover Canada Program., Agriculture and Agri-Food Canada (AAFC)/Agriculture et Agroalimentaire Canada (AAC). (Report)

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Research Publications:

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Other Science Related Publications:

2011

Lévesque, C.A., Robideau, G.P., Eggertson, Q.A., Rodrigue, N., Chen, W., Spies, C.F.J., de Cock, A.W.A.M., Hamilton, J., Adhikari, B., and Buell, C.R. (2011). "Comparative genomics opens up a new era for oomycete taxonomy, ecology and diagnostics.", 71th Annual Meeting Meeting of the North-East Division of the American Phytopathological Society: The Oomycetes: Current and Future Challenges, New Brunswick, NJ, USA, October 12-14, 2011.

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Research Publications:

2012

Ross, K.A., Leung, A., Godfrey, D.V., and Mazza, G. (2012). "Evaluation of thermal decomposition and antioxidant activity of crop residues and ionic liquid extracted lignin.", *World Applied Sciences Journal*, 16(2), pp. 160-176.

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Kagale, S., Uzuhashi, S., Wigness, M., Bender, T., Yang, W., Borhan, M.H., and Rozwadowski, K. (2012). "TMV-Gate vectors: Gateway compatible tobacco mosaic virus based expression vectors for functional analysis of proteins.", *Scientific Reports*, 2(Article No. 874), pp. 1-10. doi : 10.1038/srep00874

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Research Publications:

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Other Science Related Publications:

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Karran, R., Walker, M.C., and Sanfaçon, H. (2013). "Tomato ringspot virus coat protein as a potential translational enhancer.", 32nd Annual Meeting of the American Society for Virology, Pennsylvania State University, University Park, Pennsylvania, USA, July 20-24, 2013, (oral presentation).

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Research Publications:

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Champagne, C.P., Gardner, N.J., Lafleur, S., and Savard, T. (2010). "Population yields and vegetable juice fermentation of *Leuconostoc mesenteroides* cultures grown under free-cell or immobilized-cell technologies.", *Food Biotechnology*, 24(1), pp. 1-18. doi : 10.1080/08905430903320701

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Savard, T. (2010). "Fermented Food and Beverages: Vegetables applications.", in Heldman, D.R. (ed.) *Encyclopedia of Biotechnology in Agriculture and Food*, CRC Press Taylor & Francis.

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2007

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Savitch, Leonid V., Ph.D.

Research Scientist

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Research Publications:

2014

Dahal, K., Kane, K., Sarhan, F., Savitch, L.V., Singh, J., Grodzinski, B., and Hüner, N.P.A. (2014). "C-repeat transcription factors as targets for maintenance of crop growth under sub-optimal conditions.", in Passarakli, M. (ed.) Handbook of Plant and Crop Physiology, 3rd Edition, CRC Press, pp. 313-332.

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Other Science Related Publications:

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Research Publications:

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Research Publications:

2014

Klabi, R., Hamel, C., Schellenberg, M.P., Iwaasa, A.D., Raies, A., and St-Amaud, M. (2014). "Interaction between legume and arbuscular mycorrhizal fungi identity alters the competitive ability of warm-season grass species in a grassland community.", *Soil Biology & Biochemistry*, 70, pp. 176-182. doi : 10.1016/j.soilbio.2013.12.019

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Research Publications:

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Research Publications:

2014

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Other Science Related Publications:

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Simard, M.-J. (2013). "L'ériochloé velue (*Eriochloa villosa*) (graminée), une nouvelle mauvaise herbe à surveiller.", 20e séminaire du CRDSGC / 20th seminar of SCRDC, Centre de Recherche et de Développement sur les Sols et les Grandes Cultures / Soils and Crops Research and Development Centre, Québec, QC, Canada, March 14, 2013. (Presentation)

2012

Nadeau, M.-J., Masson, E., Noisel, N., Groulx, J., Hénault, G., Benoît, D.-L., Simard, M.-J., and LaFlamme, L. (2012). "Projet herbe à poux 2007-2010. Résumé scientifique – Phase I.", published by Agence de santé et des services sociaux de la Montérégie, Direction de santé publique, QC, Canada, 12 pages, ISBN 9782550628927. (Technology transfer)

Simard, M.-J., Panneton, B., Tardif-Paradis, C., Leroux, G.D., Nurse, R.E., and Vanasse, A. (2012). "Do unseeded corn or soybean rows have more weeds?", Canadian Weed Science Society 66th Annual Meeting, Fairmont Hotel, Winnipeg, MB, Canada, November 12-15, 2012. (Abstract)

2011

Benoît, D.-L. and Simard, M.-J. (2011). "Common ragweed densities in two municipalities in Quebec with and without control programs.", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 21-24, 2011, pp. 60. (Poster)

Benoît, D.-L. and Simard, M.-J. (2011). "Ragweed pollen concentrations following a three year control program in two municipalities in southwestern Quebec.", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 21-24, 2011, pp. 59. (Poster)

Simard, M.-J., Panneton, B., Leroux, G.D., Vanasse, A., and Nurse, R.E. (2011). "Can Inter-row Soil Disturbance at Seeding Lead to Efficient Localized Weed Control Using Plant Cover Detection?", 51st Annual Meeting of the Weed Science Society of America (WSSA), Hilton Portland & Executive Tower Hotel, Portland, OR, USA, February 7-10, 2011. (Poster)

Simard, M.-J., Rouane, S., and Leroux, G.D. (2011). "Effect of Herbicide Rate and Rotation on the Weed Seed Bank After Three Years of Transgenic Corn/soybean Cropping.", 51st Annual Meeting of the Weed Science Society of America (WSSA), Hilton Portland & Executive Tower Hotel, Portland, OR, USA, February 7-10, 2011. (Poster)

Nadeau, M.-J., Masson, E., Noisel, N., Groulx, J., Potvin, P., Benoît, D.-L., and Simard, M.-J. (2011). "Projet Herbe à poux 2007-2010. Réduire le pollen de l'herbe à poux : mission réaliste. Faits Saillants.", published by Agence de santé et des services sociaux de la Montérégie, Direction de santé publique, QC, Canada, 4 pages, 11-244-01F. (Technology transfer)

2010

Longchamps, L., Panneton, B., Simard, M.-J., and others (2010). "Weed cover on and between corn rows implications for real-time weed detection.", XVIIth World Congress of the International Commission of Agricultural Engineering (CIGR): Sustainable Development through Engineering, Québec City, QC, Canada, June 13-17, 2010, Ppaper CSBE100789, pp. 7.

2009

Simard, M.-J., Panneton, B., Rouane, S., Leroux, G.D., Longchamps, L., and Légère, A. (2009). "Doses réduites d'herbicides et dynamique des populations de mauvaises herbes.", Cahier de conférence Événement conjoint en phytoprotection, CRAAQ/SPPQ, Drummondville, QC, Canada, October 22-23, 2009.

2008

Simard, M.-J., Darbyshire, S.J., and Nurse, R.E. (2008). "Woolly cupgrass (*Eriochloa villosa*): A new weed to watch for in corn and soybean.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008. (Poster)

Simard, M.-J. and Benoît, D.-L. (2008). "Distribution of *Ambrosia artemisiifolia* (common ragweed), an allergenic weed, in an urban and rural setting of eastern Canada.", 5th International Weed Science Congress: weeds local problems, global challenge, Westin Bayshore Hotel, Vancouver, BC, Canada, June 23-27, 2008. (Poster)

Warwick, S.I., Légère, A., and Simard, M.-J. (2008). "Do escaped transgenes persist in nature? Hybridization and introgression of transgenes from canola in weedy bird rape (*Brassica rapa* L.).", 10th International Symposium on the Biosafety of Genetically Modified Organisms (ISBGMO), Museum of New Zealand Te Papa Tongarewa, Wellington, New Zealand, November 16-21, 2008. (Poster)

Rouane, S., Simard, M.-J., and Leroux, G.D. (2008). "Effects of reduced rates of glyphosate and glufosinate on the weed seed bank in a corn and soybean rotation.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008. (Abstract)

Longchamps, L., Panneton, B., Brouillard, M., Simard, M.-J., and Leroux, G.D. (2008). "Row vs inter-row weed seedling infestations in corn as detected by image analysis.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008.

Simard, M.-J., Légère, A., and Willenborg, C.J. (2008). "Flowering and seed-set phenology of transgenic *Brassica napus* cultivars: Effect on intraspecific gene flow.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008. (Poster)

Simard, M.-J., Panneton, B., Longchamps, L., Lemieux, C., Légère, A., and Leroux, G.D. (2008). "Effect of Reduced Herbicide Rates Based on Image Sampling and Weed Cover Thresholds.", 5th International Weed Science Congress: weeds local problems, global challenge, Westin Bayshore Hotel, Vancouver, BC, Canada, June 23-27, 2008.

Longchamps, L., Panneton, B., Brouillard, M., Simard, M.-J., and Leroux, G.D. (2008). "L'infestation par les mauvaises herbes est-elle la même sur le rang et sur l'entre-rang dans le maïs?.", Commémoration du Centenaire de la Société de protection des plantes du Québec (SPPQ), Musée national des beaux-arts du Québec, Québec City, QC, Canada, November 19, 2008. (Abstract)

2007

Simard, M.-J. and Benoît, D.-L. (2007). "Distribution of common ragweed (*Ambrosia artemisiifolia*) in southern Québec corn and soybean fields and field borders.", Canadian Weed Science Society 61st Annual Meeting, Fairmont Tremblant, Mont Tremblant, QC, Canada, November 27-29, 2007. (Poster)

Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? Introgression of a transgene in weedy bird rape (*Brassica rapa* L.).", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 164, P3-32. (Poster)

Simard, M.-J., Légère, A., and Warwick, S.I. (2007). "Sympatry and hybridization of canola and bird rape (*Brassica rapa* L.) in Québec.", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 164, P3-34. (Poster)

Simard, M.-J., Légère, A., and Warwick, S.I. (2007). "Sympatry and hybridization of canola (*Brassica napus*) and birdsrape mustard (*B. rapa*) in Québec.", 47th Annual Meeting of the Weed Science Society of America (WSSA), Hyatt Regency Hotel, San Antonio, TX, USA, February 4-8, 2007. (Poster)

Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? The case of an herbicide resistance transgene in a weedy population of bird rape (*Brassica rapa* L.).", Third International Conference on Coexistence between Genetically-Modified (GM) and non-GM based Agricultural Supply Chains (GMCC-07), Seville, Spain, November 20-21, 2007. (Poster)

Simard, M.-J., Panneton, B., Longchamps, L., Lemieux, C., Légère, A., and Leroux, G.D. (2007). "Four years of reduced herbicide rates based on image sampling and weed cover thresholds.", Canadian Weed Science Society 61st Annual Meeting, Fairmont Tremblant, Mont Tremblant, QC, Canada, November 27-29, 2007. (Poster)

Benoît, D.-L., Simard, M.-J., Desseaux, C., and Coquart, K. (2007). "Influence des habitats urbains sur la distribution des populations et de l'émission pollinique de l'herbe à poux à Saint-Jean-sur-Richelieu.", Canadian Weed Science Society 61st Annual Meeting, Fairmont Tremblant, Mont Tremblant, QC, Canada, November 27-29, 2007. (Poster)

Simard, M.-J., Légère, A., and Warwick, S.I. (2007). "Sympatry and hybridization of canola and bird rape (*Brassica rapa* L.) in Québec.", 62nd Annual Meeting of the North Central Weed Science Society, Regency Hotel, St-Louis, MO, USA, December 10-13, 2007. (Poster)

Warwick, S.I., Légère, A., Simard, M.-J., and James, T. (2007). "Do escaped transgenes persist in nature? The case of an herbicide resistance transgene in a weedy population of bird rape (*Brassica rapa* L.).", 62nd Annual Meeting of the North Central Weed Science Society, Regency Hotel, St-Louis, MO, USA, December 10-13, 2007. (Poster)

Simard, M.-J., Légère, A., and Warwick, S.I. (2007). "Sympatry and hybridization of canola and bird rape (*Brassica rapa* L.) in Québec.", Third International Conference on Coexistence between Genetically-Modified (GM) and non-GM based Agricultural Supply Chains (GMCC-07), Seville, Spain, November 20-21, 2007. (Poster)

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Research Publications:

2013

Calla, B., Blahut-Beatty, L., Koziol, L., Simmonds, D.H., and Clough, S.J. (2013). "Transcriptome analyses suggest a disturbance of iron homeostasis in soybean leaves during white mold disease establishment.", *Molecular Plant Pathology*. doi : 10.1111/mpp.12113

Calla, B., Blahut-Beatty, L., Koziol, L., Zhang, Y., Neece, D.J., Carbajulca, D., Garcia, A., Simmonds, D.H., and Clough, S.J. (2013). "Genomic evaluation of oxalate-degrading transgenic soybean in response to *Sclerotinia sclerotiorum* infection.", *Molecular Plant Pathology*. doi : 10.1111/mpp.12115

Zhang, Y., Itaya, A., Fu, P., Zheng, S.Q., Hulm, J., Blahut-Beatty, L., Marillia, E.-F., Lindenbaum, M., Fabijanski, S.F., and Simmonds, D.H. (2013). "Generation of stable engineered chromosomes in soybean.", *Plant Biotechnology Journal*, 30(5), pp. 455-464. doi : 10.5511/plantbiotechnology.13.0704b

Zhang, Y., Scherthner, J.P., Labbé, N.M., Hefford, M.A., Zhao, J., and Simmonds, D.H. (2013). "Improved Protein Quality in Transgenic Soybean Expressing a De Novo Synthetic Protein, MB-16.", *Transgenic Research*. doi : 10.1007/s11248-013-9777-5

2012

Chai, T.-T., Simmonds, D.H., Day, D.A., Colmer, T.D., and Finnegan, P.M. (2012). "A *GmAox2b* antisense gene compromises vegetative growth and seed production in soybean.", *Planta*, 236(1), pp. 199-207. doi : 10.1007/s00425-012-1601-6

Srouf, A., Afzal, A.J., Blahut-Beatty, L., Hemmati, N., Simmonds, D.H., Li, W.B., Liu, M., Town, C.D., Sharma, H., Arelli, P., and Lightfoot, D.A. (2012). "The receptor like kinase at *Rhg1-a/Rfs2* caused pleiotropic resistance to sudden death syndrome and soybean cyst nematode as a transgene by altering signaling responses.", *BMC Genomics*, 13, pp. 368-377. doi : 10.1186/1471-2164-13-368

2011

Li, R.G., Bancroft, B., Hutcheon, C., Zhao, S., Zheng, S.Q., Blahut-Beatty, L., De Rocher, J., and Simmonds, D.H. (2011). "Multiple inserts of gene of interest (GOI) and selectable marker gene (SMG) are co-integrated and stably transmitted as a single genetic locus in transgenic soybean plants.", *In Vitro Cellular & Developmental Biology Plant*, 47(2), pp. 274-281. doi : 10.1007/s11627-011-9359-2

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Chai, T.-T., Simmonds, D.H., Day, D.A., Colmer, T.D., and Finnegan, P.M. (2010). "Photosynthetic performance and fertility are repressed in *GmAox2b* antisense soybean.", *Plant Physiology*, 152(3), pp. 1638-1649. doi : 10.1104/pp.109.149294

2007

McLean, M.D., Hoover, G.J., Bancroft, B., Makhmoudova, A., Clark, S.M., Welacky, T.W., Simmonds, D.H., and Shelp, B.J. (2007). "Identification of the full-length Hs1pro⁻¹ coding sequence and preliminary evaluation of soybean cyst nematode resistance in soybean transformed with Hs1pro⁻¹ cDNA.", *Canadian Journal of Botany*, 85(4), pp. 437-441. doi : 10.1139/B07-038

Other Science Related Publications:

2011

Blahut-Beatty, L., Koziol, L., Calla, B., Neece, D.J., Radwan, O., Clough, S.J., and Simmonds, D.H. (2011). "Functional verification of candidate defense-related genes to *Sclerotinia sclerotiorum* in soybean and *Arabidopsis*.", National Sclerotinia Initiative Annual Meeting, Bloomington, MN, USA, January 19-21, 2011. (Presentation)

Simmonds, D.H. (2011). "Functional verification of candidate defense-related genes to *Sclerotinia sclerotiorum* in soybean and *Arabidopsis*.", National Sclerotinia Initiative 7th Annual Meeting, Bloomington, MN, USA, January 19-21, 2011, pp. 12. (Poster)

Simmonds, D.H., Zhang, Y., Calla, B., Fu, P., Blahut-Beatty, L., Zheng, S.Q., Itaya, A., Koziol, L., Simmonds, J.A., Neece, D.J., Fabijanski, S.F., Clough, S.J., and Lindenbaum, M. (2011). "Induced resistance to pests in crop plants modified with Oxalate Oxidase: identification of candidate defence-related genes and a strategy for gene stacking.", Biotechnology Havana 2011, Havana, Cuba, November 28-December 3, 2011.

Calla, B., Blahut-Beatty, L., Koziol, L., Neece, D.J., Clough, S.J., and Simmonds, D.H. (2011). "Identification of candidate defence-related genes to *Sclerotinia sclerotiorum* in soybean and functional analysis in soybean and *Arabidopsis*.", Botrytis-Sclerotinia Post-Genome Workshop, Lyon, France, September 15-17, 2011. (Presentation)

Calla, B., Neece, D.J., Blahut-Beatty, L., Koziol, L., Simmonds, D.H., and Clough, S.J. (2011). "Identification of a soybean G-protein coupled receptor and its role in plant defense responses.", Plant Biology 2011, Minneapolis, MN, USA, August 6-10, 2011. (Poster)

2008

Simmonds, D.H. (2008). Investigation on the activity of three genes, REVOLUTA, P27 and harpin, to increase yield and vigor in soybeans. Annual Report to Targeted Growth on Collaboration ., AAFC Eastern Cereal and Oilseed Research Centre, Ottawa, ON. (Report)

Simmonds, D.H. (2008). Identification and functional analysis of candidate defense-related genes to *Sclerotinia sclerotiorum* in soybean and *Arabidopsis*. Annual Report to Agricultural Research Service, United States Department of Agriculture (ARS/USDA)., AAFC Eastern Cereal and Oilseed Research Centre, Ottawa, ON. (Report)

Calla, B., Simmonds, D.H., and Clough, S.J. (2008). "Genomic analysis of soybean defense response to *Sclerotinia sclerotiorum*.", 12th Biennial Cellular and Molecular Biology of the Soybean Conference, Hyatt Regency Hotel, Indianapolis, IN, USA, July 20-23, 2008. (Abstract)

Calla, B., Simmonds, D.H., and Clough, S.J. (2008). "Identification and functional analysis of candidate *Sclerotinia* defense genes in soybean.", National Sclerotinia Initiative 4th Annual Meeting, Minneapolis (Bloomington), MN, USA, January 23-25, 2008, pp. 12.

Calla, B., Simmonds, D.H., and Clough, S.J. (2008). "Genomic analysis of soybean defense response to *Sclerotinia sclerotiorum*.", *Phytopathology*, 98(S30). (Abstract)

Zhang, Y., Hefford, M.A., Scherthner, J.P., Zhao, J., Hubbard, S., Blahut-Beatty, L., Zheng, S.Q., Bancroft, B., and Simmonds, D.H. (2008). "Expression of a De Novo Methionine-Rich Protein MB16 in Transgenic Soybeans.", IV International Conference on Legume Genomics and Genetics, Puerto Vallarta, México, December 7-12, 2008, pp. 59. (Abstract)

Li, R., Bancroft, B., Lum, K., Nguyen, T., De Rocher, J., and Simmonds, D.H. (2008). "Overexpression of the *Arabidopsis* Transcription Factor REVOLUTA Leads to Increased Soybean Seed Size and Yield. Abstract P-1012.", *In Vitro Cellular & Developmental Biology Plant*, 44, pp. S39. (Abstract)

2007

Calla, B., Simmonds, D.H., and Clough, S.J. (2007). "Genomic analysis of soybean defense response to *Sclerotinia sclerotiorum*.", National Sclerotinia Initiative 3rd Annual Meeting, Holiday Inn Select, Minneapolis (Bloomington), MN, USA, January 17-19, 2007, pp. 23.

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Research Publications:

2014

DePauw, R.M., Knox, R.E., Cuthbert, R.D., Singh, A.K., and McCaig, T.N. (2014). "AAC Bailey hard red spring wheat.", *Canadian Journal of Plant Science*, 94(1), pp. 175-181. doi : 10.4141/cjps2013-252

2013

Singh, A., Knox, R.E., DePauw, R.M., Singh, A.K., Cuthbert, R.D., Campbell, H.L., Singh, D., Bhavani, S., Fetch Jr., T.G., and Clarke, F.R. (2013). "Identification and mapping in spring wheat of genetic factors controlling stem rust resistance and the study of their epistatic interactions across multiple environments.", *Theoretical and Applied Genetics (TAG)*, 126(8), pp. 1951-1964. doi : 10.1007/s00122-013-2109-6

Randhawa, H.S., Asif, M., Pozniak, C.J., Clarke, J.M., Graf, R.J., Fox, S.L., Humphreys, D.G., Knox, R.E., DePauw, R.M., Singh, A.K., Cuthbert, R.D., Hucl, P.J., and Spaner, D.M. (2013). "Application of Molecular Markers for Wheat Breeding in Canada.", *Plant Breeding*, 132(5), pp. 458-471. doi : 10.1111/pbr.12057

Fu, B.X., Schlichting, L., Pozniak, C.J., and Singh, A.K. (2013). "Pigment loss from semolina to dough: Rapid measurement and relationship with pasta colour.", *Journal of Cereal Science*. doi : 10.1016/j.jcs.2013.03.007

Singh, A., Pandey, M.P., Singh, A.K., Knox, R.E., Ammar, K., Clarke, J.M., Clarke, F.R., Singh, R.P., Pozniak, C.J., DePauw, R.M., McCallum, B.D., Cuthbert, R.D., Randhawa, H.S., and Fetch Jr., T.G. (2013). "Identification and mapping of leaf, stem and stripe rust resistance quantitative trait loci and their interactions in durum wheat.", *Molecular Breeding*, 31(2), pp. 405-418. doi : 10.1007/s11032-012-9798-4

2012

Isidro, J., Knox, R.E., Clarke, F.R., Singh, A.K., DePauw, R.M., Clarke, J.M., and Somers, D.J. (2012). "Quantitative genetic analysis and mapping of leaf angle in durum wheat.", *Planta*, 236(6), pp. 1713-1723. doi : 10.1007/s00425-012-1728-5

Singh, A.K., Clarke, J.M., Knox, R.E., DePauw, R.M., McCaig, T.N., Fernandez, M.R., and Clarke, F.R. (2012). "Transcend Durum wheat.", *Canadian Journal of Plant Science*, 92(4), pp. 809-813. doi : 10.4141/cjps2011-255

Cruz, A.F., Hamel, C., Yang, C., Mastubara, T., Gan, Y.T., Singh, A.K., Kuwada, K., and Ishii, T. (2012). "Phytochemicals to suppress Fusarium head blight in wheat-chickpea rotation.", *Phytochemistry*, 78, pp. 72-80. doi : 10.1016/j.phytochem.2012.03.003

Singh, A.K., Hamel, C., DePauw, R.M., and Knox, R.E. (2012). "Genetic variability in arbuscular mycorrhizal fungi compatibility supports the selection of durum wheat genotypes for enhancing soil ecological services and cropping systems in Canada.", *Canadian Journal of Microbiology*, 58(3), pp. 293-302. doi : 10.1139/W11-140

Isidro, J., Knox, R.E., Singh, A.K., Clarke, F.R., Krishna, P., DePauw, R.M., Clarke, J.M., and Somers, D.J. (2012). "Brassinosteroid leaf unrolling QTL mapping in durum wheat.", *Planta*, 236(1), pp. 273-281. doi : 10.1007/s00425-012-1603-4

DePauw, R.M., Knox, R.E., Singh, A.K., Fox, S.L., Humphreys, D.G., and Hucl, P.J. (2012). "Developing standardized methods for breeding preharvest sprouting resistant wheat, challenges and successes in Canadian wheat.", *Euphytica*, 188(1), pp. 7-14. doi : 10.1007/s10681-011-0611-y

2011

Fu, B.X., Schlichting, L., Pozniak, C.J., and Singh, A.K. (2011). "A fast, simple, and reliable method to predict pasta yellowness.", *Cereal Chemistry*, 88(3), pp. 264-270. doi : 10.1094/CCHEM-12-10-0173

DePauw, R.M., Knox, R.E., Humphreys, D.G., Thomas, J.B., Fox, S.L., Brown, P.D., Singh, A.K., Pozniak, C.J., Randhawa, H.S., Fowler, D.B., Graf, R.J., and Hucl, P.J. (2011). "New breeding tools impact Canadian commercial farmer fields.", *Czech Journal of Genetics and Plant Breeding (CJGPB)*, 47(Spec. Issue 1), pp. S28-S34.

Singh, A.K., Coleman, T.K., Tollenaar, M., and Lee, E.A. (2011). "Nature of the Genetic Variation in an Elite Maize Breeding Cross.", *Crop Science*, 51(1), pp. 75-83. doi : 10.2135/cropsci2010.06.0378

Knox, R.E., Clarke, F.R., Clarke, J.M., Fox, S.L., DePauw, R.M., and Singh, A.K. (2011). "Enhancing the identification of genetic loci and transgressive segregants for preharvest sprouting resistance in a durum wheat population.", *Euphytica*, 186(1), pp. 193-206. doi : 10.1007/s10681-011-0557-0

2010

Singh, A.K., Clarke, J.M., DePauw, R.M., Knox, R.E., Clarke, F.R., Fernandez, M.R., and McCaig, T.N. (2010). "Enterprise durum wheat.", *Canadian Journal of Plant Science*, 90(3), pp. 353-357. doi : 10.4141/CJPS09147

Ramachandran, A., Pozniak, C.J., Clarke, J.M., and Singh, A.K. (2010). "Carotenoid accumulation during grain development in durum wheat.", *Journal of Cereal Science*, 52(1), pp. 30-38. doi : 10.1016/j.jcs.2010.02.014

Fernandez, M.R., Clarke, F.R., Knox, R.E., Clarke, J.M., and Singh, A.K. (2010). "Quantification of effects of leaf spotting diseases on grain yield and market quality of durum wheat using near-isogenic lines.", *Canadian Journal of Plant Pathology*, 32(2), pp. 177-187. doi : 10.1080/07060661003740025

2009

Suprayogi, Y., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Knox, R.E., and Singh, A.K. (2009). "Identification and validation of quantitative trait loci for grain protein concentration in adapted Canadian durum wheat populations.", *Theoretical and Applied Genetics (TAG)*, 119(3), pp. 437-448. doi : 10.1007/s00122-009-1050-1

Singh, A., Reimer, S., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Knox, R.E., and Singh, A.K. (2009). "Allelic variation at *Psy1-A1* and association with yellow pigment in durum wheat grain.", *Theoretical and Applied Genetics (TAG)*, 118(8), pp. 1539-1548. doi : 10.1007/s00122-009-1001-x

Clarke, J.M., Knox, R.E., DePauw, R.M., Clarke, F.R., Fernandez, M.R., McCaig, T.N., and Singh, A.K. (2009). "Brigade durum wheat.", *Canadian Journal of Plant Science*, 89(3), pp. 505-509. doi : 10.4141/CJPS08168

Knox, R.E., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Houshmand, S., and Singh, A.K. (2009). "Chromosomal location of the cadmium uptake gene (*Cdu1*) in durum wheat.", *Genome*, 52(9), pp. 741-747. doi : 10.1139/G09-042

Clarke, J.M., Knox, R.E., DePauw, R.M., Clarke, F.R., McCaig, T.N., Fernandez, M.R., and Singh, A.K. (2009). "Eurostar durum wheat.", *Canadian Journal of Plant Science*, 89(2), pp. 317-320. doi : 10.4141/CJPS08129

2008

Reimer, S., Pozniak, C.J., Clarke, F.R., Clarke, J.M., Somers, D.J., Knox, R.E., and Singh, A.K. (2008). "Association mapping of yellow pigment in an elite collection of durum wheat cultivars and breeding lines.", *Genome*, 51(12), pp. 1016-1025. doi : 10.1139/G08-083

2007

Adapa, P.K., Schoenau, G.J., Tabil, L.G., Sokhansanj, S., and Singh, A.K. (2007). "Compression of fractionated sun-cured and dehydrated alfalfa chops into cubes Specific Energy Models.", *Bioresource Technology*, 98(1), pp. 38-45. doi : 10.1016/j.biortech.2005.11.032

Adapa, P.K., Schoenau, G.J., Tabil, L.G., Arinze, E.A., Singh, A.K., and Dalai, A.K. (2007). "Customized and Value-added High Quality Alfalfa Products: A New Concept.", *Agricultural Engineering International: CIGR Journal*, IX(June, Manuscript FP 07 003), pp. 1-28.

Adapa, P.K., Schoenau, G.J., Tabil, L.G., and Singh, A.K. (2007). "Prediction of hardness and durability of alfalfa cubes processed from fractionated sun-cured and dehydrated alfalfa chops.", *Biosystems Engineering*, 98(4), pp. 430-436. doi : 10.1016/j.biosystemseng.2007.10.003

Other Science Related Publications:

2013

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O, K., Wu, N., Sarna, L.K., and Siow, Y.L. (2012). "Beneficial effects of berberine on cholesterol biosynthesis.", XVI International Symposium on Atherosclerosis (ISA2012), Sydney, New South Wales, Australia, March 26-29, 2012, Published in: Atherosclerosis Suppl.

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Research Publications:

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Skevington, J.H. (2013). "Update on Syrphidae research at CNC.", Symposium on Syrphidae, Novosibirsk, Russia. (Presentation)

Solecki, A.M., Skevington, J.H., Buddle, C.M., and Wheeler, T.A. (2013). "Phylogeography of higher Diptera in disjunct xeric grasslands.", Joint Annual Meeting of the Entomological Societies of Ontario and Canada, Guelph, Ontario, Canada.

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Skevington, J.H. (2011). "Gardening to Maximize Minibeast Diversity.", Parry Sound Field Naturalists', Parry Sound, ON, Canada. (Presentation)

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Skevington, J.H. and Thompson, F.C. (2011). "Revision of New World *Sericomyia* (Diptera: Syrphidae) – A contribution to the upcoming Festschrift to be published in *The Canadian Entomologist*.", Entomological Society of Ontario 148th Annual General Meeting, Brock University, St. Catharines, ON, Canada, October 21-23, 2011.

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Research Publications:

2012

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Research Publications:

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Research Publications:

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Other Science Related Publications:

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Freemantle, J., and Miller, J.R., Smith, A.M. (2008). "Vegetation classification using hyperspectral and multi-angular remote sensing data.", IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2008), Boston, MA, USA, July 6-11, 2008, pp. 1749-1750.

Zhang, J.K., Staenz, K., Eddy, P.R., Rochdi, N., Rolfson, D., and Smith, A.M. (2008). "Analysis of spaceborne hyperion imagery for the estimation of fractional cover of rangeland ecosystems.", XXI ISPRS Congress, Beijing, China, July 3-11, 2008.

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Research Publications:

2014

Smith, E.G., Hao, X., and Miller, J.J. (2014). "Economics of Utilizing Biodigested Beef Feedlot Manure to Manage Nutrient Application to Cropland.", *International Journal of Renewable Energy & Biofuels*, 2014(Article ID 371507). doi : 10.5171/2014.371507

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Research Scientist

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Research Publications:

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Research Publications:

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Song, J. (2013). "Utility of Ozone in the Postharvest Environment.", WSHA 109th Annual Meeting and NW Hort. Exp., Wenatchee, WA, USA, December 1-4, 2013. (Presentation)

Yang, X.-T., Li, L., Song, J., Palmer, C., Pinto, D., Chisholm, K., Li, X.H., and Zhang, Z. (2013). "OFFGEL peptide pre-fractionation is essential for proteomic approaches employing quantitative stable isotope dimethyl labeling and multiple reaction monitoring (MRM) of fruit proteomic research.", 7th International Symposium on enabling technologies for life science, Toronto, ON, Canada, April 29-May 1, 2013. (Poster)

Song, J. (2013). "Basic postharvest physiology of cold storage.", WSHA 109th Annual Meeting and NW Hort. Exp., Wenatchee, WA, USA, December 1-4, 2013. (Presentation)

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Fan, L., Kalt, W., Doucette, C., Hughes, T., Song, J., Chen, S., Zhang, H., and Fillmore, S.A.E. (2013). "Challenge test on heat resistant fungus, *Byssosclamyces striata* inoculated in blueberry juice and subjected to heat treatments.", IAFP annual conference, Charlotte, NC, USA, July 28-August 1, 2013. (Poster)

Fan, L., Kalt, W., Doucette, C., Hughes, T., Song, J., Chen, S., Zhang, H., and Fillmore, S.A.E. (2013). "Characterization of heat resistant fungus, *Byssosclamyces striata* inoculated in blueberry juice and subjected to heat treatments.", IAFP annual conference, Charlotte, NC, USA, July 28-August 1, 2013. (Poster)

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Forney, C.F., Fan, L., Song, J., and Jordan, M.A. (2012). "Impact of Heat Treatments on the Volatile Composition of Apples.", United Fresh 2012, Dallas Convention Center, Dallas, TX, USA, May 1-23, 2012. (Poster)

Song, J. and Fan, L. (2012). "Post-harvest treatments (1-MCP and antimicrobials) to maintain quality and control diseases of fresh-cut flowers.", Research and Innovation Forum, Canadian Ornamental Science Cluster, Mississauga, ON, Canada, December 5, 2012. (Presentation)

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Fan, L., Song, J., Moreau, D.L., Allan-Wojtas, P., Doucette, C., and Campbell-Palmer, L. (2007). "Hexanal Vapor Inhibits Fungal Growth and Controls Postharvest Fruit Decay.", *HortScience*, **42**(4), pp. 870. (Abstract)

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Research Publications:

2013

Soroka, J.J. and Grenkow, L.F. (2013). "Susceptibility of Brassicaceous Plants to Feeding by Flea Beetles, *Phyllotreta* spp. (Coleoptera: Chrysomelidae)", *Journal of Economic Entomology*, 106(6), pp. 2557-2567. doi : 10.1603/EC13102

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Soroka, J.J., Elliott, R.H., Otani, J.K., and Gavloski, J.E. (2012). "Changing flea beetle species – what you see isn't what you had but does it matter?", Saskatchewan Ministry of Agriculture Agronomy Update 2012, Saskatoon, SK, Canada, December 14, 2012. (Presentation)

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Research Publications:

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Fortin, M.-H., Champagne, C.P., St-Gelais, D., Britten, M., Fustier, P., and Lacroix, M. (2010). "Effet du moment d'inoculation, de l'ajout de ferments, de la teneur en oxygène et du salage sur la viabilité de cultures probiotiques durant la fabrication de fromage Cheddar.", Forum technologique NOVALAIT / IDF Dairy Science and Technology Week 2010, Hôtel et Suites Le Dauphin de Drummondville, Drummondville, QC, Canada, May 13, 2010, # 25. (Poster)

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Research Publications:

2014

Saguez, J., Olivier, C., Hamilton, A., Lowery, T., Stobbs, L.W., Lasnier, J., Galka, B., Chen, X., Mauffette, Y., and Vincent, C. (2014). "Diversity and abundance of leafhoppers (Hemiptera: Cicadellidae) in Canadian vineyards.", *Journal of Insect Science*, 14(73), pp. 1-20. doi : <http://www.insectscience.org/14.73>

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Research Publications:

2013

Ebadian, M., Sowlati, T., Sokhansanj, S., Townley-Smith, L., and Stumborg, M. (2013). "Modeling and analysing storage systems in agricultural biomass supply chain for cellulosic ethanol production.", *Applied Energy*, 102(February 2013), pp. 840-849. doi : 10.1016/j.apenergy.2012.08.049

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Steppuhn, H., Stumborg, M., McDonald, T., and Dunn, R.F. (2009). "Biodiesel Fuel Quality of Canola Feedstock Grown on Saline Land.", 2009 Bioenergy Engineering Conference, Hyatt Regency Hotel, Seattle, WA, USA, October 11-14, 2009, BIO-097910.

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Chang, P.R., Cao, X.D., Chen, Y., Anderson, D.P., Stumborg, M., and Huneault, M.A. (2008). "Starch-based Biocomposites Reinforced by the Additives from Hemp Fiber.", 2008 International Conference on Flax and Other Bast Plants, Saskatoon, SK, Canada, July 21-23, 2008, pp. 415, #07. (Poster)

Chang, P.R., Cao, X.D., Chen, Y., Anderson, D.P., Stumborg, M., and Huneault, M.A. (2008). "Starch-based Biocomposites Reinforced by the Additives from Hemp Fibre.", 2008 Canadian Hemp Trade Alliance National Hemp Conference and Annual General Meeting, Greenwood Inn, Winnipeg, MB, Canada, December 11-12, 2008. (Poster)

Steppuhn, H., McDonald, T., Dunn, R.F., and Stumborg, M. (2008). "Biodiesel oil quality from feedstock grown on saline lands.", Canadian Society for Bioengineering CSBE/SCGR 50th Conference and Annual General Meeting, Lonsdale Quay Hotel, Vancouver, BC, Canada, July 13-16, 2008, CSBE 08-103, pp. 18.

Steppuhn, H., Stumborg, M., and Nybo, B.X. (2008). Producing biodiesel fuel from saline lands., Canadian Society for Bioengineering (CSBE).

Steppuhn, H., Wall, K.G., Falk, K.C., Stumborg, M., and Nybo, B.X. (2008). "Salinity tolerance screening for biodiesel cultivars.", Soils and Crops Workshop 2008, University of Saskatchewan, Extension Division, Saskatoon, SK, Canada, February 28-29, 2008. (Poster)

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Research Publications:

2014

Wang, L., Mogg, C., Walkowiak, S., Joshi, M., and Subramaniam, R. (2014). "Characterization of NADPH Oxidase genes *NoxA* and *NoxB* in *Fusarium graminearum*", *Canadian Journal of Plant Pathology*. doi : 10.1080/07060661.2013.868370

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Rampitsch, C., Day, J., Subramaniam, R., and Walkowiak, S. (2013). "Comparative secretome analysis of *Fusarium graminearum* and two of its non-pathogenic mutants under nitrogen-limitation in vitro.", FHB Satellite Meeting to 27th Fungal Genetics Conference, Asilomar, CA, USA, Oral presentation. (Abstract)

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Allard, G.C., Subramaniam, R., Ouellet, T., Harris, L.J., and Singh, J. (2011). "Rapid screening of *Arabidopsis* mutants to identify transporter genes for resistance to *Fusarium graminearum*.", 7th Canadian Workshop on Fusarium Head Blight (CWFHB) / Colloque canadien sur la fusariose, Delta Winnipeg Hotel, Winnipeg, MB, Canada, November 27-30, 2011, pp. 100.

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Research Publications:

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Research Publications:

2013

Tai, H.H., Goyer, C., Platt, H.W., De Koeyer, D.L., Murphy, A.M., Uribe, P., and Halterman, D. (2013). "Decreased defense gene expression in tolerance versus resistance to *Verticillium dahliae* in potato.", *Functional and Integrative Genomics*, 13(3), pp. 367-378. doi : 10.1007/s10142-013-0329-0

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Tai, H.H., Zebarth, B.J., Luo, S., Li, X.-Q., Millard, P., De Koeyer, D.L., and Xiong, X. (2012). "Development of gene expression indicators for nitrogen sufficiency in potato plants.", Potato Association of America Annual meetings, Denver, Colorado, USA.

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Murphy, A.M., Chen, H., De Koeyer, D.L., Laguë, M., and Tai, H.H. (2010). "Breeding studies of pigmented tuber flesh in potatoes.", EUCARPIA-EAPR Joint Meeting: Potato Breeding after Completion of the DNA Sequence of the Potato Genome, Wageningen, The Netherlands, June 27-30, 2010. (Abstract)

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Tai, H.H., De Koeyer, D.L., Goyer, C., and Murphy, A.M. (2009). "Comparative transcriptome profiling of diploid potato clones with variation in maturation timing.", 65th Annual Meeting of the Acadian Entomological Society, Crowne Plaza Fredericton Lord Beaverbrook Hotel, Fredericton, NB, Canada, June 19-21, 2005. (Abstract)

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Hu, X., Tai, H.H., and Nie, X. (2008). "Does ethylene play a role in tomato in response to viroid invasion?", Canadian Phytopathological Society (CPS) Maritime Regional 2008 Meeting, AAFC Potato Research Centre, Fredericton, NB, Canada, November 27, 2008. (Abstract)

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Tai, H.H., Fraser, B., Conn, G., Stairs, C., and Beardmore, T. (2008). "Arabidopsis thaliana mutants with resistance to Trichostatin A-induced root growth inhibition.", 6th Canadian Plant Genomics Workshop, Delta Chelsea, Toronto, ON, Canada, June 23-26, 2008. (Workshop)

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Beardmore, T., Tai, H.H., and Williams, M. (2007). "Molecular containment in transgenic trees.", 1st Canadian Regulatory System for Biotechnology (CRSB) Forum: Looking Back and the Way Forward, Ottawa, ON, Canada, January 22-23, 2007.

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Research Publications:

2014

Masse, L., Mondor, M., Talbot, G., Deschênes, L., Drolet, H., Gagnon, N., St-Germain, F., and Puig-Bargues, J. (2014). "Fouling of reverse osmosis membranes processing swine wastewater pretreated by mechanical separation and aerobic biofiltration.", *Separation and Purification Technology*. doi : 10.1080/01496395.2014.881880

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Massé, D.I., Talbot, G., and Gilbert, Y. (2011). "On farm biogas production: A method to reduce GHG emissions and develop more sustainable livestock operations.", *Animal Feed Science and Technology*, 166-167, pp. 436-445. doi : 10.1016/j.anifeedsci.2011.04.075

Xia, Y., Massé, D.I., McAllister, T.A., Beaulieu, C., Talbot, G., Kong, Y., and Seviour, R. (2011). "*In situ* identification of keratin-hydrolyzing organisms in swine manure inoculated anaerobic digesters.", *FEMS Microbiology Ecology*, 78(3), pp. 451-462. doi : 10.1111/j.1574-6941.2011.01188.x

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Chiquette, J., Talbot, G., Markwell, F., Nili, N., and Forster, R.J. (2007). "Repeated ruminal dosing of *Ruminococcus flavefaciens* NJ along with a probiotic mixture in forage or concentrate-fed dairy cows: Effect on ruminal fermentation, cellulolytic populations and in sacco digestibility.", *Canadian Journal of Animal Science*, 87(2), pp. 237-249. doi : 10.4141/A06-066

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Other Science Related Publications:

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Morissette, B., Lessard, M., Yergeau, E., Lapointe, J., Guay, F., Bissonnette, N., Matte, J.J., Letellier, A., Quessy, S., Bergeron, N., Beaulieu, C., and Talbot, G. (2014). "Influence of Feed Additives as an Alternative to Antibiotics on Gut Microbiota of Weaned Piglets Infected with *Salmonella Typhimurium*.", 114th General Meeting of the American Society for Microbiology, Boston, USA, May 17-20, 2014.

2013

Morissette, B., Lessard, M., Guay, F., Matte, J.J., Gong, J., Wang, Q., Beaulieu, C., and Talbot, G. (2013). "Prebiotics, probiotic, nutraceuticals and functional food as feed additives that modulate gut microbiota of weanling piglets.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013, pp. 46. (Poster)

Léveillé, W.J., Kaneza, C.A., Léveillé, K., Talbot, G., Topp, E., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Optimization of a genus-specific PCR assay and restriction fragment length polymorphism (RFLP) analysis for rapid detection.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013, Abstract AE88.

Léveillé, K., Laprade, N., Léveillé, W.J., Topp, E., Lapen, D.R., Tambong, J.T., Talbot, G., Wilkes, G.A., and Khan, I.U.H. (2013). "Antimicrobial resistance profiling of *Arcobacter butzleri* isolates from faecal sources and an agricultural watershed.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013, Abstract AE87.

Léveillé, W.J., Kaneza, C.A., Léveillé, K., Talbot, G., Topp, E., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Optimization of multiplex PCR assays for the detection of virulence genes in *Arcobacter* species isolated from fecal samples.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013.

Abdelbasset, A., Lo Verso, L., Fliss, I., Lessard, M., Talbot, G., and Subirade, M. (2013). "Protection of probiotic bacteria in a symbiotic matrix.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013. (Poster)

Lo Verso, L., Lessard, M., Talbot, G., Subirade, M., and Fliss, I. (2013). "Isolation and antibacterial activity of potential probiotic bacteria from pig gastrointestinal tract.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013, pp. 45. (Poster)

Chiquette, J., Lagrost, J., Girard, C.L., Talbot, G., Li, S., and Plaizier, K. (2013). "Combination of Bacterial and Yeast Probiotics for Lactating Cows Submitted To a Sub-Acute Rumen Acidosis Challenge.", WCDS Advances in Dairy Technology, Canada, Volume 25, page 381. (Abstract)

Masse, L., Puig-Bargues, J., Mondor, M., Deschênes, L., and Talbot, G. (2013). "The efficiency of EDTA+SDS solutions to clean RO membranes processing swine wastewater.", 7th IWA Specialised Membrane Technology Conference and Exhibition for Water and Wastewater Treatment and Reuse, Westin Harbour Castle, Toronto, Toronto, Canada, August 25-29.

Talbot, G., Barret, M., Gagnon, N., and Topp, E. (2013). "Use of specific methanogen inhibitors and molecular analyses to elucidate biochemical pathways of methanogenesis in swine manure.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013. (Abstract)

Morissette, B., Lessard, M., Guay, F., Matte, J.J., Gong, J., Wang, Q., Beaulieu, C., and Talbot, G. (2013). "Prebiotics, probiotic, nutraceuticals and functional food as feed additives that modulate the gut microbiota of weanling piglets challenged with *E. coli* lipopolysaccharides.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013. (Abstract)

Talbot, G. (2013). "Influence of growth rate, probiotics, nutraceuticals and functional food on intestinal microbiota of suckling and weanling piglets.", 6th Symposium of Swine and Poultry Infectious Diseases Research Center. Congrès de l'ACFAS Colloque 227 – Le microbiote animal : une question d'équilibre., Université Laval, Québec, QC, Canada, May 8-9, 2013, Invited speaker.

Gil, M., Faucitano, L., Talbot, G., Devillers, N., and Saucier, L. (2013). "Stratégies pré-abattage pour améliorer la qualité microbiologique des carcasses de porc.", Congrès de bactériologie intégrative: symbiose & pathogénèse (BiSP), Québec, QC, Canada, novembre 28-29, 2013.

2012

Talbot, G., Barret, M., Gagnon, N., Kalmokoff, M.L., Topp, E., and Neufeld, J.D. (2012). "*Methanoculleus* spp. Are major contributors to methane emissions in swine and dairy manure storage tanks.", Canadian Society of Microbiologists (CSM) 62nd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Vancouver, BC, Canada, June 20-23, 2012, Abstract AE076.

Morissette, B., Lessard, M., and Talbot, G. (2012). "Is there a link between piglet's weight gain and its intestinal bacteria?", 2ème symposium du Centre de Recherche et de Développement sur le Bovin Laitier et le Porc / 2nd Annual DSRDC/ CRDBLP Symposium on Animal Production, Sherbrooke, QC, Canada, November 28, 2012.

Talbot, G., Morissette, B., and Lessard, M. (2012). "The impact of piglet weight gain on the intestinal microbiota during lactation.", Canadian Society of Microbiologists (CSM) 62nd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Vancouver, BC, Canada, June 20-23, 2012, Abstract II057. (Poster)

Chiquette, J., Lagrost, J., Girard, C.L., Li, S., Plaizier, J.C., and Talbot, G. (2012). "Combination of bacterial and yeast probiotics: a step forward to unravel their mode of action.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012, Published in: J. Anim. Sci. 90, Suppl. 3; J. Dairy Sci. 95, Suppl. 2, pp. 73, M323. (Abstract)

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Barret, M., Gagnon, N., Morissette, B., Topp, E., Massé, D.I., Masse, L., and Talbot, G. (2011). "Methanogenesis in Swine Manure Storage Tanks: Towards the Identification of the Active Microorganisms.", 111th General Meeting of American Society for Microbiology (ASM2011), New Orleans, LA, USA, May 21-24, 2011.

Brousseau, J.P., Beaudoin, F., Lauzon, K., Talbot, G., Roy, D., and Lessard, M. (2011). "Effets de *Pediococcus acidilactici* et *Saccharomyces cerevisiae boulardii* sur le microbiote de l'iléon et du côlon chez le porcelet sevré.", 4e Symposium Annuel du Centre de Recherche en Infectiologie Porcine (CRIP), Université de Montréal, Saint-Hyacinthe, QC, Canada, May 30-31, 2011. (Abstract)

Barret, M., Neufeld, J.D., Gagnon, N., Kalmokoff, M.L., Topp, E., Verastegui, Y., and Talbot, G. (2011). "Active methanogens in swine manure storage tanks revealed by stable isotope probing.", Canadian Society of Microbiologists (CSM) 61st Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Memorial University of Newfoundland, St. John's, NL, Canada, June 20-23, 2011, Abstract AE74. (Abstract)

Barret, M., Neufeld, J.D., Gagnon, N., Kalmokoff, M.L., Topp, E., Verastegui, Y., and Talbot, G. (2011). "Identification of the active methanogens in swine manure storage tanks by DNA Stable Isotope Probing.", 1er Symposium du Centre de recherche et de développement sur le bovin laitier et le porc: Parlons science au CRDBLP! / 1st Symposium of the Dairy and Swine Research and Development Centre: Let's Talk Science at the DSRDC!, Sherbrooke, QC, Canada, June 7, 2011.

Talbot, G., Barret, M., Massé, D.I., Masse, L., Kalmokoff, M.L., and Topp, E. (2011). "Methanogenesis in dairy and swine production.", 1er Symposium du Centre de recherche et de développement sur le bovin laitier et le porc: Parlons science au CRDBLP! / 1st Symposium of the Dairy and Swine Research and Development Centre: Let's Talk Science at the DSRDC!, Sherbrooke, QC, Canada, June 7, 2011.

2010

Gagnon, N., Topp, E., Kalmokoff, M.L., Masse, L., Massé, D.I., and Talbot, G. (2010). "Novel fingerprint technology to assess the diversity of methanogens.", 13th International Symposium on Microbial Ecology (ISME13), Seattle, WA, USA, August 22-27, 2010. (Abstract)

Massé, D.I., Talbot, G., and Gilbert, Y. (2010). "Is on-farm biogas production the solution for reducing GHG emissions and for developing more sustainable livestock operations?", 4th International Greenhouse Gases and Animal Agriculture Conference (GGAA), Banff Park Lodge, Banff, AB, Canada, October 3-8, 2010. (Abstract)

Talbot, G., Topp, E., Kalmokoff, M.L., Roy, C.S., Brooks, S.P.J., Beaulieu, C., and Massé, D.I. (2010). "Archaeal community analysis along a plug-flow bioreactor treating swine manure.", Canadian Society of Microbiologists (CSM) 60th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Hamilton, ON, Canada, June 14-17, 2010.

2009

Talbot, G., Roy, C.S., Topp, E., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2009). "Anaerobic bacterial population dynamics during glucose and volatile fatty acid degradation.", 5th ASPD Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg, Denmark, May 24-27, 2009, Abstract No. 11024.

Talbot, G., Roy, C.S., Topp, E., Kalmokoff, M.L., Brooks, S.P.J., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2009). "Multivariate analysis of microbial population quantitative data during start-up of a compartmentalized anaerobic bioreactor treating swine manure.", 5th ASPD Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg, Denmark, May 24-27, 2009.

2008

Talbot, G. (2008). "Quantification of trophic bacterial groups by real-time RT-PCR in a Plug-Flow Type Anaerobic Digester Treating Swine Manure.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008.

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Roy, C.S., Talbot, G., Beaulieu, C., and Massé, D.I. (2008). "Les microorganismes responsables des odeurs dans le lisier de porc.", *Porc Québec*, 19(4), pp. 59-61.

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Lessard, M., Gagnon, N., Talbot, G., Ward, P., Roy, D., Dupuis, M., Farnworth, E.R., and Tompkins, T.A. (2007). "Influence of *Pediococcus acidilactici* and *Saccharomyces cerevisiae* boulardii on bacterial communities during the weaning transition period in pigs.", Canadian Society of Microbiologists (CSM) 57th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Université Laval, Québec City, QC, Canada, June 17-20, 2007, A36. (Poster)

Talbot, G., Roy, C.S., Topp, E., Kalmokoff, M.L., Brooks, S.P.J., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2007). "Comparison of swine manure bacterial and archaeal community structure and transcriptional activity by multivariate statistical analysis of ribosomal DNA and RNA fingerprints.", Canadian Society of Microbiologists (CSM) 57th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Université Laval, Québec City, QC, Canada, June 17-20, 2007, A68. (Poster)

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Research Publications:

2014

Yuan, K., Adam, Z., Tambong, J.T., Lévesque, C.A., Chen, W., Lewis, C.T., De Boer, S.H., and Li, X. (2014). "Draft Genome Sequence of *Pectobacterium wasabiae* Strain CFIA1002.", *Genome Announcements*, 2(3: e00214-14). doi : 10.1128/genomeA.00214-14

Adam, Z., Tambong, J.T., Lewis, C.T., Lévesque, C.A., Chen, W., Bromfield, E.S.P., Khan, I.U.H., and Xu, R. (2014). "Draft Genome Sequence of *Pantoea ananatis* Strain LMG 2665T, a Bacterial Pathogen of Pineapple Fruitlets.", *Genome Announcements*, 2(3: e00489-14). doi : 10.1128/genomeA.00489-14

Tambong, J.T., Xu, R., Sadiku, A., Chen, Q., and Yu, Q. (2014). "Molecular detection and analysis of a novel metalloprotease gene of entomopathogenic *Serratia marcescens* strains in infected *Galleria mellonella*.", *Canadian Journal of Microbiology*. doi : 10.1139/cjm-2013-0864

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Adam, Z., Tambong, J.T., Chen, Q., Lewis, C.T., Lévesque, C.A., and Xu, R. (2014). "Draft Genome Sequence of *Pseudomonas* sp. 2-92, a biological control strain isolated from a field plot under long-term mineral fertilization.", *Genome Announcements*, 2(1: e01121-13). doi : 10.1128/genomeA.01121-13

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Other Science Related Publications:

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Adam, Z., Whiteduck-Leveillee, K., Cloutier, M., Tambong, J.T., Chen, W., Lewis, C.T., Lévesque, C.A., Topp, E., Lapen, D.R., Talbot, G., and Khan, I.U.H. (2014). "Draft genome sequences of three *Arcobacter* strains of pig and dairy cattle manure origin.", *Genome Announcements*, 2(3:e00377-14). doi : 10.1128/genomeA.00377-14

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Whiteduck-Leveillee, K., Whiteduck-Leveillee, J., Kaneza, C.A., Laprade, N., Topp, E., Guylaine, T., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Development of genus-specific PCR assay for rapid identification of *Arcobacter* species: Optimization of PCR Primers and Conditions, and Restriction Pattern Analysis.", Canadian Society of Microbiologists (CSM) 63rd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Ottawa, ON, Canada, June 17-20, 2013.

Léveillé, K., Laprade, N., Léveillé, W.J., Topp, E., Lapen, D.R., Tambong, J.T., Talbot, G., Wilkes, G.A., and Khan, I.U.H. (2013). "Antimicrobial resistance profiling of *Arcobacter butzleri* isolates from faecal sources and an agricultural watershed.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013, Abstract AE87.

Léveillé, W.J., Kaneza, C.A., Léveillé, K., Talbot, G., Topp, E., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Optimization of multiplex PCR assays for the detection of virulence genes in *Arcobacter* species isolated from fecal samples.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013.

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Kaneza, C.A., Whiteduck-Leveillee, K., Whiteduck-Leveillee, J., Laprade, N., Topp, E., Guylaine, T., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Identification and detection of *Arcobacter* spp. From water and fecal matter using genus and species-specific PCR assays.", La Cité Collégiale, Ottawa, ON, Canada, April 26, 2013.

Kaneza, C.A., Whiteduck-Leveillee, K., Whiteduck-Leveillee, J., Laprade, N., Topp, E., Guylaine, T., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Identification and detection of *Arcobacter* spp. from water and fecal matter using genus and species-specific PCR assays.", La Cité Collégiale, Ottawa, ON, Canada, April 26, 2013. (Poster)

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Whiteduck-Leveillee, J., Whiteduck-Leveillee, K., Kaneza, C.A., Cloutier, M., Laprade, N., Topp, E., Guylaine, T., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Multiplex PCR assay for the detection and identification of virulent genes in *Arcobacter* species.", Canadian Society of Microbiologists (CSM) 63rd Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Ottawa, ON, Canada, June 17-20, 2013.

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Research Publications:

2014

Drury, C.F., Tan, C.S., Welacky, T.W., Reynolds, W.D., Zhang, T.Q., Oloya, T.O., McLaughlin, N.B., and Gaynor, J.D. (2014). "Reducing nitrate loss in tile drainage water with cover crops and water-table management systems.", *Journal of Environmental Quality*, 43(2), pp. 587-598. doi : 10.2134/jeq2012.0495

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Other Science Related Publications:

2013

Herath, A., Zhang, T.Q., Tan, C.S., Hamel, C., Bittman, S., Parkin, G.W., and Goss, M.J. (2013). "Development of a soil test for prediction of long-term potential for phosphorus loss in typical Canadian soils.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.

Hao, X.J., Zhang, T.Q., Tan, C.S., Welacky, T.W., and Hong, J.P. (2013). "Cumulative contributions of various forms of swine manure to soil test phosphorus in a clay loam soil under long-term corn-soybean.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Lu, C., Qi, Z., Prasher, S.O., Tan, C.S., and Zhang, T.Q. (2013). "Modeling surface runoff and subsurface drainage in a corn and soybean rotation field in southern Ontario using RZWQM2.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013.

- Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Effectiveness of Organic and Inorganic Fertilizers on Water Quality and Crop Production under Free Drainage and Water Table Control Systems.", International Interdisciplinary Conference on Land and Water Quality, The Hague, The Netherlands, June 9-13, 2013.
- Tan, C.S. and Zhang, T.Q. (2013). "Sustainable Agriculture-Soil-Crop-Water management Programs at Harrow Research Centre-AAFC.", Department of Earth & Environmental Science, University of Windsor, April 19, 2013. (Presentation)
- Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Water discharge and nitrogen loss in response to phosphorus draw down in high P soils.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)
- Tan, C.S. and Zhang, T.Q. (2013). "Drain water discharge and nitrogen losses in response to tile drain spacing and depth in Southern Ontario.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.
- Zhang, T.Q., Zheng, Z.M., Wen, G., Kessel, C., Tan, C.S., and O'Halloran, I.P. (2013). "Agronomic and environmental soil phosphorus testing for organic (muck) soils.", The 2nd Biennial Lake Simcoe Science Forum, October 29-30, 2013.
- Zhang, T.Q. and Tan, C.S. (2013). "Agri-Water Quality Monitoring, Data Collection, and Interpretation at the Plot and Field Scales in Past 20 Years: Observations, Lessons, and Challenges.", Bi-National Workshop on Sharing Agricultural Science, Technology and Data to Improve Great Lakes Water Quality, London, Ontario, Canada, June 13-14, 2013.
- Tan, C.S. and Zhang, T.Q. (2013). "Effect of tile drain depth and spacing on phosphorus losses under corn and soybean rotation.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)
- Zhang, T.Q., Tan, C.S., and Zheng, Z.M. (2013). "Development of Soil Tests as Risk Indicators for Phosphorus Losses from Agricultural Soils in Canada.", 20th International Conference on Environmental Indicators, Trier, Germany.
- Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2013). "Agronomic and environmental evaluation of soil phosphorus with continuous draw-down.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)
- Tan, C.S. and Zhang, T.Q. (2013). "Effect of tile drain depth and spacing on nitrogen losses under corn and soybean rotation.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013.
- Zhang, T.Q., Tan, C.S., Welacky, T.W., and Zheng, Z.M. (2013). "Soil phosphorus losses in surface runoff and tile drainage as related to P-based addition of various forms of cattle manure and chemical fertilizer. Future Agriculture with Minimized Phosphorus Losses to Waters.", 7th International Phosphorus Workshop (IPW7), Uppsala, Sweden, September 9-13, 2013, pp. 160.
- Zhang, T.Q., Tan, C.S., Welacky, T.W., Reynolds, C.K., and Drury, C.F. (2013). Phosphorus cycling in agro-eco-systems and development for risk assessment tools and BMPs to improve water quality while maximizing crop productivity. AAFC, NOI-292 Project final report. (Report)
- Herath, A., Zhang, T.Q., Tan, C.S., Hamel, C., Welacky, T.W., Parkin, G.W., Goss, M.J., and O'Halloran, I.P. (2013). "Effects of liquid, solid and compost swine manure on soil phosphorus fractions in a clay loam soil under corn-soybean rotation.", CSSS Annual Meeting, AB, Canada.
- Tan, C.S. and Zhang, T.Q. (2013). "Use of water table management and water recycling system to reduce the negative impacts of climate change on field crop production and water Quality.", International Interdisciplinary Conference on Land and Water Quality, The Hague, The Netherlands, June 9-13, 2013.
- Zhang, T.Q., Tan, C.S., Welacky, T.W., and Reynolds, C.K. (2013). Managing Phosphorus and Water in Soils Amended with Long-term Continuous Additions of Animal Manures and Inorganic Fertilizers to Increase Crop Use Efficiency and Reduce Adverse Impacts on Water Quality In the Great Lakes Region. AAFC, Project 2588 annual report. (Report)
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Zhang, T.Q. and Tan, C.S. (2009). "Long-term chemical behaviour and fate of phosphorus in agricultural soils.", Chinese Academy of Agricultural Science, Beijing, China, May 9, 2009. (Presentation)

Tan, C.S., Zhang, T.Q., Drury, C.F., Reynolds, W.D., Oloya, T.O., and Gaynor, J.D. (2009). "Effect of controlled drainage/sub-irrigation and water recycling on water quality and crop production.", Great Lakes Phosphorus Forum with SERA-17 Annual Meeting, Hilton Hotel and St. Clair Centre, Windsor, ON, Canada, July 28-31, 2009. (Poster)

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Zhang, T.Q., Tan, C.S., Ma, B.-L., Drury, C.F., Reynolds, W.D., and Gaynor, J.D. (2009). "Effects of Compost Addition on Soil Phosphorus Losses in Tile Drainage Water under Long-term Conventional Tillage and No-tillage.", Great Lakes Phosphorus Forum with SERA-17 Annual Meeting, Hilton Hotel and St. Clair Centre, Windsor, ON, Canada, July 28-31, 2009. (Poster)

Yang, X.M., Drury, C.F., Reynolds, W.D., Yang, J.Y., Tan, C.S., Zhang, T.Q., and Fox, C.A. (2009). "Soil Organic Carbon Sequestration Research at AAFC-Harrow.", Canada-China Soil and Eco-Environment Cooperative Management Workshop, Shenyang City, Liaoning Province, China, May 5-7, 2009. (Presentation)

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Zhang, T.Q. and Tan, C.S. (2008). Optimizing application of phosphorus and potassium to processing tomatoes under drip irrigation to maximize quality and yield while minimizing adverse impacts on water quality. 3rd year annual progress report to International Plant Nutrition Institute, Ontario Processing Vegetable Growers, Ontario Business Association, A&L Canada Laboratory., AAFC Greenhouse and Processing Crops Research Centre, Harrow, ON. (Report)

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Zhang, T.Q., Drury, C.F., Tan, C.S., and Reynolds, W.D. (2007). "Effects of long-term (47 years) consistent fertilization and crop rotation on feed and diet productivity and quality.", 9th International Conference of Biogeochemistry of Trace Elements, Beijing, China, July 15-19, 2007.

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Research Publications:

2014

Legge, W.G., Tucker, J.R., Fetch Jr., T.G., Haber, S.M., Menzies, J.G., Tekauz, A., Turkington, T.K., and Savard, M.E. (2014). "AAC Synergy barley.", *Canadian Journal of Plant Science*, 94. doi : 10.4141/cjps2013-307

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Other Science Related Publications:

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Akhavan, A., Turkington, T.K., Kebede, B., Strelkov, I.S., Xi, K., Kumar, K., Tekauz, A., Kutcher, H.R., Tucker, J.R., Kirkham, C., Dunfield, K.E., and Strelkov, S.E. (2013). "Etiology of *Pyrenophora teres* forms causing intermediate symptoms of net blotch in barley fields on the Prairies.", 84th Annual Meeting of the Canadian Phytopathological Society, Edmonton, AB, Canada, June 16-19, 2013, Received 2013 Canadian Phytopathological Society Best Student Poster Presentation Award. (Poster)

Akhavan, A., Turkington, T.K., Kebede, B., Tekauz, A., Xi, K., Kutcher, H.R., Tucker, J.R., Kirkham, C., Kumar, K., Rennie, D.C., and Strelkov, S.E. (2013). "Genetic diversity of the spot form of the net blotch pathogen of barley (*Pyrenophora teres* f. *maculata*) on the Canadian Prairies as revealed by simple sequence repeats analysis.", 34th Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013, Received 2013 Plant Pathology Society of Alberta Best Student Poster Presentation Award. (Poster)

Akhavan, A., Turkington, T.K., Kebede, B., Tekauz, A., Xi, K., Kutcher, H.R., Tucker, J.R., Kirkham, C., Kumar, K., Rennie, D.C., and Strelkov, S.E. (2013). "Assessing the nature and variability of the barley net blotch pathogen on the Canadian Prairies and the ability to adapt to host resistance and fungicides.", 2nd Annual General Meeting of the Alberta Barley Commission, Banff, AB, Canada, December 4-6, 2013, Received 2013 Alberta Barley Commission 2nd Place Student Poster Competition. (Poster)

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Gilbert, J., Tekauz, A., Slusarenko, K., LeClerc, C.E., Kucas, L., Stulzer, M., and Beyene, M. (2012). "2011 Survey for leaf spot diseases of spring wheat in Manitoba.", *Canadian Plant Disease Survey*, 92, pp. 108.

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Tekauz, A., Stulzer, M., Beyene, M., Dupriez, M., Harris, A., and Le-Ba, N. (2012). "Barley leaf spot diseases in 2011 in Manitoba.", *Canadian Plant Disease Survey*, 92, pp. 69-70.

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Research Publications:

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Research Publications:

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Research Publications:

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Research Publications:

2014

Kim, K.-S., Tinker, N.A., and Newell, M.A. (2014). "Improvement of Oat as a Winter Forage Crop in the Southern United States.", *Crop Science*, 54, pp. 1-11. doi : 10.2135/cropsci2013.07.0505

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Fung, S., Rempel, H., Forgetta, V., Dewar, K., Topp, E., and Diarra, M.S. (2013). "Ceca Microbiome of Mature Broiler Chickens Fed with or without Salinomycin.", Keystone Symposium: The Gut Microbiome: The Effector/Regulatory Immune Network (B3), Taos, NM, USA, February 10-15, 2013.

Léveillé, W.J., Kaneza, C.A., Léveillé, K., Talbot, G., Topp, E., Lapen, D.R., Tambong, J.T., Lévesque, C.A., and Khan, I.U.H. (2013). "Optimization of a genus-specific PCR assay and restriction fragment length polymorphism (RFLP) analysis for rapid detection.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013, Abstract AE88.

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Talbot, G., Barret, M., Gagnon, N., and Topp, E. (2013). "Use of specific methanogen inhibitors and molecular analyses to elucidate biochemical pathways of methanogenesis in swine manure.", 63rd Annual Conference of the Canadian Society of Microbiologists, Carleton University, Ottawa, ON, Canada, June 17-20, 2013. (Abstract)

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Jokinen, C.C., Mutschall, S.K., Ross, S.L., Buchanan, C., Kindt, A., Koning, W., Miller, J.J., Edge, T.A., Topp, E., Thomas, J.E., Gannon, V.P.J., and Taboada, E.N. (2011). "Application of comparative genomics-based genotyping to the molecular epidemiology of *Campylobacter jejuni* from the Oldman River watershed in southern Alberta, Canada.", 15th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, December 6, 2011. (Presentation)

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Thomas, M.C., Selinger, L.B., Topp, E., and Inglis, G.D. (2010). "Seasonal distribution of planktonic protists in southwestern Alberta.", Oldman Watershed Science Form, University of Lethbridge, Lethbridge, AB, Canada, October 20, 2010, Invited Speaker.

Inglis, G.D., Thomas, M.C., Selinger, L.B., Taboada, E.N., Boras, V.F., Koning, C.W., and Topp, E. (2010). "The role of water in the epidemiology of campylobacteriosis in southwestern Alberta.", Oldman Watershed Science Form, University of Lethbridge, Lethbridge, AB, Canada, October 20, 2010, Invited Speaker.

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Rempel, H., Champagne, J., Masson, L., Pritchard, J., Topp, E., and Diarra, M.S. (2010). "DNA-Microarray for Molecular Characterization of *Enterococcus* isolates from broiler chicken.", 110th General Meeting of American Society for Microbiology (ASM2010), Town & Country Convention Center, San Diego, CA, USA, May 23-27, 2010. (Poster)

Topp, E. (2010). "Drugs in Sludge Assessing the risk when municipal biosolids are recycled onto agricultural land.", University of Toronto Centre for Environment, Toronto, ON, Canada, March 4, 2010. (Presentation)

Topp, E. (2010). "Distribution and dynamics of pathogenic and antibiotic-resistant enteric microorganisms at the farm and the watershed scale.", University of Guelph Veterinary School, Dept. of Pathobiology, Guelph, ON, Canada, May 7, 2010. (Presentation)

Gottschall, N., Edwards, M., Topp, E., Bolton, P., Payne, M., Curnoe, W.E., Ball Coelho, B.R., and Lapen, D.R. (2010). "Nitrogen, Phosphorus, and Bacteria Tile and Groundwater Quality Following Direct Injection of Dewatered Municipal Biosolids into Soil [Journal of Environmental Quality, 38(4), pp. 1783-1783] (Erratum No. 2).", *Journal of Environmental Quality*, 39(2), pp. 433.

Topp, E. (2010). "Drugs in Sludge: Fate Following Application to Agricultural Land.", Special symposium on pharmaceuticals and the environment SETAC-Europe Pharmaceuticals Advisory Group, Seville, Spain, May 23, 2010, Invited talk.

Topp, E., van Bochove, É., Edge, T.A., Flemming, C.A., Gannon, V.P.J., and Lanthier, M. (2010). "Fecal contamination in mixed activity watersheds: Developments in human risk assessment and risk management.", 14th IWA International Conference on Diffuse Pollution and Eutrophication, Beaupré, QC, Canada, September 12-17, 2010, Keynote speaker.

Ruecker, N.J., Wilkes, G.A., Lapen, D.R., Topp, E., Edge, T.A., and Neumann, N.F. (2010). "Investigating the association between land use and cryptosporidium occurrence in the south nation watershed in eastern Ontario, Canada.", International Symposium on Waterborne Pathogens 2010, Manhattan Beach, CA, USA, May 2-4, 2010.

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Topp, E. (2010). "Drugs in Sludge Assessing the risk when municipal biosolids are recycled onto agricultural land.", Institute of Environment and Health, McMaster University, Hamilton, ON, Canada, October 28, 2010. (Presentation)

Parrott, J., McLaughlin, A., Lapen, D.R., and Topp, E. (2010). "Environmental risk assessment of pharmaceuticals.", in Kaputka, L.A. and Landis, W.G. (eds.) *Environmental Risk Assessment and Management from a Landscape Perspective*, John Wiley & Sons, Ltd, pp. 329-346.

Sunohara, M., Youssef, M.A., Topp, E., and Lapen, D.R. (2010). "Measured effect of agricultural drainage water management on hydrology, water quality, and crop yield.", Canadian Society for Bioengineering CSBE/SCGAB and CIGR jointly held 9th International Drainage Symposium, Québec City Convention Centre, Québec City, QC, Canada, June 13-16, 2010, Paper No. 711P0610e, pp. 392-401.

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van Bochove, É., Topp, E., Thériault, G., Denault, J.-T., Allaire, S.E., Dechmi, F., and Rousseau, A.N. (2010). "Coliforms.", in Eilers, W., MacKay, R., Graham, L., and Lefebvre, A. (eds.) *Environmental Sustainability of Canadian Agriculture: Agri-Environmental Indicator Report Series. Report #3//L'agriculture écologiquement durable au Canada : Série sur les indicateurs agroenvironnementaux Rapport n° 3*, Agriculture and Agri-Food Canada (AAFC)/Agriculture et Agroalimentaire Canada (AAC), Chapter 14, pp. 94-100.

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Lanthier, M., Lapen, D.R., Cloutier, M., Goulet, B., Nossova, N., and Topp, E. (2009). "Isolation and Characterization of *Arcobacter* spp. From the South Nation Watershed, Ontario, Canada.", Canadian Society of Microbiologists (CSM) 59th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Concordia University, Montréal, QC, Canada, June 15-18, 2009, Abstract AE37. (Abstract)

Topp, E., Ruecker, N.J., Wilkes, G.A., Lapen, D.R., and Neumann, N.F. (2009). "Faune et contamination des sources d'eau par *Cryptosporidium* et *Giardia*.", 22e Entretiens du Centre Jacques Cartier, École Nationale Vétérinaire de Lyon, Lyon, France, November 28-December 2, 2011, Invited talk.

Gottschall, N., Edwards, M., Topp, E., Bolton, J.M., Payne, M., Kleywegt, S., Curnoe, W.E., Ball Coelho, B.R., and Lapen, D.R. (2009). "Nitrogen, Phosphorus, and Bacteria Tile and Groundwater Quality Following Direct Injection of Dewatered Municipal Biosolids into Soil [Journal of Environmental Quality, 38(4), pp. 1783-1783] (Erratum).", *Journal of Environmental Quality*, 38(4), pp. 1783.

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Frey, S.K., Rudolph, D.R., Lapen, D.R., Ball Coelho, B.R., and Topp, E. (2009). "Influence of Liquid Manure Application Methods on the Mobility of Dissolved Nutrient Species in Macroporous and Tile-Drained Soils.", 2009 Ground Water Summit, Hilton Tucson El Conquistador Golf & Tennis Resort, Tucson, AZ, USA, April 21, 2009. (Presentation)

Alexander, T.W., Inglis, G.D., Yanke, L.J., Topp, E., and McAllister, T.A. (2009). "Characterization of antimicrobial-resistant *Escherichia coli* from samples collected throughout processing of feedlot cattle at a commercial abattoir.", ADSA-CSAS-ASAS 2009 Joint Annual Meeting, Montréal Convention Center, Montréal, QC, Canada, July 12-16, 2009. (Poster)

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Lanthier, M., Lapen, D.R., Cloutier, M., Nossova, N., and Topp, E. (2009). "Isolation and Characterization of *Arcobacter* spp. From the South Nation Watershed, Ontario, Canada.", 109th General Meeting of American Society for Microbiology, Philadelphia, PA, USA, May 17-21, 2009, Abstract Q170. (Abstract)

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Talbot, G., Roy, C.S., Topp, E., Kalmokoff, M.L., Brooks, S.P.J., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2009). "Multivariate analysis of microbial population quantitative data during start-up of a compartmentalized anaerobic bioreactor treating swine manure.", 5th ASPD Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg, Denmark, May 24-27, 2009.

Sabourin, L., Beck, A., Duenk, P.W., Kleywegt, S., Lapen, D.R., Li, H.X., Metcalfe, C.D., Payne, M., and Topp, E. (2009). "Runoff of pharmaceuticals and personal care products following application of dewatered municipal biosolids to an agricultural field [Science of the Total Environment 407 (2009) 4596-4604] (Erratum).", *Science of the Total Environment*, 407(22), pp. 5928-5930.

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Diarra, M.S., Diarrassouba, F., Rempel, H., Brousseau, R., Masson, L., Bonnet, C., Pritchard, J., Delaquis, P.J., Bach, S.J., Topp, E., and Skura, B.J. (2008). "DNA-microarray analyses of antimicrobial resistance and virulence genes of *Escherichia coli* O7 isolates from healthy broiler chickens.", Joint Meeting of 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC™) and 46th Annual Meeting of the Infectious Diseases Society of America, Washington, DC, USA, October 25-28, 2008. (Abstract)

Edge, T.A., Khan, I.U.H., Gannon, V.P.J., Kent, R., Koning, W., Lapen, D.R., Loughborough, A., Miller, J.J., Neumann, N.F., Phillips, R., Robertson, W., Schreier, H., Topp, E., and van Bochove, É. (2008). "National Agri-Environmental Standards Initiative: Occurrence of *Campylobacter* species and other waterborne pathogens in agricultural watersheds across Canada (2005-07).", 2008 Canadian *Campylobacter* Conference, Intercontinental Hotel, Montréal, QC, Canada, September 25-26, 2008, C05, pp. 54.

Metcalfe, C.D., Alder, A.C., Halling-Sørensen, B., Krogh, K., Fenner, K., Larsbo, M., Straub, J.O., Ternes, T.A., Topp, E., Lapen, D.R., and Boxall, A.B.A. (2008). "Exposure assessment methods for veterinary and human use medicines in the environment: PEC vs MEC comparisons.", in Kümmerer, K. (ed.) *Pharmaceuticals in the Environment: Sources, Fate, Effects and Risks*. 3rd Edition, Springer Berlin / Heidelberg, pp. 147-171.

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Lawrence, J.R., Topp, E., Swerhone, G.D.W., and Korber, D.R. (2008). "Effect of timing and exposure period to on the development of triclosan treated river biofilm communities.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008.

Khan, I.U.H., Gannon, V.P.J., Kent, R., Lapen, D.R., Miller, J.J., Neumann, N.F., Phillips, R., Robertson, W.M., Topp, E., van Bochove, É., and Edge, T.A. (2008). "Seasonal and spatial prevalence of thermophilic *Campylobacter*s in four agriculture watersheds across Canada.", 108th General Meeting of American Society for Microbiology, Boston, MA, USA, June 1-5, 2008.

Talbot, G., Roy, C.S., Topp, E., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2008). "Distribution of Trophic Bacterial Groups in a Plug-Flow Type Anaerobic Bioreactor Fed with Swine Manure Using Real-Time RT-PCR Analyses.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008.

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Yanke, L.J., McAllister, T.A., Selinger, L.B., and Topp, E. (2008). "Identification of the predominant *Enterococcus* spp. in beef cattle faeces.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008, Abstract A67, pp. 69. (Abstract)

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Lanthier, M., Lapen, D.R., Cloutier, M., Henderson, V.C., Durie, D., and Topp, E. (2008). "Characterisation of *Enterococcus* spp. Isolates From the South Nation Watershed, Ontario, Canada.", Canadian Society of Microbiologists (CSM) 58th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), University of Calgary, Calgary, AB, Canada, June 9-12, 2008, Abstract A29.

Topp, E., Lapen, D.R., Metcalfe, C.D., Monteiro, S.C., Boxall, A.B.A., Duenk, P.W., Al-Rajab, A.J., and Payne, M. (2008). "Contrasting the fate of selected PPCPs in soils following application of biosolids slurry or dewatered biosolids.", Society of Environmental Toxicology and Chemistry (SETAC) Europe 18th Annual Meeting, Palace of Culture and Science Congress Centre, Warsaw, Poland, May 25-29, 2008.

Topp, E., Al-Rajab, A.J., Sabourin, L., Gacek, T., Lapen, D.R., Beck, A., Li, H., and Metcalfe, C.D. (2008). "Fate of pharmaceuticals and personal care products following land application of liquid municipal biosolids.", 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Tampa Convention Center, Tampa, FL, USA, November 16-20, 2008.

Ruecker, N.J., Wilkes, G.A., Topp, E., Edge, T.A., Lapen, D.R., and Neumann, N.F. (2008). "Identifying Mechanisms Associated with Spatial and Temporal Variation in *Cryptosporidium* Occurrence in the South Nation River Basin.", American Water Works Association (AWWA) Water Quality Technology Conference and Exposition 2008, Cincinnati, OH, USA, November 16-20, 2008, Paper No. AWWA WQTC69508, pp. 3724-3733.

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Lanthier, M., Tien, Y.C., Lapen, D.R., Edge, T.A., Robertson, W.J., Medeiros, D.T., Gannon, V.P.J., and Topp, E. (2007). "Incidence of Emerging Waterborne Pathogens in Fecal Samples of Animal Origins, Biosolids from Water Treatment Plants and Water Samples from the South Nation River, ON, Canada.", Canadian Society of Microbiologists (CSM) 57th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Université Laval, Québec City, QC, Canada, June 17-20, 2007, A36.

Ruecker, N.J., Topp, E., Edge, T.A., Lapen, D.R., van Bochove, É., Schreier, H., Koning, W., Miller, J.J., Kha, I.U.H., Gannon, V.P.J., Sensen, C.W., and Neumann, N.F. (2007). "Molecular forensic profiling of *cryptosporidium* spp to determine the diversity of fecal contamination in four canadian watersheds", American Water Works Association (AWWA) Water Quality Technology Conference and Exposition 2007: Fast Tracks to Water Quality, Charlotte, NC, USA, November 4-8, 2007, Paper No. AWWA WQTC94634, pp. 2536-2547.

Thibodeau, A., Quessy, S., Guévremont, É., Topp, E., Diarra, M.S., and Letellier, A. (2007). "Antibiotic resistance in *Escherichia coli* and *Enterococcus* spp. obtained from commercial broiler chickens receiving growth-promoting doses of bacitracin or virginiamycin.", 107th Annual General Meeting of the American Society for Microbiology, Toronto, ON, Canada, May 21-25, 2007.

Bittman, S., Chipperfield, K., Hunt, D.E., Diarra, M.S., Topp, E., and Asman, W.A.H. (2007). "Using Trees to Reduce Dispersion of Airborne Particles from Ventilated Poultry Housing.", Agroforestry in Agricultural Production Systems (AAPS): Greencover program Wrap up Meeting, Regina, SK, Canada, March 13, 2007.

Lanthier, M., Tien, Y.C., Topp, E., and Lapen, D.R. (2007). "Incidence of Emerging Waterborne Pathogens in Fecal Samples of Animal Origins and Biosolids from Water Treatment Plants.", 107th Annual General Meeting of the American Society for Microbiology, Toronto, ON, Canada, May 21-25, 2007, Abstract Q-284.

Talbot, G., Roy, C.S., Topp, E., Kalmokoff, M.L., Brooks, S.P.J., Beaulieu, C., Palin, M.-F., and Massé, D.I. (2007). "Comparison of swine manure bacterial and archaeal community structure and transcriptional activity by multivariate statistical analysis of ribosomal DNA and RNA fingerprints.", Canadian Society of Microbiologists (CSM) 57th Annual Conference / Conférence annuelle de la Société Canadienne des Microbiologistes (SCM), Université Laval, Québec City, QC, Canada, June 17-20, 2007, A68. (Poster)

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Research Publications:

2014

Bovey, K., Widowski, T.M., Dewey, C., Devillers, N., Farmer, C., Lessard, M., and Torrey, S. (2014). "The effect of birth weight and age on the behavioral and physiological responses of piglets to tail docking and ear notching.", *Journal of Animal Science*, 92(4), pp. 1718-1727. doi : 10.2527/jas.2013-7063

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Correa, J.A., Torrey, S., Devillers, N., LaForest, J.-P., Gonyou, H.W., and Faucitano, L. (2010). "Effects of different moving devices at loading on stress response and meat quality in pigs.", *Journal of Animal Science*, 88, pp. 4086-4093. doi : 10.2527/jas.2010-2833

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Torrey, S., Devillers, N., Lessard, M., Farmer, C., and Widowski, T.M. (2009). "Effect of age on the behavioral and physiological responses of piglets to tail docking and ear notching.", *Journal of Animal Science*, 87(5), pp. 1778-1786. doi : 10.2527/jas.2008-1354

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Torrey, S., Toth Tamminga, E.L.M., and Widowski, T.M. (2008). "Effect of drinker type on water intake and waste in newly-weaned piglets.", *Journal of Animal Science*, 86(6), pp. 1439-1445. doi : 10.2527/jas.2007-0632

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Other Science Related Publications:

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Nannoni, E., Widowski, T.M., Torrey, S., Fox, J., Rocha, L.M., Brown, J.A., Gonyou, H.W., Weschenfelder, A.V., Crowe, T.G., and Faucitano, L. (2012). "The effect of water sprinkling on blood lactate and meat quality of market hogs transported during summer.", 58th International Congress of Meat Science and Technology (ICoMST), Hilton Montréal Bonaventure, Montréal, QC, Canada, August 12-17, 2012.

Ringgenberg, N., Torrey, S., Bergeron, R., and Devillers, N. (2012). "Impacts of prenatal stress and environmental enrichment during lactation on the behaviour and performances of piglets after weaning.", 46th Congress of the International Society for Applied Ethology, Vienna, Austria, July 31-August 4, 2012, pp. 11.

Fox, J., Widowski, T.M., Torrey, S., Nannoni, E., Bergeron, R., Gonyou, H.W., Brown, J.A., Crowe, T.G., and Faucitano, L. (2012). "The effect of water sprinkling on behavior and core body temperature of market hogs transported during summer.", ADSA-AMPA-ASAS-CSAS-WSASAS 2012 Joint Annual Meeting, Hyatt Regency, Phoenix, AZ, USA, July 15-19, 2012, #T9, Published in: *J. Anim. Sci.*, 90 (Suppl. 3), 255. (Poster)

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Brown, J.A., Crowe, T.G., Torrey, S., Bergeron, R., Widowski, T.M., Correa, J.A., and Faucitano, L. (2011). "Relationships between transport temperatures, pig behaviour, blood stress indicators and meat quality.", 5th International Conference on the Assessment of Animal Welfare at Farm and Group Level, University of Guelph, Guelph, ON, Canada, August 8-11, 2011, pp. 18. (Abstract)

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Faucitano, L., Devillers, N., Torrey, S., and Bastien, D. (2010). "Animal welfare: A matter of ethics, economy and taste.", *AgriCulture*, 2010(Spring), pp. 10-11.

Bovey, K., Devillers, N., Lessard, M., Farmer, C., Dewey, C., Widowski, T.M., and Torrey, S. (2010). "The effect of birth weight and age on the behavioural and physiological responses of piglets to tail docking and ear notching.", 44th Congress of the International Society for Applied Ethology, University of Agricultural Sciences, Uppsala, Sweden, August 4-7, 2010, pp. 34.

Weschenfelder, A.V., Torrey, S., Devillers, N., Saucier, L., and Faucitano, L. (2010). "Effects of vehicle design on blood stress indicators and meat quality in pigs of three genotypes for two different travel distances.", ADSA-PSA-AMPA-CSAS-ASAS 2010 Joint Annual Meeting, Denver, CO, USA, July 11-15, 2010.

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Hayne, S., Samarakone, T.S., Crowe, T.G., Torrey, S., Bergeron, R., Widowski, T.M., Lewis, N., Dewey, C., Faucitano, L., and Gonyou, H.W. (2009). "Variation in temperature within trucks transporting pigs during two seasons in two locations.", 38th Banff Pork Seminar: Bringing Back Profitability, Banff, AB, Canada, January 20-23, 2009, Advances in Pork Production, Volume 20, Abstract #18. (Abstract)

Ringgenberg, N., Bergeron, R., Torrey, S., Meunier-Salaün, M.-C., and Devillers, N. (2009). "Compensatory effect of housing enrichment in maternity on the consequences of a prenatal stress on piglet behaviours.", 9th International Society for Applied Ethology (ISAE) North-American Regional Meeting, McGill University, Montréal, QC, Canada, July 17-18, 2009, pp. 45.

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Research Publications:

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Tosh, S.M. (2014). "Influence of food processing on human glycemic response to oat products.", 247th American Chemical Society National Meeting, Dallas, TX, USA, March 16-20, 2014. (Abstract)

2013

Ames, N.P. and Tosh, S.M. (2013). "Effect of processing on physicochemical properties and efficacy of oat and barley beta-glucan.", 2013 International Annual Meeting of the American Association of Cereal Chemists (AACCC), Albuquerque, NM, USA, September 29-October 2, 2013, Published in: *Supplement Cereal Food World*, 58(4) A52-S. (Abstract)

Tosh, S.M., Farnworth, E.R., Brummer, Y., Duncan, A.M., Wright, A.J., Boye, J.I., Marcotte, M., and Benali, M. (2013). "Nutritional profile and carbohydrate characterization of spray-dried lentil, pea and chickpea ingredients.", *Foods: Bioactives, Processing, Quality and Nutrition*, April 10-12, 2013. (Abstract)

Tosh, S.M., Farnworth, E.R., Brummer, Y., Duncan, A.M., Wright, A.J., Boye, J.I., Marcotte, M., and Benali, M. (2013). "Nutritional profile and carbohydrate characterization of spray-dried lentil, pea and chickpea ingredients.", *Foods: Bioactives, Processing, Quality and Nutrition*, April 10-12, 2013, <http://sciforum.net/conf/bpqn2013>. (Electronic Conference). Published online: <http://sciforum.net/user/submission/1184>. (Abstract)

Wang, Y., Thandapilly, S.J., Harding, S.V., Tosh, S.M., Jones, P.J.H., and Ames, N.P. (2013). "Barley β -Glucan Consumption Decreases Serum Cholesterol Levels and Increases 7 α -Hydroxy-4-Cholesten-3-One Levels in Moderately Hypercholesterolemic Adults.", *Experimental Biology* 2013, Boston, MA, USA, April 20-24, 2013.

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Tosh, S.M. (2011). "Mechanisms of Action of Oat β -Glucan in Lowering Blood Glucose and Cholesterol.", Central Experimental Farm, Neatby Building, Ottawa, ON, Canada, June 28, 2011. (Presentation)

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Research Publications:

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Akhavan, A., Turkington, T.K., Kebede, B., Strelkov, I.S., Xi, K., Kumar, K., Tekauz, A., Kutcher, H.R., Tucker, J.R., Kirkham, C., Dunfield, K.E., and Strelkov, S.E. (2013). "Etiology of *Pyrenophora teres* forms causing intermediate symptoms of net blotch in barley fields on the Prairies.", 84th Annual Meeting of the Canadian Phytopathological Society, Edmonton, AB, Canada, June 16-19, 2013, Received 2013 Canadian Phytopathological Society Best Student Poster Presentation Award. (Poster)

Akhavan, A., Turkington, T.K., Kebede, B., Tekauz, A., Xi, K., Kutcher, H.R., Tucker, J.R., Kirkham, C., Kumar, K., Rennie, D.C., and Strelkov, S.E. (2013). "Genetic diversity of the spot form of the net blotch pathogen of barley (*Pyrenophora teres* f. *maculata*) on the Canadian Prairies as revealed by simple sequence repeats analysis.", 34th Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013, Received 2013 Plant Pathology Society of Alberta Best Student Poster Presentation Award. (Poster)

Akhavan, A., Turkington, T.K., Kebede, B., Tekauz, A., Xi, K., Kutcher, H.R., Tucker, J.R., Kirkham, C., Kumar, K., Rennie, D.C., and Strelkov, S.E. (2013). "Assessing the nature and variability of the barley net blotch pathogen on the Canadian Prairies and the ability to adapt to host resistance and fungicides.", 2nd Annual General Meeting of the Alberta Barley Commission, Banff, AB, Canada, December 4-6, 2013, Received 2013 Alberta Barley Commission 2nd Place Student Poster Competition. (Poster)

Akhavan, A., Turkington, T.K., Kebede, B., Tekauz, A., Xi, K., Kutcher, H.R., Tucker, J.R., Kirkham, C., Kumar, K., Rennie, D.C., and Strelkov, S.E. (2013). "Genetic structure of *Pyrenophora teres* f. *teres* (net form net blotch of barley) populations from the Canadian Prairies as revealed by simple sequence repeats analysis.", 34th Annual Meeting of the Plant Pathology Society of Alberta, Brooks, AB, Canada, November 4-6, 2013, oral presentation.

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Turkington, T.K., Kutcher, H.R., Jurke, C., Buchwaldt, L., and McLaren, D.L. (2012). "Managing sclerotinia stem rot of canola.", Webinar, Canola Council of Canada and canola grower's associations (ACPC/SC/MCGA), Canada, June 28, 2012. (Presentation)

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Strelkov, S.E., Hwang, S.F., Howard, R.J., Rahman, H., Kutcher, H.R., Turkington, T.K., Gossen, B.D., Peng, G., McLaren, D.L., LeBoldus, J.M., Feng, J., Cao, T., and Manolii, V.P. (2012). "Clubroot Risk Mitigation Initiative: Pathology Pillar.", Clubroot Summit 2012, Edmonton, AB, Canada, March 6, 2012, Invited presentation.

Peng, G., Fernando, W.G.D., Kirkham, C.L., Lange, R., Kutcher, H.R., McLaren, D.L., Johnson, E.N., and Turkington, T.K. (2012). "Mitigating the risk of blackleg disease of canola using fungicide strategies.", Soils and Crops Workshop 2012, University of Saskatchewan, Saskatoon, SK, Canada, March 13-14, 2012, [CD], 7 pages.

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Turkington, T.K. and O'Donovan, J.T. (2011). "Malt Barley Research Update: The impact of harvest management and seed source", Alberta Barley Commission, Rahr Malting, Inc. and Canadian Wheat Board meeting, Alberta Barley Commission Office, Calgary, AB, Canada, April 19, 2011. (Presentation)

Turkington, T.K., Klein-Gebbinck, H.W., Olfert, O.O., Weiss, L.M., Kriticos, D.J., Kutcher, H.R., Falk, K.C., and Strelkov, S.E. (2011). "Projected distribution and severity of clubroot of canola in the Canadian prairies.", *Phytopathology*, 101(6), pp. S179. (Abstract)

Turkington, T.K. (2011). "Disease forecasting.", Integrated Crop Management (PL SC 495), AFNS Program, University of Alberta, Edmonton, AB, Canada, January 25 and 27, 2011. (Presentation)

Kutcher, H.R., Dokken-Bouchard, F.L., Turkington, T.K., Fernando, W.G.D., Boyetchko, S.M., Buchwaldt, L., Hegedus, D.D., and Parkin, I.A.P. (2011). "Managing sclerotinia stem rot in canola.", Canola Research Summit meeting, Winnipeg, MB, Canada, April 12-13, 2011.

O'Donovan, J.T., Blackshaw, R.E., Grant, C.A., Harker, K.N., Lafond, G.P., Johnson, E.N., Gan, Y.T., May, W.E., Turkington, T.K., and Lupwayi, N.Z. (2011). "Legume Crops to Improve Soil Fertility for Enhanced Canola Production.", 2011 ASA-CSSA-SSSA International Annual Meeting: Fundamental for life: soil, crop and environmental sciences, San Antonio, TX, USA, October 16-19, 2011. (Poster)

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- Turkington, T.K., Kutcher, H.R., Xi, K., Harker, K.N., O'Donovan, J.T., and Johnson, E.N. (2011). "The impact of fungicide and herbicide timing on barley leaf disease severity, weed management and crop productivity.", *Phytopathology*, 101(6), pp. S180. (Abstract)
- Turkington, T.K. (2011). "Canola disease research update.", Alberta Canola Industry Update 2011, Edmonton, AB, Canada, April 6, 2011.
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- Rioux, S., Pouleur, S., Randall, P., Turkington, T.K., Vanasse, A., and Dion, Y. (2011). "La vapeur d'acide acétique et la chaleur sèche comme traitements de semences chez les céréales.", La Journée: Grandes cultures biologiques, Centre communautaire de Saint-Rémi, Saint-Rémi, QC, Canada, December 6, 2011, pp. 17.
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- Klein-Gebbinck, H.W., Turkington, T.K., Olfert, O.O., Weiss, R.M., Kriticos, D.J., Kutcher, H.R., Falk, K.C., and Strelkov, S.E. (2011). "Projected distribution and severity of clubroot of canola in the Canadian prairies under incremental temperature and precipitation, and potential climate change scenarios.", *Climate Change and the Implications for Plant Science: The science, the impacts, and the options*, University of Guelph, Guelph, ON, Canada, June 7-9, 2011.
- Lange, R.M., Platford, R.G., Kutcher, H.R., Hwang, S.F., Howard, R.J., Klein-Gebbinck, H.W., Strelkov, S.E., and Turkington, T.K. (2011). "Survey of blackleg and other canola diseases in Alberta, 2010.", *Canadian Plant Disease Survey*, 91, pp. 112-119.
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- Tucker, J.R., Turkington, T.K., and Legge, W.G. (2011). "Barley genotype interaction with three virulent scald (*Rhynchosporium secalis*) pathotypes from western Canada.", 4th International Workshop on Barley Leaf Blights (IWBLB), West Park Conference Centre, Dundee, Scotland, UK, June 27-29, 2011.
- Kutcher, H.R., Turkington, T.K., Brandt, S.A., Gossen, B.D., McLaren, D.L., Dokken-Bouchard, F.L., and Strelkov, S.E. (2011). "Canola Disease Management.", Annual Indian Head Crop Management Field Day 2011, Indian Head, SK, Canada, July 19, 2011.
- O'Donovan, J.T. and Turkington, T.K. (2011). "Effect of farming practices on malting grade barley and brewhouse performance.", Western Barley Growers Association & Master Brewers Association of the Americas Joint Conference, Deerfoot Inn & Casino, Calgary, AB, Canada, February 16-18, 2011.
- Harker, K.N., Turkington, T.K., O'Donovan, J.T., Kutcher, H.R., and Johnson, E.N. (2011). "Barley Herbicide and Fungicide Tank-Mixtures?", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 24, 2011. (Presentation)
- Kutcher, H.R., Turkington, T.K., Gossen, B.D., Brandt, S.A., Dokken-Bouchard, F.L., and Strelkov, S.E. (2011). "Canola Disease and Fungicide Strategies Based on Crop Rotation.", Strategies for Successful Farming Meeting, Travelodge Hotel, Regina, SK, Canada, March 2, 2011, Invited Presentation and Report Abstract.
- Kutcher, H.R., Turkington, T.K., Gossen, B.D., Brandt, S.A., Dokken-Bouchard, F.L., and Strelkov, S.E. (2011). "Canola Disease and Fungicide Strategies Based on Crop Rotation.", Strategies for Successful Farming Meeting, Travelodge Hotel, Saskatoon, SK, Canada, March 1, 2011, Invited Presentation and Report Abstract.
- Harker, K.N., Turkington, T.K., O'Donovan, J.T., Kutcher, H.R., and Johnson, E.N. (2011). "Barley Herbicide and Fungicide Tank-Mixtures?", Canadian Weed Science Society 65th Annual Meeting, Marriott Gateway on the Falls, Niagara Falls, ON, Canada, November 21-24, 2011, pp. 46. (Abstract)

2010

- Kutcher, H.R., Dokken-Bouchard, F.L., Eynck, C., Turkington, T.K., Gossen, B.D., and Brandt, S.A. (2010). "Pest implications of intensive canola rotations.", Information Update for Ministry of Agriculture crop specialists, U of Saskatchewan, Saskatchewan, SK, Canada, December 16, 2010.

Kutcher, H.R., Eynck, C., Turkington, T.K., Gossen, B.D., and Brandt, S.A. (2010). "Implications of Intensive Canola Rotations.", Canadian Weed Science Society 64th Annual Meeting, Delta Regina, Regina, SK, Canada, November 15-18, 2010, Invited Presentation.

Kutcher, H.R., Eynck, C., Turkington, T.K., Gossen, B.D., and Brandt, S.A. (2010). "Pest implications of intensive canola rotations.", Saskatchewan Plant Disease Committee meeting, Saskatoon, SK, Canada, December 10, 2010.

Kutcher, H.R., Dokken-Bouchard, F.L., Eynck, C., Turkington, T.K., Gossen, B.D., and Brandt, S.A. (2010). "Canola disease management and at bit of barley work.", Manitoba Agronomists 2010 Conference, Winnipeg, MB, Canada, December 14-15, 2010, Invited talk.

Blackshaw, R.E., Brandt, S.A., Johnson, E.N., Harker, K.N., O'Donovan, J.T., Turkington, T.K., and Kutcher, H.R. (2010). "Which crop inputs have the greatest impact on canola yield?", 2010 ASA-CSSA-SSSA International Annual Meeting, Long Beach Convention Center, Long Beach, CA, USA, October 31-November 4, 2010. (Abstract)

Rauhala, N.E. and Turkington, T.K. (2010). "2009 Barley disease survey in Central Alberta.", *Canadian Plant Disease Survey*, 90, pp. 58-59.

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2009

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Research Publications:

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Research Publications:

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Research Publications:

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Research Publications:

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Research Publications:

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Slaski, J.J. and Vera, C.L. (2012). "Northern Adapted Flax Agronomy Program: 2012 annual progress report and summary of the Phase I study to The Saskatchewan Flax Development Commission."

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Vera, C.L., Malhi, S.S., Brandt, S.A., Kapiniak, A., Raney, J.P., Chant, S., and Phelps, S.M. (2007). "Update on various agronomic research projects on hemp.", *2007 Canadian Hemp Trade Alliance National Hemp Conference and Annual General Meeting*, Saskatoon, SK, Canada, November 15-17, 2007.

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Research Publications:

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Vigneault, C. (2012). "Vorkühlungsverfahren. In: M. Geyer, U. Praeger (eds). Lagerung gartenbaulicher Produkte.", in Geyer, M. and Praeger, U. (eds.) Lagerung gartenbaulicher Produkte, Kuratorium für Technik und Bauwesen in der Landwirtschaft, Darmstadt, Germany, Chapter 6, pp. 114-128.

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Vigneault, C., Boutin, J., and Goyette, B. (2011). Manually Handled Collapsible Reusable Plastic Containers. ANSI/ASABE S600 OCT2011., American Society of Agricultural and Biological Engineers (ASABE).

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Goyette, B., Vigneault, C., and Raghavan, G.S.V. (2010). "Hyperbaric treatment: a potential solution for physical stress uniformity.", 2010 Canadian Institute of Food Science & Technology (CIFST) and AAFC Conference, Fairmont Winnipeg Hotel, Winnipeg, MB, Canada, May 30-June 1, 2010, # 09-3. (Abstract)

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Research Publications:

2014

Zarepoor, L., Lu, J.T., Zhang, C., Wu, W., Lepp, D., Robinson, L., Wanasundara, P.K.J.P.D., Cui, S.W., Villeneuve, S., Fofana, B., Tsao, R., Wood, G.A., and Power, K.A. (2014). "Dietary flaxseed intake exacerbates acute colonic mucosal injury and inflammation induced by dextran sodium sulfate.", *American Journal of Physiology: Gastrointestinal and Liver Physiology*. doi : 10.1152/ajpgi.00253.2013

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Mercier, S., Villeneuve, S., Mondor, M., Moresoli, C., and Marcos, B. (2013). "Evaluation of the oxidative stability of flaxseed-enriched pasta lipids under Rancimat test.", 15th CSCHE Quebec-Ontario Biotechnology Meeting, Université Laval, Québec, Canada, May 30-31.

Villeneuve, S. (2013). "Création d'aliments innovateurs.", Semaine de l'Agriculture, de l'Alimentation et de la Consommation, Centre de foires de Québec, Québec, QC, Canada, janvier 18-20, 2013, présentation.

Villeneuve, S. (2013). "Effet de la matrice en formulation et en transformation des aliments.", De l'ingrédient novateur au produit à valeur ajoutée, Fondation Initia, St-Hyacinthe, QC, Canada, novembre 7, 2013, présentation.

2012

Power, K.A., Villeneuve, S., Mondor, M., Fustier, P., Arcand, Y., Lamarche, F., Britten, M., Cui, S.W., Tsao, R., Fofana, B., and Wanasundara, P.K.J.P.D. (2012). "Recent progress on the incorporation of flaxseed into cereal based matrices: delivery of bioactives to target sites and a comprehensive assessment of their biological effects.", 64th Flax Institute of the United States, Doublewood Inn, Fargo, ND, USA, March 29-30, 2012. (Presentation)

Do, C.B., Labranche, J., Des Marchais, L.-P., Arcand, Y., and Villeneuve, S. (2012). "Effect of processing, cooking and mastication on *in vitro* digestibility of pasta.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Presentation)

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Bergeron-Quirion, S., Villeneuve, S., LeBlanc, D.I., and Delaquis, P.J. (2012). "Thermophysical properties of pre-washed baby-leaf lettuce and brassica greens packaged in clamshells.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Poster)

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Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "Development of a simulation tool to predict the public health risks associated with microbiological hazards in Canadian food distribution systems.", 50th National Conference of the Canadian Institute of Food Science and Technology (CIFST's): Innovation meets Commercialization, Niagara Falls, ON, Canada, May 27-29, 2012. (Poster)

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Mercier, S., Mondor, M., Moresoli, C., Villeneuve, S., and Marcos, B. (2012). "Impact of pasta effective moisture diffusion coefficient on predicted drying behaviour.", 50th National Conference of the Canadian Institute of Food Science and Technology (CIFST's): Innovation meets Commercialization, Niagara Falls, ON, Canada, May 27-29, 2012. (Poster)

Villeneuve, S., Hashemi Beni, L., Côté, K., LeBlanc, D.I., Fazil, A.M., Otten, A., McKellar, R., and Delaquis, P.J. (2012). "Development of an interactive modeling tool to predict the risks associated with contaminated fresh-cut lettuce in Canadian Distribution Systems.", 101st Annual Meeting of the International Association of Food Protection (IAFP 2012), Rhode Island Convention Center, Providence, RI, USA, July 22-25, 2012.

Power, K.A. and Villeneuve, S. (2012). "Recent progress on the incorporation of flaxseed into cereal based matrices: delivery of bioactives to target sites and comprehensive assessment of their biological effects.", 64th Flax Institute of the United States, Doublewood Inn, Fargo, ND, USA, March 29-30, 2012.

Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "Développement d'un outil de simulation permettant de prédire les risques de santé publique associés aux dangers microbiologiques présents dans le système canadien de distribution des aliments.", 3e rencontre annuelle de l'Association Québécoise pour l'Innocuité Alimentaire (AQIA), Centre des Congrès de Lévis, Québec City, QC, Canada, September 13, 2012. (Poster)

Mercier, S., Mondor, M., Drolet, H., and Villeneuve, S. (2012). "Oxidative study of freeze-dried flaxseed oil-in-water emulsions prepared by a new premix membrane emulsification technique.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Poster)

Fazil, A.M., Otten, A., Hashemi Beni, L., Villeneuve, S., McKellar, R., Delaquis, P.J., and LeBlanc, D.I. (2012). "A simulation model to predict public health risks of pathogens in a Canadian food distribution system.", Society for Risk Analysis (SRA) 2012 Annual Meeting, San Francisco, CA, USA, December 9-12, 2012, T2-F.4.

Mondor, M., Tahérian, A.R., Villeneuve, S., Drolet, H., Ippersiel, D., Des Marchais, L.-P., and Lamarche, F. (2012). "Development of value-added pea protein isolate by membrane technology and its potential uses for functional food formulation.", 11th Conference of Food Engineering (CoFE 2012), National Conference Center, Leesburg, VA, USA, April 2-4, 2012. (Poster)

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Villeneuve, S., Mondor, M., and Arcand, Y. (2011). "An Engineering approach for the incorporation and delivery of bioactive compounds through food matrices.", Plant Bioactives Research in Canada. Canada-United Kingdom Gut and Health Workshop, AAFC-FRDC / AAC-CRDA, Saint-Hyacinthe, QC, Canada, February 24-25, 2011.

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Villeneuve, S., Mondor, M., and Arcand, Y. (2010). "Santé du consommateur: vision ingénierie d'une approche intégrée pour l'amélioration nutritionnelle des aliments lors de leur transformation.", Journées Scientifiques du Réseau de chercheurs Génie des procédés appliqué à l'agro-alimentaire (GP3A), Québec City, QC, Canada, June 2010. (Presentation)

Villeneuve, S. and Mondor, M. (2010). "Cultivons l'avenir: Contributions de la recherche en génie alimentaire.", Journée Scientifique du Carrefour Plein-Sud: Le retour du gros bon sens en agroalimentaire, Longueuil, QC, Canada, September 2010. (Presentation)

2009

Delaquis, P.J., Bach, S.J., LeBlanc, D.I., Brassard, J., Houde, A., Villeneuve, S., Bezanson, G.S., Diarra, M.S., Topp, E., Blais, B., Gajadhar, A., Bisailon, J.-R., Fazil, A.M., Gilmour, M., Mattison, K., and Bidawid, S. (2009). "A systems-based approach for the assessment of microbiological threats to the food supply.", 13th Annual Federal Food Safety and Nutrition Research Meeting (FFSNRM), Ottawa, ON, Canada, November 4-5, 2009. (Presentation)

Villeneuve, S. and Mondor, M. (2009). "Transformation des aliments et santé du consommateur : Rôle de l'ingénieur.", Journée d'information scientifique et technique en génie agroalimentaire 2009, CRDA de Saint-Hyacinthe, St-Hyacinthe, QC, Canada, March 25, 2009. (Presentation)

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Research Publications:

2014

Vincent, C., Lemoyne, P., Gaul, S.O., and MacKenzie, K.C. (2014). "Extreme cold temperature to kill blueberry maggot in reusable containers.", *Journal of Economic Entomology*, 107(3), pp. 906-909. doi : 10.1603/EC13524

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Vincent, C. (2013). "Breadth vs Depth Preparing the proposal and forming the research team.", Joint meeting, Entomological Society of Canada / Entomological Society of Ontario, Guelph, Ontario, Canada, October 20-22, 2013, "Grant Writing: Success with Preparation", (C. Vincent, B.J. Sinclair, J. F. Gibson, T. A. Wheeler orgs.). (Workshop)

Royauté, R., Ballot, M., Buddle, C.M., and Vincent, C. (2013). "Influence of energetic state on individual variation in boldness in the jumping spider *Eris militaris* (Araneae: Salticidae).", Annual Meeting, Entomological Society of America, Austin, Texas, USA, November 10-13, 2013, D0674. (Poster)

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Mitra, P. and Wanasundara, P.K.J.P.D. (2013). "Canola protein-based thermo plastic polymers.", 104th Annual meeting and expo of American Oil Chemists' Society, Montreal, QC, Canada, April 29 May 02, 2013, Oral.

Mitra, P., McIntosh, T.C., and Wanasundara, P.K.J.P.D. (2013). "Processing proteins from Canola.", 104th Annual meeting and expo of American Oil Chemists' Society, Montreal, QC, Canada, April 29 May 02, 2013, Poster.

Cheung, L.L., Wanasundara, P.K.J.P.D., and Nickerson, M. (2013). "Effect of pH and salt on the physicochemical and emulsifying properties of cruciferin and napin-rich protein isolates.", 104th Annual meeting and expo of American Oil Chemists' Society, Montreal, QC, Canada, April 29 May 02, 2013, Poster.

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2013

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Deng, P., Wu, Z., and Wang, A.M. (2013). "The potyviral CI protein plays an essential role in viral replication, cell-to-cell movement and systemic infection.", Annual Meeting of Canadian Phytopathological Society Southwestern Ontario Region Association, London, Ontario, Canada, November 2, 2013.

Zhang, L. and Wang, A.M. (2013). "TuMV induces the unfolded protein response via IRE1/bZIP60 mediated signalling pathway.", 32nd Annual Meeting of the American Society for Virology, Pennsylvania State University, University Park, Pennsylvania, USA, July 20-24, 2013.

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Li, Y., Bernards, M.A., and Wang, A.M. (2012). "Molecular identification and characterization of *Arabidopsis* DEAD box RNA helicases associated with turnip mosaic virus infection.", 31st Annual Meeting of American Society for Virology, University of Wisconsin-Madison, Madison, WI, USA, July 21-25, 2012. (Presentation)

Wang, A.M. (2012). "Developing Genetic Resistance to Plant Viruses via Advanced Biotechnology.", Fuji Academy of Agricultural Sciences, Fuzhou, China, October 29, 2012. (Presentation)

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Wang, A.M. (2012). "Towards Developing Novel Strategies against Plant Potyviruses.", Seminar, INRA, Bordeaux, Canada, March 6, 2012. (Presentation)

Cui, H. and Wang, A.M. (2012). "Virus against virus: development of a prunus necrotic ringspot virus-based vector against plum pox virus.", 31st Annual Meeting of American Society for Virology, University of Wisconsin-Madison, Madison, WI, USA, July 21-25, 2012. (Presentation)

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Research Publications:

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Research Publications:

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Other Science Related Publications:

2013

Iwaasa, A.D., Li, Y., and Wang, Y. (2013). "Forage and grazing evaluations of purple prairie clover (*Dalea purpurea* Vent.) and white prairie clover (*Dalea candida* Michx. ex Willd) at AAFC-SPARC.", Intermountain native plant summit VII, Boise State University, March 26-27, 2013.

Jin, L., Lynch, J.P., Duniere, L., Wang, Y., Baah, J., Beauchemin, K.A., and McAllister, T.A. (2013). "Effect of inoculant containing *L. buchneri* on ensiling fermentation of whole barley crop.", CSAS-CMSA Joint Annual Meeting, Banff Park Lodge Resort Hotel and Conference Centre, Banff, AB, Canada, June 18-20, 2013, P64, pp. 51. (Poster)

2012

Alazzeh, A.Y., Sultana, H., McAllister, T.A., Beauchemin, K.A., Wang, Y., Holo, H., and Harstad, O.M. (2012). "In Vitro Methane Mitigation by Different Strains of *Propionibacteria*.", NJF Nordic Association of Agricultural Scientists.: Seminar no. 453., Climate and Pollution Agency (KLIF), Oslo, Norway, November 5-6, 2012. (Presentation)

Alazzeh, A.Y., McAllister, T.A., Beauchemin, K.A., Wang, Y., Holo, H., and Harstad, O.M. (2012). "Potential of Propionibacteria to Mitigate Methane *In Vitro*.", Joint Annual Meeting, American Dairy Science Association, Poultry Science Association, American Milk Producers Association, Canadian Society of Animal Science, and American Society of Animal Science, Phoenix, Arizona, USA, July 15-19, 2012.

Wang, Y., Xu, Z.J., Acharya, A., and McAllister, T.A. (2012). "Effect of sainfoin condensed tannins on the N transformation of alfalfa forage preserved as silage.", Joint Annual Meeting, American Dairy Science Association, Poultry Science Association, American Milk Producers Association, Canadian Society of Animal Science, and American Society of Animal Science, Phoenix, Arizona, USA, July 15-19, 2012.

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2011

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Jin, L., Zhang, Y.G., Iwaasa, A.D., Schellenberg, M.P., Xu, Z.J., McAllister, T.A., and Wang, Y. (2011). "Fecal shedding of *Escherichia coli* of cattle grazing pastures with and without purple prairie clover (*Petalostemon purpureum*).", *Canadian Journal of Animal Science*, 91(3), pp. 503. (Abstract)

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Jin, L., Zhang, Y.G., Iwaasa, A.D., Schellenberg, M.P., Xu, Z.J., McAllister, T.A., and Wang, Y. (2011). "Effect of incorporation of purple prairie clover (*Petalostemon purpureum*) into cool season grasses mixture on *in vitro* ruminal fermentation.", *Canadian Journal of Animal Science*, 91(3), pp. 476. (Abstract)

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Jin, L., Zhang, Y.G., Iwaasa, A.D., Schellenberg, M.P., Xu, Z.J., McAllister, T.A., and Wang, Y. (2011). "Fecal shedding of *Escherichia coli* of cattle grazing pastures with and without purple prairie clover (*Petalostemon purpureum*).", 60th Annual Meeting of the Canadian Society of Animal Science (CSAS), Atlantica Hotel, Halifax, NS, Canada, May 4-5, 2011, TDC-2. (Poster)

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Narvaez, N., Wang, Y., McAllister, T.A., and Benchaar, C. (2010). "Assessment of the effects of two herbs and spices mixtures and their ethanol extracts on *in vitro* rumen microbial fermentation.", *Journal of Animal Science*, 88(E-Suppl. 2), pp. 136 (#M358). (Abstract)

Storlien, T. M., Harstad, O.M., McAllister, T.A., Narvaez, N., and Wang, Y. (2010). "Effects of different oils, tannin and saponin in *in vitro* methane production.", 4th International Greenhouse Gases and Animal Agriculture Conference (GGAA), Banff Park Lodge, Banff, AB, Canada, October 3-8, 2010. (Abstract)

Narvaez, N., Wang, Y., McAllister, T.A., and Benchaar, C. (2010). "Effects of ethanol extracts of two specific mixtures of herbs and spices on *in vitro* rumen microbial fermentation.", *Journal of Animal Science*, 88(E-Suppl. 2), pp. 135 (#M357). (Abstract)

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Research Publications:

2014

Drury, C.F., Tan, C.S., Welacky, T.W., Reynolds, W.D., Zhang, T.Q., Oloya, T.O., McLaughlin, N.B., and Gaynor, J.D. (2014). "Reducing nitrate loss in tile drainage water with cover crops and water-table management systems.", *Journal of Environmental Quality*, 43(2), pp. 587-598. doi : 10.2134/jeq2012.0495

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Beauregard, M.S., Gauthier, M.-P., Hamel, C., Zhang, T.Q., Welacky, T.W., Tan, C.S., and St-Arnaud, M. (2013). "Various forms of organic and inorganic P fertilizers did not negatively affect soil and root-inhabiting AM fungi in a maize-soybean rotation system.", *Mycorrhiza*, 23(2), pp. 143-154. doi : 10.1007/s00572-012-0459-6

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Drury, C.F., Tan, C.S., Reynolds, W.D., Welacky, T.W., Oloya, T.O., and Gaynor, J.D. (2009). "Managing tile drainage, subirrigation, and nitrogen fertilization to enhance crop yields and reduce nitrate loss.", *Journal of Environmental Quality*, 38(3), pp. 1193-1204. doi : 10.2134/jeq2008.0036

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da Rocha, M.R., Anderson, T.R., and Welacky, T.W. (2008). "Effect of inoculation temperature and soybean genotype on root penetration and establishment of heterodera glycines.", *Journal of Nematology*, 40(4), pp. 281-285.

McLaughlin, N.B., Drury, C.F., Reynolds, W.D., Yang, X.M., Li, Y.X., Welacky, T.W., and Stewart, G. (2008). "Energy Inputs for Conservation and Conventional Primary Tillage Implements in a Clay Loam Soil.", *Transactions of the ASABE*, 51(4), pp. 1153-1163.

2007

Winter, S.M.J., Shelp, B.J., Anderson, T.R., Welacky, T.W., and Rajcan, I. (2007). "QTL associated with horizontal resistance to soybean cyst nematode in Glycine soja PI464925B .", *Theoretical and Applied Genetics (TAG)*, 114(3), pp. 461-472. doi : 10.1007/s00122-006-0446-4

McLean, M.D., Hoover, G.J., Bancroft, B., Makhmoudova, A., Clark, S.M., Welacky, T.W., Simmonds, D.H., and Shelp, B.J. (2007). "Identification of the full-length Hs1pro⁻¹ coding sequence and preliminary evaluation of soybean cyst nematode resistance in soybean transformed with Hs1pro⁻¹ cDNA.", *Canadian Journal of Botany*, 85(4), pp. 437-441. doi : 10.1139/B07-038

Other Science Related Publications:

2013

Zhang, T.Q., Tan, C.S., Welacky, T.W., and Reynolds, C.K. (2013). Managing Phosphorus and Water in Soils Amended with Long-term Continuous Additions of Animal Manures and Inorganic Fertilizers to Increase Crop Use Efficiency and Reduce Adverse Impacts on Water Quality In the Great Lakes Region. AAFC, Project 2588 annual report. (Report)

Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Effectiveness of Organic and Inorganic Fertilizers on Water Quality and Crop Production under Free Drainage and Water Table Control Systems.", International Interdisciplinary Conference on Land and Water Quality, The Hague, The Netherlands, June 9-13, 2013.

Hao, X.J., Zhang, T.Q., Tan, C.S., Welacky, T.W., and Hong, J.P. (2013). "Cumulative contributions of various forms of swine manure to soil test phosphorus in a clay loam soil under long-term corn-soybean.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Zhang, T.Q., Tan, C.S., Welacky, T.W., and Zheng, Z.M. (2013). "Soil phosphorus losses in surface runoff and tile drainage as related to P-based addition of various forms of cattle manure and chemical fertilizer. Future Agriculture with Minimized Phosphorus Losses to Waters.", 7th International Phosphorus Workshop (IPW7), Uppsala, Sweden, September 9-13, 2013, pp. 160.

Zhang, T.Q., Hao, X.J., Tan, C.S., Welacky, T.W., and Hong, J.P. (2013). "Cumulative contributions of various forms of swine manure to soil test phosphorus in a clay loam soil under long-term corn-soybean rotation. Future Agriculture with Minimized Phosphorus Losses to Waters.", 7th International Phosphorus Workshop (IPW7), Uppsala, Sweden, September 9-13, 2013, pp. 161.

Herath, A., Zhang, T.Q., Tan, C.S., Hamel, C., Welacky, T.W., Parkin, G.W., Goss, M.J., and O'Halloran, I.P. (2013). "Effects of liquid, solid and compost swine manure on soil phosphorus fractions in a clay loam soil under corn-soybean rotation.", CSSS Annual Meeting, AB, Canada.

Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Water discharge and nitrogen loss in response to phosphorus draw down in high P soils.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2013). "Agronomic and environmental evaluation of soil phosphorus with continuous draw-down.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Zhang, T.Q., Tan, C.S., Welacky, T.W., Reynolds, C.K., and Drury, C.F. (2013). Phosphorus cycling in agro-eco-systems and development for risk assessment tools and BMPs to improve water quality while maximizing crop productivity. AAFC, NOI-292 Project final report. (Report)

Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2013). "Agronomic and water quality evaluation of the phosphorus draw-down approach in tile drained soils.", SERA-17 Annual Meeting, Tampa, Florida, USA, November 6-8, 2013, Invited speech.

2012

Zhang, T.Q., Tan, C.S., Welacky, T.W., Reynolds, W.D., Drury, C.F., Yang, J.Y., O'Halloran, I.P., Hua, Y.F., Prasher, S.O., and Lin, Z. (2012). Managing phosphorus and water in soils long-term continuously added with animal manures and inorganic fertilizers to increase crop use efficiency and to reduce adverse impacts on water quality in Great Lakes region. Report to AAFC. (Report)

Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2012). "Phosphorus Loss in the Tile Drains from Agricultural Lands, in Comparisons with Surface Runoff.", 2012 ASA-CSSA-SSSA International Annual Meeting, Cincinnati, OH, USA, October 21-24, 2012, #166-9. (Abstract)

Tan, C.S., Zhang, T.Q., Welacky, T.W., and Drury, C.F. (2012). "Integration of Organic Amendments with Water Table Management Recycling System on Water Quality and Crop Production.", 2012 ASA-CSSA-SSSA International Annual Meeting, Cincinnati, OH, USA, October 21-24, 2012, #166-11. (Abstract)

Welacky, T.W. and Navabi, A. (2012). "Impact of Soybean Cyst Nematodes on Pulse Crops in Canada.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)

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Research Publications:

2014

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Research Publications:

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Research Publications:

2012

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Johnson, E.N., Wolf, T.M., Caldwell, B.C., and Phelps, S.M. (2008). "Lwo-drift nozzles as an agronomic tool to improve application timing.", Canadian Weed Science Society 62nd Annual Meeting, Fairmont Banff Springs, Banff, AB, Canada, November 25-27, 2008, pp. 64.

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Research Publications:

2014

Yu, K., Woodrow, L., and Poysa, V. (2014). "AAC Stern soybean.", *Canadian Journal of Plant Science*, 94(2), pp. 457-459. doi : 10.4141/CJPS2013-306

2013

Poysa, V., Woodrow, L., and Yu, K. (2013). "AAC Malden soybean.", *Canadian Journal of Plant Science*, 93, pp. 1277-1279. doi : 10.4141/CJPS2013-159

2012

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2011

Malaki Nik, A., Alexander, M., Poysa, V., Woodrow, L., and Corredig, M. (2011). "Effect of Soy Protein Subunit Composition on the Rheological Properties of Soymilk during Acidification.", *Food Biophysics*, 6(1), pp. 26-36. doi : 10.1007/s11483-010-9172-1

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Morrison, M.J., Cober, E.R., Saleem, M.F., McLaughlin, N.B., Frégeau-Reid, J.A., Ma, B.-L., and Woodrow, L. (2010). "Seasonal changes in temperature and precipitation influence isoflavone concentration in short-season soybean.", *Field Crops Research*, 117(1), pp. 113-121. doi : 10.1016/j.fcr.2010.02.005

Poysa, V., Woodrow, L., and Yu, K. (2010). "Mersea soybean.", *Canadian Journal of Plant Science*, 90(6), pp. 873-875. doi : 10.4141/CJPS10134

Bainy, E.M., Corredig, M., Poysa, V., Woodrow, L., and Tosh, S.M. (2010). "Assessment of the effects of soy protein isolates with different protein compositions on gluten thermosetting gelation.", *Food Research International*, 43(6), pp. 1684-1691. doi : 10.1016/j.foodres.2010.05.010

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Morrison, M.J., Cober, E.R., Saleem, M.F., McLaughlin, N.B., Frégeau-Reid, J.A., Ma, B.-L., Yan, W., and Woodrow, L. (2008). "Changes in Isoflavone Concentration with 58 Years of Genetic Improvement of Short-Season Soybean Cultivars in Canada.", *Crop Science*, 48(6), pp. 2201-2208. doi : 10.2135/cropsci2008.01.0023

Luffman, M. and Woodrow, L. (2008). "Evaluation of Canadian Clonal Genebank Rubus and Ribes Accessions for Antioxidant Activity.", *Acta Horticulturae (ISHS)*, 777, pp. 537-540.

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Malaki Nik, A., Tosh, S.M., Poysa, V., Woodrow, L., and Corredig, M. (2008). "Protein Recovery in Soymilk and Various Soluble Fractions as a Function of Genotype Differences, Changes during Heating, and Homogenization.", *Journal of Agricultural and Food Chemistry*, 56(22), pp. 10893-10900. doi : 10.1021/jf800897s

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2012

Navabi, A., Pauls, K.P., Yu, K., Tsao, R., Woodrow, L., and Poysa, V. (2012). "A MultiDisciplinary Approach Towards Developing Bean Varieties for Sustainable Dry Bean Production in Ontario.", Pulse Science Cluster Scientific Meeting 2011, Radisson Hotel, Saskatoon, SK, Canada, November 17-18, 2011.

Navabi, A., Rupert, T., Woodrow, L., and Poysa, V. (2012). "Performance of mung bean (*Vigna radiate*) introduction lines in South-Western Ontario.", 9th Canadian Pulse Research Workshop, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 6-12, 2012. (Poster)

Navabi, A., Pauls, K.P., Yu, K., Tsao, R., Woodrow, L., and Poysa, V. (2012). "A MultiDisciplinary Approach Towards Developing Bean Varieties for Sustainable Dry Bean Production in Ontario. Research Update.", Pulse Science Cluster Scientific Meeting 2012, Niagara Falls Marriott Gateway, Niagara Falls, ON, Canada, November 5-6, 2012.

Woodrow, L. (2012). "Quality research for Canadian food-grade soybeans.", Canadian Soybean Council Japan-Canada Incoming Program, Guelph ON, Canada, September 19, 2012. (Presentation)

Woodrow, L. (2012). "Canadian Food-Grade Soybean Database. 2010, 2011, 2012 crops.", published by Canadian International Grains Institute and Canadian Soybean Council.

2011

Woodrow, L. (2011). "Survey of quality and composition parameters of Canadian soybeans.", published by Agriculture and Agri-Food Canada (AAFC)/Agriculture et Agroalimentaire Canada (AAC). (Technology transfer)

Woodrow, L. (2011). "Development and implementation of testing procedures for food-grade soybeans.", Canadian Soybean Export Association (CSEA) Annual Meeting, Guelph ON, Canada, January 13, 2011. (Presentation)

Woodrow, L. (2011). "Food Grade Soybeans – a Dynamic and Evolving Market.", *Canadian Soybean Dispatch*, pp. 20-23.

Jegadeesan, S., Yu, K., Woodrow, L., Wang, Y., Shi, C., and Poysa, V. (2011). "Gene specific molecular Markers for 11 S glycinin storage proteins of soybean.", 8th Canadian Plant Genomics Workshop, Niagara Falls, ON, Canada, August 22-25, 2011.

Woodrow, L. (2011). "AAFC-CSEA Exporter Day.", Open house and demonstrations on soybean, soymilk and tofu analysis for CSEA members, Harrow AAFC Greenhouse and Processing Crops Research Centre, Harrow, ON, Canada, June 10, 2011. (Presentation)

2009

McMullen, M.S., Woodrow, L., Anderson, L., and Malcolmson, L.J. (2009). "Food-grade soybean quality: A Canadian perspective.", VIII World Soybean Research Conference, Beijing, China, August 10-15, 2009.

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Yu, K., Poysa, V., Liu, S., Woodrow, L., Cregan, P., and Mansur, L. (2009). "Mapping QTLs underlying sugar content of the soybean seeds (*Glycine max* L.).", VIII World Soybean Research Conference, Beijing, China, August 10-15, 2009. (Poster)

Murphy, S.E., Rajcan, I., Bowley, S., Woodrow, L., Poysa, V., and Ablett, G.R. (2009). "Soybean isoflavones understanding the impact of the environment.", VIII World Soybean Research Conference, Beijing, China, August 10-15, 2009.

Jegadeesan, S., Yu, K., Woodrow, L., Shi, M.C., and Poysa, V. (2009). "Molecular characterization of the soybean glycinin genes underlying the absence of the G1, G2, and G3 11S protein subunits.", VIII World Soybean Research Conference, Beijing, China, August 10-15, 2009. (Poster)

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Malaki Nik, A., Tosh, S.M., Poysa, V., Woodrow, L., and Corredig, M. (2007). "Effect of soy protein subunit composition on physicochemical properties of soymilk.", 98th Annual Meeting of the American Oil Chemists' Society (AOCS) & Expo, Québec City Convention Centre, Québec City, QC, Canada, May 13-16, 2007. (Abstract)

Murphy, S.E., Woodrow, L., and Ablett, G.R. (2007). "Evaluation of environmental effects and stability of isoflavone content in soybean (*Glycine max* L. Merr.).", 2007 Annual Meeting of CPS-SCP (with Plant Canada 2007), Saskatoon, SK, Canada, June 10-14, 2007, pp. 119, F2-6. (Abstract)

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Research Publications:

2014

Chi, M., Bhagwat, B., Lane, W.D., Tang, G., Su, Y., Sun, R., Oomah, B.D., Wiersma, P.A., and Xiang, Y. (2014). "Reduced polyphenol oxidase gene expression and enzymatic browning in potato (*Solanum tuberosum* L.) with artificial microRNAs", *BMC Plant Biology*, 14(62), pp. 1-18. doi : 10.1186/1471-2229-14-62

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Bhagwat, B., Chi, M., Su, L., Tang, H., Tang, G., and Xiang, Y. (2013). "An *in vivo* Transient Expression System Can Be Applied for Rapid and Effective Selection of Artificial microRNA Constructs for Plant Stable Genetic Transformation.", *Journal of Genetics and Genomics*. doi : 10.1016/j.jgg.2013.03.012

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Liu, J.-J. and Xiang, Y. (2011). "In Silico Mining and PCR-Based Approaches to Transcription Factor Discovery in Non-model Plants: Gene Discovery of the WRKY Transcription.", *Methods in Molecular Biology (Clifton, N.J.)*, 754(2), pp. 21-43. doi : 10.1007/978-1-61779-154-3_2

Cao, Y.-f., Zhu, X.-w., Xiang, Y., Li, D.-Q., Yang, J.-r., Mao, Q.-z., and Chen, J.-s. (2011). "Genomic characterization of a novel dsRNA virus detected in the phytopathogenic fungus *Verticillium dahliae* Kleb.", *Virus Research*, 159(1), pp. 73-78. doi : 10.1016/j.virusres.2011.04.029

Hao, X., Lu, A., Sokal, N., Bhagwat, B., Leung, E., Mao, R., Reade, R., Wu, Y.F., Rochon, D., and Xiang, Y. (2011). "Cucumber necrosis virus p20 is a viral suppressor of RNA silencing.", *Virus Research*, 155(2), pp. 423-432. doi : 10.1016/j.virusres.2010.11.011

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Hui, E., Xiang, Y., and Rochon, D. (2010). "Distinct regions at the N-terminus of the Cucumber necrosis virus coat protein target chloroplasts and mitochondria.", *Virus Research*, 153(1), pp. 8-19. doi : 10.1016/j.virusres.2010.06.021

Li, Z.N., Song, J.G., Zhang, C.P., Yu, X.Q., Wu, K.K., Wu, W.J., Wu, Y.F., and Xiang, Y. (2010). "Berberis phylloidy is a phytoplasma-associated disease.", *Phytoparasitica*, 38(1), pp. 99-102. doi : 10.1007/s12600-009-0079-7

Bai, X., Liu, J.-J., Hao, X., Dubeau, C.R., and Xiang, Y. (2010). "Virus genomic cloning, bioinformatics and metagenomics.", in Wang, A. (ed.) Principles and Practice of Advanced Technology in Plant Virology, Research Signpost, Kerala, India, Chapter 4, pp. 71-92.

Wu, Y.F., Hao, X., Li, Z.N., Gu, P.W., An, F.Q., Xiang, J.Y., Wang, H.N., Luo, Z.P., Liu, J.-J., and Xiang, Y. (2010). "Identification of the Phytoplasma Associated with Wheat Blue Dwarf Disease in China.", *Plant Disease*, 94(8), pp. 977-985. doi : 10.1094/PDIS-94-8-0977

Other Science Related Publications:

2013

Rott, M., Xiang, Y., Saeed, H., Belton, M., Clarke, E., and Aadum, B.B. (2013). "Characterization of tree fruit and grapevine viruses by next generation sequencing.", American Phytopathological Society (APS) and the Mycological Society of America (MSA) Joint Meeting 2013, Austin, TX, USA, August 10-14, 2013. (Poster)

2012

Bhagwat, B., Chi, M., Su, L., Tang, H., Tang, G., and Xiang, Y. (2012). "Expressional efficacy of artificial microRNA constructs in transgenic plants can be predicted by an *in vivo* transient expression system.", 8th Canadian Plant Biotechnology Conference, University of Guelph, Guelph, ON, Canada, May 14-17, 2012. (Poster)

Chi, M., Bhagwat, B., Su, L., and Xiang, Y. (2012). "Analysis of expression of polyphenol oxidase gene family in potato (*Solanum tuberosum* L.) by quantitative PCR.", 8th Canadian Plant Biotechnology Conference, University of Guelph, Guelph, ON, Canada, May 14-17, 2012. (Presentation)

Su, L., Bhagwat, B., Bernardy, M.G., Wiersma, P.A., Cheng, Z.H., and Xiang, Y. (2012). "Molecular identification of three new strains of Cherry mottle leaf virus from infected sweet cherry trees.", Canadian Phytopathological Society (CPS) British Columbia Regional 2012 Meeting, Vancouver, BC, Canada, October 25-26, 2012, published in *Can. J. Plant Pathol.* 35(1), pp. 95 (Abstract). (Presentation)

2009

Xiang, Y., Hao, X., Lu, Q., and Rochon, D. (2009). "Suppression of transgene silencing by Cucumber necrosis virus p20 requires the replicating viral genome.", 28th Annual Meeting of the American Society for Virology, University of British Columbia, Vancouver, BC, Canada, July 11-15, 2009.

2008

Hao, X.A., Wu, Y.F., Gu, P.W., An, F.Q., Xiang, J.Y., Wang, H.N., Luo, Z.P., Liu, J.J., and Xiang, Y. (2008). "Identification of phytoplasma associated with wheat blue dwarf disease.", *Canadian Journal of Plant Pathology*, 31(1), pp. 136-137. (Abstract)

Tang, G., Xiang, Y., Kang, Z., Mendu, V., Tang, X.H., Jia, X., Chen, Q., and Tang, X.Q. (2008). "Small RNA technologies: siRNA, miRNA, antagomiR, target mimicry, miRNA sponge and miRNA profiling.", in Ying, S.Y. (ed.) *Current Perspectives in microRNAs (miRNA)*, Springer.

Zhu, X.-w., Dubeau, C.R., Li, L.Q., Chen, L., Li, L.-L., Chen, J.S., and Xiang, Y. (2008). "Genomic analysis of six dsRNA segments isolated from *Raphanus sativus* cv. Yipinghong with yellow leaf edge symptoms.", 2008 CPS British Columbia Regional Meeting, Victoria, BC, Canada, October 20-21, 2008.

Hui, E., Xiang, Y., and Rochon, D. (2008). "Evidence for the role of the Cucumber necrosis virus coat protein in subcellular targeting.", 27th Annual Meeting of American Society for Virology, Cornell University, Ithaca, NY, USA, July 12-16, 2008.

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Rochon, D., Xiang, Y., Hui, E., Theilmann, J., Orban, S., Reade, R., and White, G.J. (2007). "Subcellular targeting and host protein interactions during Cucumber necrosis virus infection.", 9th Annual Meeting of the Canadian Crop Genomics Initiative (CCGI), Penticton, BC, Canada, September 12-13, 2007.

Xiang, Y., Bhavana, S., Reade, R., Theilmann, J., and Rochon, D. (2007). "Cucumber necrosis virus P33 is associated with the induction of necrotic symptoms in leaves of infected *Nicotiana benthamiana*.", 26th Meeting of the American Society for Virology, Oregon State University, Corvallis, OR, USA, July 14-18, 2007.

Xiang, Y. (2007). "Molecular dissection of Cucumber necrosis virus.", Workshop on International Collaboration in Plant Pathology, Northwest A & F University, Shaan-Xi, China, May 1-6, 2007. (Workshop)

Hui, E., Xiang, Y., Theilmann, J., Orban, S., and Rochon, D. (2007). "Evaluation of the role of specific regions of the coat protein of Tombusand Aureusviruses in subcellular targeting.", 26th Meeting of the American Society for Virology, Oregon State University, Corvallis, OR, USA, July 14-18, 2007.

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Research Publications:

2013

Zeng, J., Cao, W., Fedak, G., Sun, S., McCallum, B.D., Fetch Jr., T.G., and Xue, A.G. (2013). "Molecular cytological characterization of two novel durum –*Thinopyrum intermedium* partial amphiploids with resistance to leaf rust, stem rust and *Fusarium* head blight.", *Hereditas*, 150(1), pp. 10-16. doi : 10.1111/j.1601-5223.2012.02262.x

Ma, B.-L., Subedi, K.D., Xue, A.G., and Voldeng, H.D. (2013). "Crop Management Effects on *Fusarium* Head Blight, *Fusarium*-Damaged Kernels and Deoxynivalenol Concentration of Spring Wheat.", *Journal of Plant Nutrition*, 36(5), pp. 717-730. doi : 10.1080/01904167.2012.748799

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McCallum, B.D., Seto-Goh, P.L., and Xue, A.G. (2013). "Physiologic specialization of *Puccinia triticina*, the causal agent of wheat leaf rust, in Canada in 2009.", *Canadian Journal of Plant Pathology*, 35(3), pp. 338-345. doi : 10.1080/07060661.2013.810669

Xue, A.G., Rowsell, J., Ho, K.M., Chen, Y., Chi, D., Manceur, M., Zhang, S.Z., and Ren, C.Z. (2013). "Effect of harvesting time on barley grain contamination with *Fusarium* spp. And deoxynivalenol in barley in northern and eastern Ontario.", *Phytoprotection*, 93(1), pp. 1-7. doi : 10.7202/1015205ar

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Pan, F.J., Xu, Y.L., McLaughlin, N.B., Xue, A.G., Yu, Q., Han, X.Z., Liu, W., Zhan, L.-L., Zhao, D., and Li, C.J. (2012). "Response of soil nematode community structure and diversity to long-term land use in the black soil region in China.", *Ecological Research*, 27(4), pp. 701-714. doi : 10.1007/s11284-012-0944-6

Xu, P.F., Wu, J.J., Xue, A.G., Jin, L., Wang, J.-S., Zhang, X.M., Li, W.B., and Zhang, S.Z. (2012). "Ultrastructure of hypocotyls of *Glycine sojae* infected with zoospores of *Phytophthora sojae*.", *Soybean Science*, 31, pp. 462-465.

Xu, P.F., Wu, J.J., Xue, A.G., Li, W.B., Chen, W.Y., Wei, L., Lv, H.Y., Lin, S.F., Fan, S.J., Li, N.H., Wang, X., Jiang, L.Y., and Zhang, S.Z. (2012). "Differentially expressed genes of soybean during infection by *Phytophthora sojae*.", *Journal of Integrative Agriculture*, 11(3), pp. 368-377. doi : 10.1016/S2095-3119(12)60021-5

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Wei, L., Xue, A.G., Cober, E.R., Babcock, C., Zhang, J.X., Zhang, S.Z., Li, W.B., Wu, J.J., and Liu, L.J. (2011). "Pathogenicity of *Pythium* species causing seed rot and damping-off on soybean under controlled conditions.", *Phytoprotection*, 91, pp. 3-10.

Zhang, H.J., Xue, A.G., Zhang, J.-X., Xu, Y.L., and Yu, D.-C. (2011). "Biocontrol of soybean root rot caused by *F. oxysporum* and *F. graminearum*.", *Soybean Science*, 30, pp. 113-118.

Fetch Jr., T.G., Mitchell Fetch, J.W., and Xue, A.G. (2011). "Races of *Puccinia graminis* on barley, oat and wheat in Canada in 2006.", *Canadian Journal of Plant Pathology*, 33(1), pp. 54-60. doi : 10.1080/07060661.2011.536650

Wang, L.F., Xu, Y.L., Li, S.X., Li, C.J., and Xue, A.G. (2011). "Effects of metabolite of *Gliocladium roseum* on egg hatching and juvenile activity of *Meloidogyne incognita*.", *Soybean Science*, 30, pp. 818-822.

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Zhang, J.X., Xue, A.G., Morrison, M.J., and Meng, Y. (2011). "Impact of time between the field application of *Bacillus subtilis* strains SB01 and SB24 and the inoculation with *Sclerotinia sclerotiorum* on the suppression of Sclerotinia stem rot in soybean.", *European Journal of Plant Pathology*, 131(1), pp. 95-102. doi : 10.1007/s10658-011-9790-6

Feng, J., Hwang, R., Chang, K.F., Conner, R.L., Hwang, S.F., Strelkov, S.E., Gossen, B.D., McLaren, D.L., and Xue, A.G. (2011). "Identification of microsatellite markers linked to quantitative trait loci controlling resistance to fusarium root rot in field pea.", *Canadian Journal of Plant Science*, 91(1), pp. 199-204. doi : 10.4141/CJPS09176

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Zhang, S.Z., Xue, A.G., Zhang, J.X., Cober, E.R., Anderson, T.R., Poysa, V., and Rajcan, I. (2010). "Reactions of Canadian short-season soybean varieties to three races of *Phytophthora sojae*.", *Canadian Journal of Plant Science*, 90(2), pp. 207-210. doi : 10.4141/CJPS09037

Zhang, J.X. and Xue, A.G. (2010). "Biocontrol of Sclerotinia stem rot (*Sclerotinia sclerotiorum*) of soybean using novel *Bacillus subtilis* strain SB24 under controlled conditions.", *Plant Pathology*, 59(2), pp. 382-391. doi : 10.1111/j.1365-3059.2009.02227.x

Xue, A.G., Rioux, S., Morrison, M.J., Chen, Y., Zhang, J.X., and Yan, W. (2010). "Resistance and tolerance to Sclerotinia stem rot in selected short season soybean cultivars in Canada.", *The Americas Journal of Plant Science and Biotechnology*, 4(Spec. Issue 2), pp. 48-54.

Yan, W., Frégeau-Reid, J.A., Rioux, S., Pageau, D., Xue, A.G., Martin, R.A., Fedak, G., De Haan, B., Lajeunesse, J., and Savard, M.E. (2010). "Response of Oat Genotypes to Fusarium Head Blight in Eastern Canada.", *Crop Science*, 50(1), pp. 134-142. doi : 10.2135/cropsci2009.03.0129

Zhang, J.X., Xue, A.G., Zhang, H.J., Cober, E.R., and Tambong, J.T. (2010). "Response of soybean cultivars to root rot caused by *Fusarium* species.", *Canadian Journal of Plant Science*, 90(5), pp. 767-776. doi : 10.4141/CJPS09133

Zhang, S.Z. and Xue, A.G. (2010). "Population biology and management Strategies of *Phytophthora sojae* causing Phytophthora root and stem rots of Soybean.", in Arya, A.P. and Perello, A. (eds.) Management of Fungal Plant Pathogens, CABI Publishing, Chapter 24 (Part Six: Alternative Control Strategies), pp. 318-328.

McCallum, B.D., Seto-Goh, P.L., and Xue, A.G. (2010). "Physiological specialization of *Puccinia triticina*, in Canada in 2007.", *Canadian Journal of Plant Pathology*, 32(2), pp. 229-236. doi : 10.1080/07060661.2010.484225

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Research Publications:

2014

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Research Publications:

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Bioinformatics

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Research Publications:

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Other Science Related Publications:

2014

Kassa, M.T., You, F.M., McCallum, B.D., Hiebert, C.W., Menzies, J.G., Pozniak, C.J., Sharpe, A.G., Fobert, P., Jordan, M.C., and McCartney, C.A. (2014). "Fine Mapping of the Wheat Leaf Rust Resistance Gene Lr16.", XXII Plant & Animal Genome Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2014.

Cabral, A.L., Jordan, M.C., You, F.M., McCartney, C.A., and Pozniak, C.J. (2014). "Identification of a Maturity QTL That Coincides with a Heading Date Locus on 7D in a DH Population of RL4452/AC Domain.", XXII Plant & Animal Genome Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2014.

You, F.M., Cloutier, S., Luo, M.-C., and Dvorak, J. (2014). "Genotyping-by-sequencing strategy for genome-wide SNP discovery and genotyping.", 12th Asia Pacific Bioinformatics Conference, Shanghai, China, January 17-19, 2014.

Laudencia-Chingcuanco, D., You, F.M., Penner, G.A., Byrns, B., and Fowler, D.B. (2014). "Induction of Cold Acclimation in Wheat (*Triticum aestivum* L.)", XXII Plant & Animal Genome Conference, Town & Country Convention Center, San Diego, CA, USA, January 10-14, 2014.

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Research Publications:

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Research Publications:

2014

Drury, C.F., Tan, C.S., Welacky, T.W., Reynolds, W.D., Zhang, T.Q., Oloya, T.O., McLaughlin, N.B., and Gaynor, J.D. (2014). "Reducing nitrate loss in tile drainage water with cover crops and water-table management systems.", *Journal of Environmental Quality*, 43(2), pp. 587-598. doi : 10.2134/jeq2012.0495

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Liu, H.L., Yang, J.Y., Tan, C.S., Drury, C.F., Reynolds, W.D., Zhang, T.Q., Bai, Y.L., Jin, J.Y., He, P., and Hoogenboom, G. (2011). "Simulating water content, crop yield and nitrate-N loss under free and controlled tile drainage with subsurface irrigation using the DSSAT model.", *Agricultural Water Management*, 98(6), pp. 1105-1111. doi : 10.1016/j.agwat.2011.01.017

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Tan, C.S., Zhang, T.Q., Drury, C.F., Reynolds, W.D., Oloya, T.O., and Gaynor, J.D. (2007). "Water quality and crop production improvement using a wetland-reservoir and drainage/subsurface irrigation system.", *Canadian Water Resources Journal*, 32(2), pp. 129-136. doi : 10.4296/cwrj3202129

Other Science Related Publications:

2013

Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Water discharge and nitrogen loss in response to phosphorus draw down in high P soils.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Tan, C.S. and Zhang, T.Q. (2013). "Use of water table management and water recycling system to reduce the negative impacts of climate change on field crop production and water Quality.", International Interdisciplinary Conference on Land and Water Quality, The Hague, The Netherlands, June 9-13, 2013.

Tan, C.S. and Zhang, T.Q. (2013). "Sustainable Agriculture-Soil-Crop-Water management Programs at Harrow Research Centre-AAFC.", Department of Earth & Environmental Science, University of Windsor, April 19, 2013. (Presentation)

Tan, C.S. and Zhang, T.Q. (2013). "Effect of tile drain depth and spacing on nitrogen losses under corn and soybean rotation.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013.

Zhang, T.Q., Tan, C.S., and Zheng, Z.M. (2013). "Development of Soil Tests as Risk Indicators for Phosphorus Losses from Agricultural Soils in Canada.", 20th International Conference on Environmental Indicators, Trier, Germany.

Tan, C.S. and Zhang, T.Q. (2013). "Effect of tile drain depth and spacing on phosphorus losses under corn and soybean rotation.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Tan, C.S. and Zhang, T.Q. (2013). "Drain water discharge and nitrogen losses in response to tile drain spacing and depth in Southern Ontario.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.

Tan, C.S., Zhang, T.Q., and Welacky, T.W. (2013). "Effectiveness of Organic and Inorganic Fertilizers on Water Quality and Crop Production under Free Drainage and Water Table Control Systems.", International Interdisciplinary Conference on Land and Water Quality, The Hague, The Netherlands, June 9-13, 2013.

Hao, X.J., Zhang, T.Q., Tan, C.S., Welacky, T.W., and Hong, J.P. (2013). "Cumulative contributions of various forms of swine manure to soil test phosphorus in a clay loam soil under long-term corn-soybean.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Herath, A., Zhang, T.Q., Tan, C.S., Hamel, C., Bittman, S., Parkin, G.W., and Goss, M.J. (2013). "Development of a soil test for prediction of long-term potential for phosphorus loss in typical Canadian soils.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.

Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2013). "Agronomic and environmental evaluation of soil phosphorus with continuous draw-down.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013. (Poster)

Herath, A., Zhang, T.Q., Tan, C.S., Hamel, C., Welacky, T.W., Parkin, G.W., Goss, M.J., and O'Halloran, I.P. (2013). "Effects of liquid, solid and compost swine manure on soil phosphorus fractions in a clay loam soil under corn-soybean rotation.", CSSS Annual Meeting, AB, Canada.

Zhang, T.Q., Tan, C.S., Welacky, T.W., and Zheng, Z.M. (2013). "Soil phosphorus losses in surface runoff and tile drainage as related to P-based addition of various forms of cattle manure and chemical fertilizer. Future Agriculture with Minimized Phosphorus Losses to Waters.", 7th International Phosphorus Workshop (IPW7), Uppsala, Sweden, September 9-13, 2013, pp. 160.

Zhang, T.Q., Zheng, Z.M., Wen, G., Kessel, C., Tan, C.S., and O'Halloran, I.P. (2013). "Agronomic and environmental soil phosphorus testing for organic (muck) soils.", The 2nd Biennial Lake Simcoe Science Forum, October 29-30, 2013.

Tan, C.S. and Zhang, T.Q. (2013). "Terrestrial study update in Fuling watershed.", International Workshop of Innovative Monitoring and Prediction of non-point sources pollution and water quality in TGR., Beibei, Chongqing, China, August 13-17, 2013. (Presentation)

Ziadi, N., Bélanger, G., Grant, C.A., Cade-Menun, B.J., Lalande, R., Hamel, C., Lafond, J., Lajeunesse, J., Pageau, D., Tremblay, G.F., and Zhang, T.Q. (2013). Soil and plant phosphorus assessment and modeling in Canadian agro-ecosystems. Final report SAGES#1475. (Report)

Zhang, T.Q., Tan, C.S., Welacky, T.W., Reynolds, C.K., and Drury, C.F. (2013). Phosphorus cycling in agro-eco-systems and development for risk assessment tools and BMPs to improve water quality while maximizing crop productivity. AAFC, NOI-292 Project final report. (Report)

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Zhang, T.Q., Tan, C.S., Welacky, T.W., and Reynolds, C.K. (2013). Managing Phosphorus and Water in Soils Amended with Long-term Continuous Additions of Animal Manures and Inorganic Fertilizers to Increase Crop Use Efficiency and Reduce Adverse Impacts on Water Quality In the Great Lakes Region. AAFC, Project 2588 annual report. (Report)

Zhang, T.Q., Tan, C.S., Zheng, Z.M., and Drury, C.F. (2013). "Tile drainage phosphorus losses from agricultural soils: case studies in Canada.", ASA/CSSA/SSSA International annual meeting, Tampa, Florida, USA, November 3-6, 2013.

Zhang, T.Q., Tan, C.S., and Welacky, T.W. (2013). "Agronomic and water quality evaluation of the phosphorus draw-down approach in tile drained soils.", SERA-17 Annual Meeting, Tampa, Florida, USA, November 6-8, 2013, Invited speech.

Zhang, T.Q. and Tan, C.S. (2013). "Nutrient cycling and management in agri-ecosystems.", Department of Earth & Environmental Science, University of Windsor, April 19, 2013. (Presentation)

Lu, C., Qi, Z., Prasher, S.O., Tan, C.S., and Zhang, T.Q. (2013). "Modeling surface runoff and subsurface drainage in a corn and soybean rotation field in southern Ontario using RZWQM2.", ASABE Annual International Meeting, Kansas City, MO, USA, July 21-24, 2013.

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Tan, C.S., Ng, H.Y.F., and Zhang, T.Q. (2012). "The effect of water table management on water quality under sandy loam and clay loam soils at the farm scale.", 2012 ASABE Annual International Meeting, Hilton Anatole Dallas, Dallas, TX, USA, July 29-August 1, 2012, Paper Number: 12-1336985. 19 pages.

Tan, C.S. and Zhang, T.Q. (2012). "Effect of water management on phosphorus transport through surface and sub-surface drainage in corn and soybean rotation.", Joint meeting of the Agricultural Drainage Management Systems Task Force and North Central Extension and Research Activity 217 (Drainage Design and Management Practices to Improve Water Quality), Dundee, MI, USA, April 17-19, 2012. (Presentation)

Zhang, T.Q., Zheng, Z.M., Wen, G., Kessel, C., Tan, C.S., O'Halloran, I.P., Reid, D.K., Nemeth, D., and Speranzini, D. (2012). Development of agronomic and environmental soil phosphorus testing methods for organic (muck) soils. Report to Environment Canada, Ontario Ministry of Agriculture, Food, and Rural Affairs, and Ontario Agriculture Federation (Lake Simcoe Clean-up Program). (Report)

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Tan, C.S. and Zhang, T.Q. (2012). "Effect of New Innovative Water Management System On Nutrient Losses and Crop Production", 2012 ASA-CSSA-SSSA International Annual Meeting, Cincinnati, OH, USA, October 21-24, 2012, 166-4. (Abstract)

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