

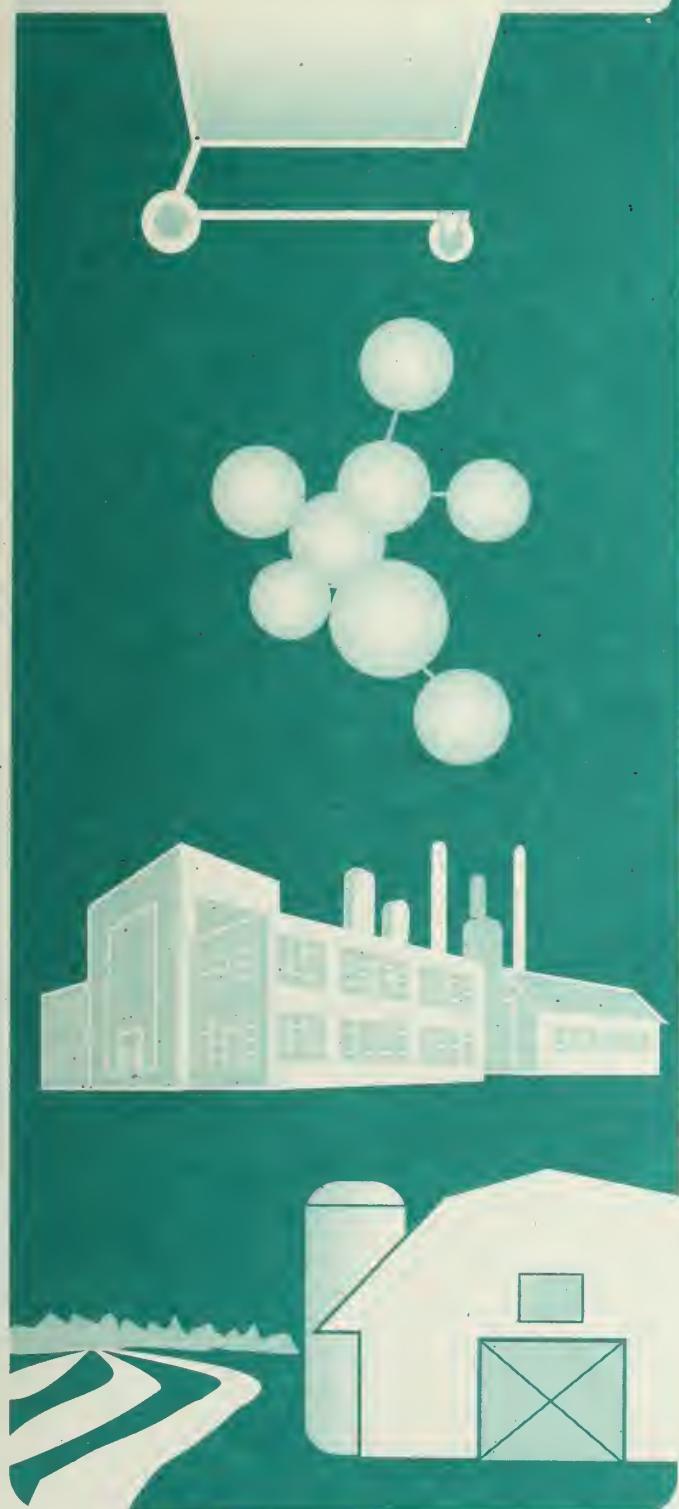


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Research Branch
Technical Bulletin 1993-14E

Guide to the Wild Germplasm of Brassica and Allied Crops

Part I

Centre for Land
and Biological Resources Research



Centre de recherches sur les
terres et les ressources biologiques

Canadä

Cover illustration

The images represent the Research Branch's objective:
to improve the long-term competitiveness of the Canadian
agri-food sector through the development and transfer of new
technologies.

Designed by Research Program Service.

Illustration de la couverture

Les dessins illustrent l'objectif de la Direction générale de la
recherche : améliorer la compétitivité à long terme du secteur
agro-alimentaire canadien grâce à la mise au point et au transfert
de nouvelles technologies.

Conception par le Service aux programmes de recherches.



Guide to the Wild Germplasm of Brassica and Allied Crops

Part I Taxonomy and Genome Status in the Tribe Brassiceae (Cruciferae)

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Centre for Land and Biological Resources Research
Ottawa, Ontario

Technical Bulletin 1993-14E

Centre for Land and Biological Resources Research
Research Branch, Agriculture Canada

November 1993

Copies of this publication are available from:

Centre for Land and Biological Resources Research
Research Branch, Agriculture Canada
K.W. Neatby Bldg., C.E.F.
Ottawa, Ontario
K1A 0C6

Published by Cartographic Design and Reproduction Unit
Centre for Land and Biological Resources Research

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Cat. No. A54-8/1993-14E
ISBN 0-662-21114-6

ACKNOWLEDGEMENT

I wish to thank J. Torrie and R. Vogrig, Centre for Land and Biological Resources Research for their technical assistance in preparing the computer database; and L.D. Black and A. Francis, Centre for Land and Biological Resources Research, for their editorial comments on earlier versions of this publication.



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INTRODUCTION TO THE GUIDE:

The Cruciferae family, which contains about 3500 species and 350 genera, is one of the ten most economically important plant families (Rich 1991). The tribe Brassiceae is one of the 13-19 tribes which have been recognized within the family and is one of the few tribes believed to constitute a natural group (Hedge 1976, Al-Shehbaz 1984, 1985). It is the most important economically and the most distinctive (Gómez-Campo 1980, Al-Shehbaz 1985). It is distinguished on the basis of the presence of conduplicate cotyledons (i.e. the cotyledons are longitudinally folded around the radical) and/or two-segmented fruits (siliques) which contain seeds in one or both segments, and only simple hairs if present (Gómez-Campo 1980, Al-Shehbaz 1985).

Crop brassicas display enormous diversity and are used as a source of oil, vegetables, mustard condiments, and fodder. Those of particular importance in Canada are: *Brassica napus*, *B. rapa*, and *B. juncea* as sources of canola oil, and *B. oleracea* as cole-crops. The genera *Raphanus* and *Sinapis* are also of major importance, the former cultivated for its edible roots and the latter as a source of mustard condiments along with *B. nigra*. Several species have become naturalized weeds in Canada and the United States [eg. *Sinapis arvensis* (wild mustard), *Raphanus raphanistrum* (wild radish), and *B. rapa* (wild rape)], representing both a potential source of germplasm and agricultural problems. In other areas of the world *Crambe* is cultivated as an industrial oil, and the leaves of other genera (eg. *Eruca* and *Diplotaxis*) are eaten as salad greens.

An understanding of the genetic potential of wild relatives of the crop species of *Brassica* and allied genera (members of the Tribe Brassiceae) is critical for the establishment of long-term breeding programs of these crops. In addition, it is clear that many of the wild species in the tribe have potential value as new crops, as sources of industrial oils (*Crambe*, *Eruca*), condiments (*Sinapis alba*), and other diverse products. Wild relatives also possess a number of useful agronomic traits which could be incorporated into breeding programs, including: cytoplasmic and nuclear male sterility; resistance to disease and insect and nematode pests; intermediate C₃-C₄ photosynthetic activity; and tolerance of cold, salt and drought conditions.

The last comprehensive taxonomic treatment on the tribe was conducted by Schulz (1919, 1923, 1936). The tribe Brassiceae contains approximately 217 species and 51 genera, 25 of which are monotypic (Table below). Geographically, it is centered in the southwestern Mediterranean region, particularly Algeria, Morocco and Spain, where c. 41 genera are either endemic or exhibit maximum diversity. The tribal range extends eastward into India and Pakistan and southward into South Africa, with a poor representation in the New World (Hedge 1976, Gómez-Campo 1980, Al-Shehbaz 1985).

GENERA OF THE TRIBE BRASSICEAE (no. species in brackets)

Ammosperma (2)	Guiraoa (1)
Boleum (1)	Hemicrambe (2)
Brassica (35)	Henophyton (1)
Cakile (7)	Hirschfeldia (2)
Carrichtera (1)	Kremeriella (1)
Ceratocnemum (1)	Moricandia (9)
Chalcanthus (2)	Morisia (1)
Coincyia (6)	Muricaria (1)
Conringia (6)	Otocarpus (1)
Cordylocarpus (1)	Physorrhynchus (2)
Crambe (26)	Pseuderucaria (2)
Crambella (1)	Pseudofortuynia (1)
Didesmus (2)	Psychine (1)
Diplotaxis (27)	Quezeliantha (1)
Dolichorhynchus (1)	Raffenaldia (2)
Douepia (1)	Raphanus (2)
Enarthrocarpus (5)	Rapistrum (2)
Eremophyton (1)	Rytidocarpus (1)
Eruca (3)	Savignya (1)
Erucaria (9)	Schouwia (1)
Erucastrum (19)	Sinapidendron (5)
Euzomodendron (1)	Sinapis (5)
Fezia (1)	Succowia (1)
Foleyola (1)	Trachystoma (3)
Fortuynia (2)	Vella (5)
	Zilla (1)

Within the tribe, Schulz (1919, 1923, 1936) also recognized, somewhat arbitrarily on the basis of morphological characters, seven subtribes: Brassicinae, Cakilinae, Moricandiinae, Raphaninae, Savignyinae, Vellinae, and Zillinae. Gómez-Campo (1980) has since proposed a reduction to six subtribes with the inclusion of the Savignyinae in the Vellinae. The Brassicinae and Moricandiinae both include genera with elongated siliquose dehiscent fruit, while the other subtribes include those with reduced or "nucamentaceous" fruits.

Generic boundaries in the tribe are still somewhat arbitrarily drawn, and the establishment of clear-cut intergeneric relationships requires clarification. Unlike many of the small genera, the species are generally very distinct throughout the family, with fruit characters being the most reliably used structures for the proper identification of genera and species. Taxonomic debate in the tribe has centred most particularly upon the number of and relationships between the subtribes and genera (Hedge 1976, Al-Shehbaz 1985).

The genus *Brassica* is one of ten core genera in the subtribe Brassicinae, which also includes *Coincyia*, *Diplotaxis*, *Eruca*, *Erucastrum*, *Hirschfeldia*, *Raphanus*, *Sinapidendron*, *Sinapis*, and *Trachystoma*. The Brassicinae is defined primarily on the basis of elongated (siliquose) dehiscent fruits, presence of median nectaries, and usually seeded beaks. Although morphologically quite distinct from subtribes Cakilinae, Vellinae, and Zillinae, its separation from the Raphaninae and Moricandiinae is less clear. Current generic circumscriptions within the subtribe Brassicinae have also been considered to be highly artificial by many taxonomists, with generic delimitation based primarily on only one or two morphological traits.

Systematists are continuing to re-evaluate relationships within the tribe Brassiceae by way of morphological, cytological, hybridization, isozyme and molecular analyses (studies reviewed in Warwick and Black 1991, 1993). Such research has confirmed many proposed species relationships, but has also indicated new relationships between genera and species. In particular, these studies have identified new potential sources of germplasm for *Brassica* crops, indicating that the range of germplasm important to the genus is much greater than previously recognized.

The following Guide to the wild germplasm of *Brassica* and allied crops (Tribe Brassiceae, family Cruciferae) will be divided into five parts as indicated below:

- I. **Taxonomy and Genome Status** - [Complete list of genera and species in the tribe and their genomic status, containing cross references for commonly confused names];
by S.I. WARWICK
- II. **Chromosome Numbers;**
by S.I. WARWICK & J.K. ANDERSON
- III. **Interspecific and Intergeneric Hybridizations;**
by S.I. WARWICK & L.D. BLACK
- IV. **Wild Species as Sources of Agronomic Traits** - [List of potentially useful agronomic traits and possible wild germplasm sources in the tribe];
by S.I. WARWICK
- V. **Life History Data** [Summary of habitat and geographical distributions of all species indicated in part I.]
by S.I. WARWICK

The information provided in this guide is intended to be useful in providing direction for future genebank needs for these crops and for assisting biotechnologists and breeders wishing to utilize these genetic resources in their research programs.

**PART I: TAXONOMY AND GENOME STATUS IN THE TRIBE BRASSICEAE
(Cruciferae)**

The following publication is the first part of a guide to the wild germplasm of *Brassica* and allied crops (Tribe Brassiceae, family Cruciferae). It provides a complete list of genera and species in the tribe and their genomic status.

Extensive synonymy exists for almost all the species in this tribe with different taxonomists over the last 240 years referring to the same species under different names. Taxonomic studies (revisions) have indicated which of these names correspond to the same species, i.e. are synonymous. A complete list of all latin binomials and cross references for each species in the tribe would number in the thousands. In this publication I have been selective in my synthesis of the main species in the tribe as summarized from the major floras of the world. I have tried to include only "current" names - those which appear in the recent literature and are used to describe the same taxon and which often cause confusion for all but the most dedicated taxonomist. Such an example would be *Brassica adpressa* and *Hirschfeldia incana*, both commonly used names for the same species in North America and Europe, respectively. This taxonomic guide will include both names and will indicate under which name the biological information in the subsequent parts will appear.

The following information is provided for each taxon:

GENUS & SPECIES Latin binomial for each taxon followed by the name of the taxonomic authority.

AUTH SOURCE: Reference in which authority published the binomial name, i.e source of species description.

SUBSPECIES: List of currently recognized subspecies for each species, followed by the name of the authority that recognized the taxon at the subspecific rank followed by the published reference for this name.

SYNONYM: As required, the current latin binomial with which this species name is synonymous.

GENOME: The cytodeeme status of this particular taxon. In many cases this is identical to the species name, but in other cases studies have indicated that the taxon is highly interfertile with other taxa (See GENOME STATUS) and included in the same "cytodeeme".

Information is available in the publication under this name or under the synonym.

The final statement indicates whether additional biological information will be summarized in the subsequent parts of the guide under the particular latin binomial cited in **GENUS & SPECIES** or that under the **SYNONYM**. Biological information will be summarized for each species and will not usually be given separately for subspecies and varieties.

GENUS: Ammosperma GENOME: Ammosperma cinereum
 SPECIES: cinereum (Desf.) Hook. f.
 AUTH SOURCE: Benth. and Hook., Gen. Pl. 1:82 (1862)
 Information is available in the Guide under this name.

GENUS: Ammosperma GENOME: Ammosperma variabile
 SPECIES: variabile Nègre & Le Houérou
 AUTH SOURCE: Bull. Soc. Bot. Fr. 106:146 (1959)
 Information is available in the Guide under this name.

GENUS: Boleum GENOME: Boleum asperum
 SPECIES: asperum (Pers.) Desv.
 AUTH SOURCE: J. Bot. Agric. 3:163 (1815)
 SYNONYM: Vella aspera Pers., Syn. Pl. 2:185 (1806)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Hirschfeldia incana
 SPECIES: adpressa Boiss.
 AUTH SOURCE: Voy. Bot. Midi Espagne II (1839)
 SYNONYM: Hirschfeldia incana (L.) Lagréze-Fossat
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: alboglabra L.H. Bailey
 AUTH SOURCE: Gentes Herb. 1:79 (1922)
 SYNONYM: Brassica oleracea L.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica souliei
 SPECIES: amplexicaulis (Desf.) Pomel
 AUTH SOURCE: Mat. Fl. Atlant. :15 (1860)
 SYNONYM: Brassica souliei ssp. amplexicaulis (Desf.) Greuter & Burdet
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica assyriaca
 SPECIES: assyriaca Mouton
 AUTH SOURCE: Nouv. Fl. Liban Syrie 2:113 (1970)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: atlantica (Coss.) O.E. Schulz
 AUTH SOURCE: Engler, Pflanzenr. IV 105 (Heft 68-70):36 (1919)
 SYNONYM: Brassica insularis Moris
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica balearica
 SPECIES: balearica Pers.
 AUTH SOURCE: Syn. Pl. 2:206 (1806)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica barrelieri
 SPECIES: barrelieri (L.) Janka
 AUTH SOURCE: Term., Füz. 6:179 (1882)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: bourgeaui (Webb) Kuntze
 AUTH SOURCE: Rev. Gen. Pl. 1:20 (1891)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica cadmea
 SPECIES: cadmea Heldr. ex O.E. Schulz
 AUTH SOURCE: Engler, Pflanzenr. IV 105 (Heft 68-70):63 (1919)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica rapa
 SPECIES: campestris L.
 AUTH SOURCE: Sp. Pl. 666 (1753)
 SYNONYM: Brassica rapa L.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica carinata
 SPECIES: carinata A. Braun
 AUTH SOURCE: Flora (Regensb.) 24:267 (1842)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica juncea
 SPECIES: cernua (Thunb.) Forbes & Hemsley
 AUTH SOURCE: J. Linn. Soc. 23:47 (1886)
 SYNONYM: Brassica juncea (L.) Czern. & Coss.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica rapa
 SPECIES: chinensis L.
 AUTH SOURCE: Cent. I. Pl., p. 19 (1755)
 SYNONYM: Brassica rapa L.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica fruticulosa
 SPECIES: cossoniana Boiss. & Reut.
 AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 2, 1:31 (1854)
 SYNONYM: Brassica fruticulosa ssp. cossoniana (Boiss. & Reut.) Maire
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: cretica Lam.
 AUTH SOURCE: Encycl. Méth. Bot. 1:747 (1785)
 SUBSPECIES: ssp. aegaea (Heldr. & Hal.) Snogerup, M. Gustafsson & Bothmer: Snogerup et al., Willdenowia 19:289 (1990);
 ssp. cretica;
 ssp. laconica M. Gustafsson & Snogerup, Bot. Chron. 3:8 (1984)
 SYNONYM: Brassica oleracea var. cretica (Lam.) Coss.
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica deflexa
 SPECIES: deflexa Boiss.
 AUTH SOURCE: Ann. Sci. Nat. Bot., ser. 2, 17:87 (1842)
 SUBSPECIES: ssp. deflexa;
 ssp. leptocarpa (Boiss.) Hedge: Rech. f., Fl. Iranica 57:35 (1968)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica deserti
 SPECIES: deserti Danin & Hedge
 AUTH SOURCE: Not. Roy. Bot. Gard. Edinb. 32:259, f. 1 (1972)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica repanda
 SPECIES: desnottei Emb. & Maire
 AUTH SOURCE: Pl. Marocc. Nov. 2:1 (1929)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica souliei
 SPECIES: dimerophya Coss. & Durieu
 AUTH SOURCE: Bull. Soc. Bot. Fr. 2:306 (1855)
 SYNONYM: Brassica souliei ssp. "dimerophya" (Coss. & Durieu) Salmeen, [unpublished Ph.D. thesis 1979]
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: drepanensis (Caruel) Damanti
 AUTH SOURCE: Nat. Sicil. 10(4):91 (1891)
 SYNONYM: Brassica villosa Biv.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica elongata
 SPECIES: elongata Ehrh.
 AUTH SOURCE: Beitr. Naturk. 7:159 (1792)
 SUBSPECIES: ssp. elongata;
 ssp. imdrhasiana Quézel, Bull. Soc. Sci. Nat. Maroc 34:304 (1955);
 ssp. integrifolia (Boiss.) Breistr., Not. Syst. Bot.:13 (1942);
 ssp. pinnatifida (Schmalh.) Greuter & Burdet, Willdenowia 15:64 (1985);
 ssp. subscaposa (Maire & Weiller) Maire, Fl. Afr. Nord 12:168 (1965)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica fruticulosa
 SPECIES: fruticulosa Cyr.
 AUTH SOURCE: Pl. Rar. Neap. 2:7 (1792)
 SUBSPECIES: ssp. cossianiana (Boiss. & Reut.) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2: 287 (1932);
 ssp. fruticulosa;
 ssp. glaberrima (Pomel) Batt.: Batt. & Trabut, Fl. Algérie 1:59 (1888);
 ssp. mauritanica (Coss.) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2:288 (1932);
 ssp. numidica (Coss.) Maire, Fl. Afr. Nord 12:175 (1965);
 ssp. pomeliana Maire, Willdenowia 15:64 (1985);
 ssp. radicata (Desf.) Batt.: Batt. & Trabut, Fl. Algérie 1:59 (1888);
 ssp. rifana (Emb. & Maire) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2:288 (1932)

Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica glabrescens
 SPECIES: glabrescens Poldini
 AUTH SOURCE: Giorn. Bot. Ital. 107:181 (1973)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica gravinae
 SPECIES: gravinae Ten.
 AUTH SOURCE: Fl. Napol. 1:39 (1811)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: hilarionis Post
 AUTH SOURCE: Mém. Herb. Boissier 18:90 (1900)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Sinapis alba-flexuosa
 SPECIES: hirta Moench
 AUTH SOURCE: Suppl. Meth. :84, 2 (1802)
 SYNONYM: Sinapis alba L.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: incana Ten.
 AUTH SOURCE: Fl. Napol. 1:39 (1811)
 SYNONYM: Brassica oleracea L. var. incana (Ten.) Paol.: Fiori & Paol., Fl. Italia 1:446 (1898)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: insularis Moris
 AUTH SOURCE: Fl. Sardoa 1:168 (1837)
 SYNONYM: Brassica oleracea ssp. insularis (Moris) Rouy & Fouc., Fl. France 2:54 (1895)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica juncea
 SPECIES: integerrifolia (West) O.E. Schulz
 AUTH SOURCE: Urban, Symb. Antill. 3,3:509 (1903)
 SYNONYM: Brassica juncea (L.) Czern. & Coss.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica deflexa
 SPECIES: iranica Rech. f., Aell. & Esfand.
 AUTH SOURCE: Phyton 3:44 (1951)
 SYNONYM: Brassica deflexa ssp. leptocarpa (Boiss.) Hedge
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica juncea
 SPECIES: japonica (Thunb.) Siebold ex Miq.
 AUTH SOURCE: Ann. Mus. Bot. Lugdono-Batavum 2:74 (1865)
 SYNONYM: Brassica juncea (L.) Czern. & Coss.
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica jordanoffii
 SPECIES: jordanoffii O.E. Schulz
 AUTH SOURCE: Notizbl. Bot. Gart. Berlin-Dahlem 10:111 (1927)
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica juncea
 SPECIES: juncea (L.) Czern. & Coss.
 AUTH SOURCE: Czern., Conspl. Pl. Charc. 8 (1859)
 Information is available in the Guide under this name.

GENUS: <u>Brassica</u>	GENOME: <u>Sinapis arvensis</u>
SPECIES: <u>kaber</u> (DC.) Wheeler	
AUTH SOURCE: Rhodora 40:306 (1938)	
SYNONYM: <u>Sinapis arvensis</u> L.	
Information is available in the Guide under the synonym.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica deflexa</u>
SPECIES: <u>Leptocarpa</u> Boiss.	
AUTH SOURCE: Fl. Orient. 1:392 (1867)	
SYNONYM: <u>Brassica deflexa</u> ssp. <u>Leptocarpa</u> (Boiss.) Hedge	
Information is available in the Guide under the synonym.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES: <u>macrocarpa</u> Guss.	
AUTH SOURCE: Ind. Sem. Hort. Boccadi. 3 (1825)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica fruticulosa</u>
SPECIES: <u>maurorum</u> Durieu	
AUTH SOURCE: Rev. Bot. Bull. Mens. 2:433 (1847)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES: <u>montana</u> Pourret	
AUTH SOURCE: Hist. Mém. Acad. Roy. Sci. Toulouse 1, ser. 3:308 (1778)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica napus</u>
SPECIES: <u>napus</u> L.	
AUTH SOURCE: Sp. Pl. :666 (1753)	
SYNONYM: <u>Brassica rapa</u> ssp. <u>napus</u> (L.) Briq.	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica nigra</u>
SPECIES: <u>nigra</u> (L.) Koch	
AUTH SOURCE: Röhl., Deutschl. Fl. ed. 3, 4:713 (1833)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica nivalis</u>
SPECIES: <u>nivalis</u> Boiss. & Heldr.	
AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 2, 1:32 (1853)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES: <u>nivea</u> Boiss. & Spruner	
AUTH SOURCE: Boiss. Diagn. Pl. Orient. Nov. ser. 1, 1:72 (1843)	
SYNONYM: <u>Brassica cretica</u> ssp. <u>cretica</u> Lam.	
Information is available in the Guide under the synonym.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica repanda</u>
SPECIES: <u>nudicaulis</u> (Lag.) O.E. Schulz	
AUTH SOURCE: Engler, Pflanzenr. IV. 105 (Heft 68-70):72 (1919)	
SYNONYM: <u>Brassica repanda</u> ssp. <u>nudicaulis</u> (Lag.) Heywood	
Information is available in the Guide under the synonym.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES: <u>oleracea</u> L.	
AUTH SOURCE: Sp. Pl. :667 (1753)	
SUBSPECIES: ssp. <u>"alboglabra"</u> ;	
ssp. <u>oleracea</u> ;	
ssp. <u>sylvestris</u> (L.) DC., Prodr. 1:213 (1834)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica oxyrrhina</u>
SPECIES: <u>oxyrrhina</u> (Coss.) Willk. & Lange	
AUTH SOURCE: Prodr. Fl. Hispan. 3:854 (1880)	
Information is available in the Guide under this name.	
GENUS: <u>Brassica</u>	GENOME: <u>Brassica rapa</u>
SPECIES: <u>pekinensis</u> (Lour.) Rupr.	
AUTH SOURCE: Fl. Ingrica 1:96 (1860)	
SYNONYM: <u>Brassica rapa</u> L.	
Information is available in the Guide under the synonym.	

GENUS:	<u>Brassica</u>	GENOME: <u>Brassica procumbens</u>
SPECIES:	<u>procumbens</u> (Poiret) O.E. Schulz	
AUTH SOURCE:	Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)	
Information	is available in the Guide under this name.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica rapa</u>
SPECIES:	<u>rapa</u> L.	
AUTH SOURCE:	Sp. Pl. :666 (1753)	
SUBSPECIES:	ssp. <u>rapa</u> ; ssp. <u>sylvestris</u> (L.) Janchen: Janchen & Wendelberger, Kleine Fl. Wein :55 (1953)	
SYNONYM:	<u>Brassica campestris</u> L.	
Information	is available in the Guide under this name.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica repanda</u>
SPECIES:	<u>repanda</u> (Willd.) DC.	
AUTH SOURCE:	Reg. Veg. Syst. Nat. 2:598 (1821)	
SUBSPECIES:	ssp. <u>africana</u> (Maire) Greuter & Burdet, Willdenowia 13:86 (1983), [includes ssp. <u>nudicaulis</u>]; ssp. <u>almeriensis</u> Gómez-Campo, Anales Inst. Bot. Cavanilles 33:154 (1976); ssp. <u>blancoana</u> (Boiss.) Heywood, Feddes Repert. 66:153 (1962); ssp. <u>cadevallii</u> (Font Quer) Heywood, Feddes Repert. 66:154 (1962); ssp. <u>cantabrica</u> (Font Quer) Heywood, Feddes Repert. 69:151 (1964); ssp. <u>confusa</u> (Emb. & Maire) Heywood, Feddes Repert. 66:153 (1962); ssp. <u>galissieri</u> (Graud.) Heywood, Feddes Repert. 69:150 (1964); ssp. <u>latisiliqua</u> (Boiss. & Reut.) Heywood, Feddes Repert. 66:153 (1962); ssp. <u>maritima</u> (Rouy) Heywood, Feddes Repert. 66:153 (1962); ssp. <u>nudicaulis</u> (Lag.) Heywood, Feddes Repert. 69:151 (1964), [included in ssp. <u>africana</u> Greuter et al. (1986)]; ssp. <u>repanda</u> ; ssp. <u>saxatilis</u> (DC.) Heywood, Feddes Report. 69:151 (1964); ssp. <u>sileneifolia</u> (Emb.) Greuter & Burdet, Willdenowia 13:86 (1983); ssp. <u>turbanis</u> (P. Monts.) J. Monts & Romo, Willdenowia 15:64 (1985)	
Information	is available in the Guide under this name.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica fruticulosa</u>
SPECIES:	<u>rifana</u> Emb. & Maire	
AUTH SOURCE:	Mém. Soc. Sci. Nat. Maroc, 17:26 (1927)	
SYNONYM:	<u>Brassica fruticulosa</u> ssp. <u>rifana</u> (Emb. & Maire) Maire [= <u>Erucastrum rifanum</u> (Emb. & Maire) Gómez-Campo]	
Information	is available in the Guide under the synonym.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES:	<u>robertiana</u> J. Gay	
AUTH SOURCE:	Monnard, Ann. Sci. Nat. (Paris) 7:415 (1826)	
SYNONYM:	<u>Brassica montana</u> Pourret	
Information	is available in the Guide under the synonym.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES:	<u>rupestris</u> Raf.	
AUTH SOURCE:	Caratt. Nuov. Gen. :77 (1810)	
SYNONYM:	<u>Brassica oleracea</u> L. <u>rupestris</u> Paol.: Fiori & Paol., Fl. Italia I,2:446 (1898)	
Information	is available in the Guide under this name.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica oleracea</u>
SPECIES:	<u>rupicola</u> Boulotoumoy	
AUTH SOURCE:	Fl. Liban Syrie: 27 (1930)	
SYNONYM:	<u>Brassica cretica</u> ssp. <u>cretica</u> Lam.	
Information	is available in the Guide under the synonym.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica repanda</u>
SPECIES:	<u>saxatilis</u> DC. ex Amo	
AUTH SOURCE:	Amo, Mém. Real. Acad. Ci. Exact. Madrid 5:233 (1861)	
SYNONYM:	<u>Brassica repanda</u> ssp. <u>saxatilis</u> (DC.) Heywood	
Information	is available in the Guide under the synonym.	
GENUS:	<u>Brassica</u>	GENOME: <u>Brassica fruticulosa</u>
SPECIES:	<u>scopulorum</u> Coss. & Durieu	
AUTH SOURCE:	Coss. & Barratte, Ill. Fl. Atlant. 1:28 (1882) [nom. illeg.]	
SYNONYM:	<u>Brassica spinescens</u> Pomel	
Information	is available in the Guide under the synonym.	

GENUS: Brassica GENOME: Brassica souliei
 SPECIES: souliei (Batt.) Batt.
 AUTH SOURCE: Bull. Soc. Bot. Fr. 40:262 (1893)
 SUBSPECIES: ssp. amplexicaulis (Desf.) Greuter & Burdet, Willdenowia 13:86 (1983);
 ssp. "dimorpha" (Coss. & Durieu) Salmeen, [unpublished Ph.D. thesis 1979];
 ssp. souliei

Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica fruticulosa
 SPECIES: spinescens Pomel
 AUTH SOURCE: Nouv. Mat. Fl. Atlant.:364 (1875)

Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: sylvestris (L.) Miller
 AUTH SOURCE: Gard. Dict. ed. 8 (1): (1768)
 SYNONYM: Brassica oleracea L.

Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica tournefortii
 SPECIES: tournefortii Gouan
 AUTH SOURCE: Ill. Observ. Bot. 44 (1773)

Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica junccea
 SPECIES: urbaniana O.E. Schulz
 AUTH SOURCE: Urban, Symb. Antill. 3,3:511 (1903)
 SYNONYM: Brassica junccea (L.) Czern. & Coss.

Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea
 SPECIES: villosa Biv.
 AUTH SOURCE: Stirp. Rar. Sicilia 4:20 (1818)

Information is available in the Guide under this name.

GENUS: Brassicella Fourr. GENOME: Coincya
 AUTH SOURCE: Annal. Soc. Linn. Lyon, N.S. 16:330 (1868)
 SYNONYM: Coincya Porta & Rigo ex Rouy

Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: aegyptica (L.) Pignatti
 AUTH SOURCE: Atti Inst. Bot. Univ. Pav. ser. 5,12:149 (1956)
 SYNONYM: Cakile maritima Scop.

Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: aegytiaca Willd.
 AUTH SOURCE: Sp. Pl. 3:417 (1800)
 SYNONYM: Cakile maritima Scop.

Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile arabica
 SPECIES: arabica Velen. & Bornm.
 AUTH SOURCE: Repert. Spec. Nov. Regni Veg. 9:114 (1911)

Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: arctica Pobedimova
 AUTH SOURCE: Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS 15:64 (1953)

Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: baltica Jordan ex Pobedimova
 AUTH SOURCE: Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS 15:66 (1953)
 SYNONYM: Cakile maritima ssp. baltica (Jordan ex Rouy & Foucaud) Hyl. ex P.W. Ball

Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: constricta Rodman
 AUTH SOURCE: Contrib. Gray Herbarium 205:131 (1974)
 Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: edentula (Bigelow) Hook.
 AUTH SOURCE: Fl. Bor-Amer. 1:59 (1833)
 SUBSPECIES: ssp. edentula;
 ssp. harperi (Small) Rodman, Contrib. Gray Herb. 205:125 (1974);
 ssp. islandica (Gand.) A. & D. Love, Bot. Not. 114:52 (1961)
 SYNONYM: Cakile maritima Scop. (North American component)
 Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: euxina Pobedimova
 AUTH SOURCE: Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk. SSSR 15:71 (1953)
 SYNONYM: Cakile maritima ssp. euxina (Pobedimova) E. I. Nyárády
 Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: fusiformis Greene
 AUTH SOURCE: Pittonia 3:346 (1900)
 SYNONYM: Cakile lanceolata ssp. fusiformis (Greene) Rodman
 Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: geniculata (Robinson) Millsp.
 AUTH SOURCE: Field Columb. Mus. Bot. 2, 2:126 (1900)
 SYNONYM: Cakile lanceolata (Willd.) O.E. Schulz
 Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: harperi Small
 AUTH SOURCE: Fl. S.E. United States :478 (1903)
 SYNONYM: Cakile edentula ssp. harperi (Small) Rodman
 Information is available in the Guide under the synonym.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: lanceolata (Willd.) O.E. Schulz
 AUTH SOURCE: Urban, Symb. Antill. 3, 3:504 (1903)
 SUBSPECIES: ssp. alacranensis (Millsp.) Rodman, Contrib. Gray Herb. 205:116 (1974);
 ssp. fusiformis (Greene) Rodman, Contrib. Gray Herb. 205:114 (1974);
 ssp. lanceolata;
 ssp. pseudoconstricta Rodman, Contrib. Gray Herb. 205:116 (1974)
 SYNONYM: Cakile maritima Scop.
 Information is available in the Guide under this name.

GENUS: Cakile GENOME: Cakile maritima
 SPECIES: maritima Scop.
 AUTH SOURCE: Fl. Carn. ed.2 2:35 (1772)
 SUBSPECIES: ssp. aegyptiaca (Willd.) Nyman, Consp. :29 (1878);
 ssp. baltica (Jordan ex Rouy & Foucaud) Hyl. ex P.W. Ball, Feddes Report. 69:37 (1964);
 ssp. euxina (Pobedimova) E. I. Nyárády: Savul., Fl. Rep. Pop. Române 3:480 (1955);
 ssp. integrifolia (Hornem.) Greuter & Burdet: Greuter et al., Med-Checklist 3 (1986);
 ssp. maritima
 Information is available in the Guide under this name.

GENUS: Carrichtera GENOME: Carrichtera annua
 SPECIES: annua (L.) DC.
 AUTH SOURCE: Mém. Mus. Hist. Nat. Paris 7:250 (1821)
 SYNONYM: Vella annua L.
 Information is available in the Guide under this name.

GENUS: Ceratocnemum GENOME: Ceratocnemum rapistroides
 SPECIES: rapistroides Coss. & Bal.
 AUTH SOURCE: Coss., Bull. Soc. Bot. Fr. 20:239 (1873)
 Information is available in the Guide under this name.

GENUS: <u>Chalcanthus</u>	GENOME: Chalcanthus renifolius
SPECIES: <u>renifolius</u> Boiss.	
AUTH SOURCE: Fl. Orient. 1:212 (1867)	
Information is available in the Guide under this name.	
GENUS: <u>Chalcanthus</u>	GENOME: Chalcanthus tuberosus
SPECIES: <u>tuberosus</u> Kom.	
AUTH SOURCE: Act. Hort. Petropol. 26(2):613 (1910)	
Information is available in the Guide under this name.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>cheiranthos</u> (Vill.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:86 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>recurvata</u> (All.) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>coincyooides</u> (Humbert & Maire) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>recurvata</u> (All.) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>hispida</u> (Cav.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>hispida</u> (Cav.) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>johnstonii</u> (Samp.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>recurvata</u> (All.) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>leptocarpa</u> (González-Albo) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SYNONYM: <u>Coincyia rupestris</u> spp. <u>leptocarpa</u> (González-Albo) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>longirostra</u> (Boiss.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
Information is available in the Guide under this name.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>monensis</u> (L.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SUBSPECIES: ssp. <u>hispida</u> (Cav.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:381 (1990);	
ssp. <u>monensis</u> ;	
ssp. <u>nevadensis</u> (Willk.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:384 (1990);	
ssp. <u>puberula</u> (Pau) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:383 (1990);	
ssp. <u>recurvata</u> (All.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:370 (1990)	
Information is available in the Guide under this name.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>pseudoerucastrum</u> (Brot.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>recurvata</u> (All.) Leadlay	
Information is available in the Guide under the synonym.	
GENUS: <u>Coincyia</u>	GENOME: Coincyia
SPECIES: <u>puberula</u> (Pau) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:88 (1983)	
SYNONYM: <u>Coincyia monensis</u> ssp. <u>puberula</u> (Pau) Leadlay	
Information is available in the Guide under the synonym.	

GENUS: <u>Coincya</u>	GENOME: Coincya
SPECIES: <u>richeri</u> (Vill.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 13:87 (1983)	
Information is available in the Guide under this name.	
GENUS: <u>Coincya</u>	GENOME: Coincya
SPECIES: <u>rupestris</u> Porta & Rigo ex Rouy	
AUTH SOURCE: Deyrolle, Naturaliste (Paris) 2(13):248 (1891)	
SUBSPECIES: ssp. <u>Leptocarpa</u> (González-Albo) Leadlay: Leadlay and Heywood, Bot. J. Linn. Soc. 102:364;	
ssp. <u>rupestris</u>	
Information is available in the Guide under this name.	
GENUS: <u>Coincya</u>	GENOME: Coincya
SPECIES: <u>transtagana</u> (Cout.) Clemente & Hernández-Bermejo	
AUTH SOURCE: Lagascalia 14:138 (1986)	
SYNONYM: <u>Rhynchosinapis transtagana</u> (Cout.) P. Silva; <u>Hutera hispida</u> ssp. <u>transtagana</u> (Cout.) Gómez-Campo	
Information is available in the Guide under this name.	
GENUS: <u>Coincya</u>	GENOME: Coincya
SPECIES: <u>wrightii</u> (O.E. Schulz) Stace	
AUTH SOURCE: Watsonia 17:443 (1989)	
SYNONYM: <u>Rhynchosinapis wrightii</u> (O.E. Schulz) Dandy ex Clapham; <u>Hutera wrightii</u> (O.E. Schulz) Gómez-Campo	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia austriaca
SPECIES: <u>austriaca</u> (Jacq.) Sweet	
AUTH SOURCE: Hort. Brit. 1:25 (1826)	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia clavata
SPECIES: <u>clavata</u> Boiss.	
AUTH SOURCE: Ann. Sci. Nat. Bot. ser. 2,17:84 (1842)	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia grandiflora
SPECIES: <u>grandiflora</u> Boiss. & Heldr.	
AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 1, 8:25 (1849)	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia orientalis
SPECIES: <u>orientalis</u> (L.) Andrzejowski ex DC.	
AUTH SOURCE: DC., Reg. Veg. Syst. Nat. 2:508 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia clavata
SPECIES: <u>perfoliata</u> (C.A. Meyer) N. Busch	
AUTH SOURCE: Kom., Fl. SSSR 8:497 (1939)	
SYNONYM: <u>Conringia clavata</u> Boiss.	
Information is available in the Guide under the synonym.	
GENUS: <u>Conringia</u>	GENOME: Conringia persica
SPECIES: <u>persica</u> Boiss.	
AUTH SOURCE: Diagn. Pl. Orient. ser. 1(6):12 (1845)	
Information is available in the Guide under this name.	
GENUS: <u>Conringia</u>	GENOME: Conringia planisiliqua
SPECIES: <u>planisiliqua</u> Fischer & C.A. Meyer	
AUTH SOURCE: Index Sem. Hort. Petropol. 3:32 (1837)	
Information is available in the Guide under this name.	
GENUS: <u>Cordylocarpus</u>	GENOME: Cordylocarpus muricatus
SPECIES: <u>muricatus</u> Desf.	
AUTH SOURCE: Fl. Atlant. 2:79, t. 152 (1798)	
Information is available in the Guide under this name.	

GENUS: <u>Cossonia</u>	GENOME: <u>Raffenaldia primuloides</u>
SPECIES: <u>africana</u> Durieu	
AUTH SOURCE: Ann. Sci. Nat. Bot. 3 ser. 20:83 (1853)	
SYNONYM: <u>Raffenaldia primuloides</u> Godr.	
Information is available in the Guide under the synonym.	
GENUS: <u>Cossonia</u>	GENOME: <u>Raffenaldia platycarpa</u>
SPECIES: <u>platycarpa</u> Coss.	
AUTH SOURCE: Illustr. Fl. Atlant. 1:54 (1884)	
SYNONYM: <u>Raffenaldia platycarpa</u> (Coss.) Stapf	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe abyssinica</u>
SPECIES: <u>abyssinica</u> Hochst. ex O.E. Schulz	
AUTH SOURCE: Engler, Pflanzenr. IV. 105 (Heft 68-70):243 (1919)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe orientalis</u>
SPECIES: <u>alutacea</u> Hand.-Mazz.	
AUTH SOURCE: Ann. K. K. Naturhist. Hofmus. 27:53 (1913)	
SYNONYM: <u>Crambe orientalis</u> var. <u>alutacea</u> (Hand.-Mazz.) Hedge & Hub-Mor., Notes R. B. G. Edinb. 26:181 (1965)	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe strigosa</u>
SPECIES: <u>arborea</u> Webb ex Christ	
AUTH SOURCE: Engler, Bot. Jahrb. 9:94 (1887)	
SYNONYM: <u>Crambe strigosa</u> var. <u>arborea</u> (Webb) O.E. Schulz, Engler, Pflanzenr. IV 105 (Heft 68-70):249 (1919)	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe tataria</u>
SPECIES: <u>aspera</u> M. Bieb.	
AUTH SOURCE: Fl. Taur.-Cauc. 2:90 (1808)	
SYNONYM: <u>Crambe tataria</u> var. <u>aspera</u> (M. Bieb.) Boiss., Fl. Orient. 1:406 (1867)	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe orientalis</u>
SPECIES: <u>aucheri</u> Boiss.	
AUTH SOURCE: Ann. Sci. Nat. Bot. ser. 2,17:388 (1842)	
SYNONYM: <u>Crambe orientalis</u> var. <u>aucheri</u> Boiss., Fl. Orient. 1:407 (1867)	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe cordifolia</u>
SPECIES: <u>cordifolia</u> Steven	
AUTH SOURCE: Mém. Soc. Nat. Moscou 3:267 (1812)	
SUBSPECIES: ssp. <u>cordifolia</u> ; ssp. <u>kotschyana</u> (Boiss.) Jafri, Nasir & Ali, Fl. W. Pakistan 55:37 (1973)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe edentula</u>
SPECIES: <u>edentula</u> Fischer & C.A. Meyer	
AUTH SOURCE: Bull. Soc. Impér. Natural. Moscou 2:145 (1839)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe filiformis</u>
SPECIES: <u>filiformis</u> Jacq.	
AUTH SOURCE: Icon. Pl. Rar. 3:8 (1786-1793)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe fruticosa</u>
SPECIES: <u>fruticosa</u> L. f.	
AUTH SOURCE: Suppl. Pl. :299 (1781)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe tataria</u>
SPECIES: <u>gibberosa</u> Rupr.	
AUTH SOURCE: Mém. Acad. Sci. Pétersb. 7, ser. 15, 2:136 (1869)	
SYNONYM: <u>Crambe tataria</u> var. <u>aspera</u> (M. Bieb.) Boiss., Fl. Orient. 1:406 (1867)	
Information is available in the Guide under the synonym.	

GENUS: Crambe GENOME: Crambe orientalis
 SPECIES: glaberrima (Bornm.) Greuter & Burdet
 AUTH SOURCE: Willdenowia 15:417 (1986)
 SYNONYM: Crambe orientalis var. glaberrima (Bornm.) O.E. Schulz ex Bornm.,
Notizbl. Bot. Gart. Berl. 7, 64:141 (1917)
 Information is available in the Guide under the synonym.

GENUS: Crambe GENOME: Crambe strigosa
 SPECIES: gomeraea Webb ex Christ
 AUTH SOURCE: Engler, Bot. Jahrb. 9:94 (1887)
 SYNONYM: Crambe strigosa L'Hér.
 Information is available in the Guide under the synonym.

GENUS: Crambe GENOME: Crambe gordaginii
 SPECIES: gordaginii Sprygin & Popov
 AUTH SOURCE: Korovin, Kult. & Popov, Descr. Pl. Nov. Turkestan :87 (1916)
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe tataria
 SPECIES: grandiflora DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:652 (1821)
 SYNONYM: Crambe tataria Sebeók, aggr.
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe hispanica
 SPECIES: hispanica L.
 AUTH SOURCE: Sp. Pl. :671 (1753)
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe orientalis
 SPECIES: juncea M. Bieb.
 AUTH SOURCE: Fl. Taur.-Caus. 3:421 (1819)
 SYNONYM: Crambe orientalis var. juncea (M. Bieb.) O.E. Schulz,
Engler, Pflanzenr. IV. 105 (Heft 68-70):238 (1919)
 Information is available in the Guide under the synonym.

GENUS: Crambe GENOME: Crambe kilimandscharica
 SPECIES: kilimandscharica O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe orientalis
 SPECIES: koktebelica (Junge) N. Busch
 AUTH SOURCE: Kuzn. & al., Fl. Caucas. Crit. 4, 3:296 (1908)
 SYNONYM: Crambe orientalis var. koktebelica (Junge) O.E. Schulz,
Engler, Pflanzenr. IV 105 (Heft 68-70):239 (1919)
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe cordifolia
 SPECIES: kotschyana Boiss.
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 6:19 (1845)
 SYNONYM: Crambe cordifolia ssp. kotschyana (Boiss.) Jafri
 Information is available in the Guide under the synonym.

GENUS: Crambe GENOME: Crambe kralikii
 SPECIES: kralikii Coss. ex Reboud
 AUTH SOURCE: Bull. Soc. Bot. France 4:466 (1857)
 SUBSPECIES: ssp. garamas (Maire) Podl., Mitt. Bot. Staatssaml. München 17:475 (1981);
 ssp. kralikii
 Information is available in the Guide under this name.

GENUS: Crambe GENOME: Crambe laevigata
 SPECIES: laevigata DC. ex Christ
 AUTH SOURCE: Engler, Bot. Jahrb. 9:94 (1887)
 Information is available in the Guide under this name.

GENUS: <u>Crambe</u>	GENOME: <u>Crambe maritima</u>
SPECIES: <u>maritima</u> L.	
AUTH SOURCE: Sp. Pl. :671 (1753)	
SYNONYM: <u>Crambe hispanica</u> L.	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe orientalis</u>
SPECIES: <u>mitridatis</u> Juz.	
AUTH SOURCE: Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk. SSSR 14:9 (1951)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe orientalis</u>
SPECIES: <u>orientalis</u> L.	
AUTH SOURCE: Sp. Pl. :671 (1753)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe tataria</u> aggr.
SPECIES: <u>parviflora</u> Huber-Morath & Reese	
AUTH SOURCE: Repert. Spec. Nov. Regni Veg. 48:276 (1940)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe persica</u>
SPECIES: <u>persica</u> Boiss.	
AUTH SOURCE: Ann. Sci. Nat. Bot. 2 ser. 17:389 (1842)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe tataria</u> aggr.
SPECIES: <u>pinnatifida</u> R. Br.	
AUTH SOURCE: Aiton, Hort. Kew. ed. 2,4:72 (1812)	
SYNONYM: <u>Crambe tataria</u> var. <u>pinnatifida</u> (R. Br.) O.E. Schulz, Engler, Pflanzenr. IV 105 (Heft 68-70):235 (1919)	
Information is available in the Guide under the synonym.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe strigosa</u>
SPECIES: <u>pritzelii</u> Bolle	
AUTH SOURCE: Ind. Sem. Hort. Berol. :10 (1861)	
SYNONYM: <u>Crambe strigosa</u> L'Hér.	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe scaberrima</u>
SPECIES: <u>scaberrima</u> Webb ex Bramwell	
AUTH SOURCE: Cuad. Bot. Canar. 17:22 (1973)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe schugnana</u>
SPECIES: <u>schugnana</u> Korsh.	
AUTH SOURCE: Bull. Acad. Sci. St. Pétersb. 5, ser. 9,5:422 (1898)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe scoparia</u>
SPECIES: <u>scoparia</u> Svent.	
AUTH SOURCE: Bot. Inst. Nac. Invest. Agron., Madrid 13, 28:23 (1953)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe sinuato-dentata</u>
SPECIES: <u>sinuato-dentata</u> Hochst. ex Petri	
AUTH SOURCE: Schweinfurth, Beitr. Fl. Aethiop. 1:238 (1867)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe tataria</u> aggr.
SPECIES: <u>steveniana</u> Rupr.	
AUTH SOURCE: Mém. Acad. Imp. Sci. St. Pétersb. ser. 7, 15(2):136 (1869)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: <u>Crambe strigosa</u>
SPECIES: <u>strigosa</u> L'Hér.	
AUTH SOURCE: Stirp. Nov. Fasc. 6:151 (1785)	
Information is available in the Guide under this name.	

GENUS: <u>Crambe</u>	GENOME: Crambe sventenii
SPECIES: <u>sventenii</u> B. Petters ex Bramwell & Sundell	
AUTH SOURCE: Cuad. Bot. Canar. 17:21 (1973)	
Information is available in the Guide under this name.	
GENUS: <u>Crambe</u>	GENOME: Crambe tataria
SPECIES: <u>tataria</u> Sebeók	
AUTH SOURCE: Medico-Bot. Tatar. :7 (1779)	
Information is available in the Guide under this name.	
GENUS: <u>Crambella</u>	GENOME: Crambella teretifolia
SPECIES: <u>teretifolia</u> (Batt. & Trabut) Maire	
AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 15:74 (1924)	
Information is available in the Guide under this name.	
GENUS: <u>Didesmus</u>	GENOME: Didesmus aegyptius
SPECIES: <u>aegyptius</u> (L.) Desv.	
AUTH SOURCE: J. Bot. Agric. 3:160 (1814)	
Information is available in the Guide under this name.	
GENUS: <u>Didesmus</u>	GENOME: Didesmus bipinnatus
SPECIES: <u>bipinnatus</u> (Desf.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:659 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis acris
SPECIES: <u>acris</u> (Forssk.) Boiss.	
AUTH SOURCE: Fl. Orient. 1:389 (1867)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis assurgens-tenuisiliqua
SPECIES: <u>assurgens</u> (Del.) Gren.	
AUTH SOURCE: Fl. Massil. adv. 14 (1857)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis berthautii
SPECIES: <u>berthautii</u> Braun-Blanq. & Maire	
AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 13:180 (1922)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis brachycarpa
SPECIES: <u>brachycarpa</u> Godr.	
AUTH SOURCE: Mém. Acad. Stanislas 3(17):374 (1854)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis ibicensis-siettiana
SPECIES: <u>brevisiliqua</u> (Coss.) Martínez-Laborde	
AUTH SOURCE: Willdenowia 21:66 (1991)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis catholica-virgata
SPECIES: <u>catholica</u> (L.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:632 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis cossoniana
SPECIES: <u>cossoniana</u> (Reut. ex Boiss.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis harra
SPECIES: <u>crassifolia</u> (Raf.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:629 (1821)	
SYNONYM: <u>Diplotaxis harra</u> ssp. <u>crassifolia</u> (Raf.) Maire	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: Diplotaxis tenuifolia-simplex
SPECIES: <u>cretacea</u> Kotov	
AUTH SOURCE: Klokov et al., Ukr. Bot. Zhurn. 3:17 (1926)	
Information is available in the Guide under this name.	

GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis erucoides</u>
SPECIES: <u>erucoides</u> (L.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:631 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis cossoniana</u>
SPECIES: <u>erucoides</u> ssp. <u>cossoniana</u> (Boiss.) Martínez-Laborde	
AUTH SOURCE: Bot. J. Linn. Soc. 106:68 (1991)	
SYNONYM: <u>Diplotaxis cossoniana</u> (Reut. ex Boiss.) O.E. Schulz	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis cossoniana</u>
SPECIES: <u>erucoides</u> ssp. <u>longisiliqua</u> (Coss.) Gómez-Campo	
AUTH SOURCE: Anal. Jard. Bot. Madrid 38:30 (1981)	
SYNONYM: <u>Diplotaxis cossoniana</u> (Reut. ex Boiss.) O.E. Schulz	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>glaуca</u> (J. A. Schmidt) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)	
SYNONYM: <u>Diplotaxis harra</u> ssp. <u>glaуca</u> (J.A. Schmidt) Sobrino	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis ibicensis-siettiana</u>
SPECIES: <u>gomez-campoi</u> Martínez-Laborde	
AUTH SOURCE: Willdenowia 21:66 (1991)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>gracilis</u> (Webb) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis griffithii</u>
SPECIES: <u>griffithii</u> (Hook f. & Thomson) Boiss.	
AUTH SOURCE: Fl. Orient. 1:388 (1867)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>harra</u> (Forssk.) Boiss.	
AUTH SOURCE: Fl. Orient. 1:388 (1867)	
SUBSPECIES: ssp. <u>crassifolia</u> (Raf.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 24:198 (1933); ssp. <u>glaуca</u> (J.A. Schmidt) Sobrino, Candollea 48:137-144; ssp. <u>harra</u> ; ssp. <u>hirta</u> (Cheval) Sobrino, Candollea 48:137-144; ssp. <u>lagascana</u> (DC.) O. Bolòs & Vigo, Fl. Països Catal. 2:57 (1990); ssp. <u>numidica</u> Martínez-Laborde, [Ph.D. thesis 1988]	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>hirta</u> (Cheval) Rustan & Borgen	
AUTH SOURCE: Bocagiana (Funchal) 47:1-5 (1979)	
SYNONYM: <u>Diplotaxis harra</u> ssp. <u>hirta</u> (Cheval) Sobrino	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis ibicensis-siettiana</u>
SPECIES: <u>ibicensis</u> (Font Quer) Gómez-Campo	
AUTH SOURCE: Anal. Jard. Bot. Madrid 38:32 (1981)	
Information is available in the Guide under this name.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>Lagascana</u> DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:629 (1821)	
SYNONYM: <u>Diplotaxis harra</u> ssp. <u>Lagascana</u> (DC.) O. Bolòs & Vigo	
Information is available in the Guide under the synonym.	
GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis muralis</u>
SPECIES: <u>muralis</u> (L.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:634 (1821)	
SUBSPECIES: ssp. <u>ceratophylla</u> (Batt.) Martínez-Laborde, Bot. J. Linn. Soc. 106:69 (1991); ssp. <u>muralis</u>	
Information is available in the Guide under this name.	

GENUS: Diplotaxis GENOME: Diplotaxis nepalensis
 SPECIES: nepalensis Hara
 AUTH SOURCE: J. Jap. Bot. 49:129 (1974)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis ollivieri
 SPECIES: ollivieri Maire
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 28:335 (1937)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis pitardiana
 SPECIES: pitardiana Maire
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 9:175 (1918)

Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis ibicensis-siettiana
 SPECIES: siettiana Maire
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord. 24:198 (1933)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis siifolia
 SPECIES: siifolia G. Kunze
 AUTH SOURCE: Flora (Regensb.) 29:685 (1846)
 SUBSPECIES: ssp. bipinnatifida (Coss.) Martínez-Laborde, [Ph.D. thesis 1988];
 ssp. siifolia;
 ssp. vicentina (Cout.) Martínez-Laborde, [Ph.D. thesis 1988]

Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis tenuifolia-simplex
 SPECIES: simplex (Viv.) Spreng.
 AUTH SOURCE: Syst. Veg. 2:914 (1825)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis tenuifolia-simplex
 SPECIES: tenuifolia (L.) DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:632 (1821)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis assurgens-tenuisiliqua
 SPECIES: tenuisiliqua Del.
 AUTH SOURCE: Index Sem. Hort. Monspel. 12:7 (1847)
 SUBSPECIES: ssp. rupestris (Ball) Martínez-Laborde, Bot. J. Linn. Soc. 106:70 (1991);
 ssp. tenuisiliqua

Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis villosa
 SPECIES: villosa Boulos & Jallad
 AUTH SOURCE: Bot. Not. 128:365 (1975)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis viminea
 SPECIES: viminea (L.) DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:635 (1821)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis catholica-virgata
 SPECIES: virgata (Cav.) DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:631 (1821)
 Information is available in the Guide under this name.

GENUS: Diplotaxis GENOME: Diplotaxis "sahariensis"
 SPECIES: virgata f. sahariensis Coss.
 AUTH SOURCE: Comp. Fl. Atlant. 2:165 (1887)
 Information is available in the Guide under this name.

GENUS: <u>Diplotaxis</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>vogelii</u> (Webb) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Distomocarpus</u>	GENOME: <u>Rytidocarpus moricandoides</u>
SPECIES: <u>maroccanus</u> O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):53 (1916)	
SYNONYM: <u>Rytidocarpus moricandoides</u> Coss.	
Information is available in the Guide under the synonym.	
GENUS: <u>Dolichorhynchus</u>	GENOME: <u>Dolichorhynchus arabicus</u>
SPECIES: <u>arabicus</u> Hedge & Kit Tan	
AUTH SOURCE: Pl. Syst. Evol. 156:197 (1987)	
Information is available in the Guide under this name.	
GENUS: <u>Douepia</u>	GENOME: <u>Douepia tortuosa</u>
SPECIES: <u>tortuosa</u> Cambess.	
AUTH SOURCE: Jacquem., Voy. Ind. Bot. 4:18 (1844)	
Information is available in the Guide under this name.	
GENUS: <u>Enarthrocarpus</u>	GENOME: <u>Enarthrocarpus arcuatus</u>
SPECIES: <u>arcuatus</u> Labill.	
AUTH SOURCE: Icon. Pl. Syr. 5:4 (1812)	
Information is available in the Guide under this name.	
GENUS: <u>Enarthrocarpus</u>	GENOME: <u>Enarthrocarpus clavatus</u>
SPECIES: <u>clavatus</u> Del. ex Godr.	
AUTH SOURCE: Mém. Acad. Sci. Montpellier, sect. Méd. 1:412 (1853)	
Information is available in the Guide under this name.	
GENUS: <u>Enarthrocarpus</u>	GENOME: <u>Enarthrocarpus lyratus</u>
SPECIES: <u>lyratus</u> (Forssk.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:661 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Enarthrocarpus</u>	GENOME: <u>Enarthrocarpus pterocarpus</u>
SPECIES: <u>pterocarpus</u> (Pers.) DC.	
AUTH SOURCE: Reg. Veg. Syst. Nat. 2:661 (1821)	
Information is available in the Guide under this name.	
GENUS: <u>Enarthrocarpus</u>	GENOME: <u>Enarthrocarpus strangulatus</u>
SPECIES: <u>strangulatus</u> Boiss.	
AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:44 (1849)	
Information is available in the Guide under this name.	
GENUS: <u>Eremophyton</u>	GENOME: <u>Eremophyton chevallieri</u>
SPECIES: <u>chevallieri</u> (Barr.) Bég.	
AUTH SOURCE: Bull. Soc. Bot. Ital. :102 (1913)	
Information is available in the Guide under this name.	
GENUS: <u>Eruca</u>	GENOME: <u>Eruca loncholoma</u>
SPECIES: <u>loncholoma</u> (Pomel) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Eruca</u>	GENOME: <u>Eruca vesicaria</u>
SPECIES: <u>pinnatifida</u> (Desf.) Pomel	
AUTH SOURCE: Nouv. Mat. Fl. Atl. :367 (1875)	
SYNONYM: <u>Eruca vesicaria</u> ssp. <u>pinnatifida</u> (Desf.) Emb. & Maire	
Information is available in the Guide under the synonym.	
GENUS: <u>Eruca</u>	GENOME: <u>Eruca vesicaria</u>
SPECIES: <u>sativa</u> Mill.	
AUTH SOURCE: Gard. Dict. ed.8(1) (1768)	
SYNONYM: <u>Eruca vesicaria</u> ssp. <u>sativa</u> (Mill.) Thell.	
Information is available in the Guide under the synonym.	
GENUS: <u>Eruca</u>	GENOME: <u>Eruca setulosa</u>
SPECIES: <u>setulosa</u> Boiss. & Reut.	
AUTH SOURCE: Boiss., Diagn. Pl. Orient. ser. 2, 5:26 (1856)	
Information is available in the Guide under this name.	

GENUS: Eruca GENOME: Eruca vesicaria
 SPECIES: vesicaria (L.) Cav.
 AUTH SOURCE: Descr. Pl. 426 (1802)
 SUBSPECIES: ssp. pinnatifida (Desf.) Emb. & Maire: Jahandiez & Maire, Cat. Maroc 1004 (1941);
 ssp. sativa (Mill.) Thell., Ill. Fl. Mitteleur. 4(1):201 (1918);
 ssp. vesicaria

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria pinnata
 SPECIES: aegiceras J. Gay
 AUTH SOURCE: Steudel, Nomencl. ed.1, 2:590 (1840)
 SYNONYM: Erucaria pinnata (Viv.) Täckh. & Boulos

Information is available in the Guide under the synonym.

GENUS: Erucaria GENOME: Erucaria bornmuelleri
 SPECIES: bornmuelleri O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria rostrata
 SPECIES: boveana Coss.
 AUTH SOURCE: Coss. & Barratte, Illustr. Fl. Atlant. Fasc. 2, 1:45 (1884)
 SYNONYM: Erucaria rostrata (Boiss.) Greuter & Burdet

Information is available in the Guide under the synonym.

GENUS: Erucaria GENOME: Erucaria cakiloidea
 SPECIES: cakiloidea (DC.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria crassifolia
 SPECIES: crassifolia (Forssk.) Del.
 AUTH SOURCE: Descr. Egypt. Illustr. in Mém. Bot. 4:20 (1813)

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria erucariooides
 SPECIES: erucariooides (Coss. & Durieu) C. Mueller
 AUTH SOURCE: Ann. Bot. Syst. 7:178 (1868)
 SYNONYM: Reboudia erucariooides Coss. & Durieu

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria hispanica
 SPECIES: hispanica (L.) Druce
 AUTH SOURCE: Rep. Bot. Exch. Club Soc. Brit. Isles 3:418 (1914)
 SYNONYM: Erucaria myagroides (L.) Halász

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria microcarpa
 SPECIES: microcarpa Boiss.
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:47 (1849)
 SYNONYM: Reboudia pinnata (Viv.) O.E. Schulz

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria hispanica
 SPECIES: myagroides (L.) Halász
 AUTH SOURCE: Conspl. Fl. Graec. 1:123 (1900)
 SYNONYM: Erucaria hispanica (L.) Druce

Information is available in the Guide under the synonym.

GENUS: Erucaria GENOME: Erucaria ollivieri
 SPECIES: ollivieri Maire
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 30:331 (1940)

Information is available in the Guide under this name.

GENUS: Erucaria GENOME: Erucaria pinnata
 SPECIES: pinnata (Viv.) Täckh. & Boulos
 AUTH SOURCE: Publ. Cairo Univ. Herb. 5:37 (1974)
 SUBSPECIES: ssp. pinnata;
 ssp. uncata (Boiss.) Greuter & Burdet, Willdenowia 13:88 (1983)

Information is available in the Guide under this name.

GENUS: <u>Erucaria</u>	GENOME: <u>Erucaria rostrata</u>
SPECIES: <u>rostrata</u> (Boiss.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 15:419 (1986)	
Information is available in the Guide under this name.	
GENUS: <u>Erucaria</u>	GENOME: <u>Erucaria pinnata</u>
SPECIES: <u>uncata</u> (Boiss.) Aschers. & Schweinf.	
AUTH SOURCE: Mém. Inst. Egypt 2:40 (1889)	
SYNONYM: <u>Erucaria pinnata</u> ssp. <u>uncata</u> (Boiss.) Greuter & Burdet	
Information is available in the Guide under the synonym.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum arabicum-abyssinicum</u>
SPECIES: <u>abyssinicum</u> (A. Rich.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119): (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum arabicum-abyssinicum</u>
SPECIES: <u>arabicum</u> Fischer & C.A. Meyer	
AUTH SOURCE: Ind. Sem. Hort. Petrop. 5:35 (1839)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum brevirostre</u>
SPECIES: <u>brevirostre</u> (Maire) Gómez-Campo	
AUTH SOURCE: Anal. Jard. Bot. Madrid 41:85 (1984)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum canariense-cardaminoides</u>
SPECIES: <u>canariense</u> Webb & Berthel.	
AUTH SOURCE: Hist. Nat. Canary Is. :81 (1836-1840)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum canariense-cardaminoides</u>
SPECIES: <u>cardaminoides</u> (Webb) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum elatum</u>
SPECIES: <u>elatum</u> (Ball) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
SYNONYM: <u>Erucastrum laevigatum</u> ssp. <u>elatum</u> (Ball) Maire & Weiller; <u>Brassica elata</u> Ball	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum elgonense</u>
SPECIES: <u>elgonense</u> Jonsell	
AUTH SOURCE: Bot. Notiser 132:529 (1979)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum gallicum</u>
SPECIES: <u>gallicum</u> (Willd.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum ifniense</u>
SPECIES: <u>ifniense</u> Gómez-Campo	
AUTH SOURCE: Anal. Jahrb. Bot. Madrid 41:84 (1984)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum virgatum</u>
SPECIES: <u>laevigatum</u> (L.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
SYNONYM: <u>Erucastrum elatum</u> (Ball) O.E. Schulz; <u>Erucastrum littoreum</u> (Pau & Font Quer) Maire; <u>Erucastrum virgatum</u> (J. C. Presl) C. Presl	
Information is available in the Guide under the synonyms.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum nasturtiifolium-leucanthum</u>
SPECIES: <u>leucanthum</u> Coss. & Durieu ex Coss.	
AUTH SOURCE: Bull. Soc. Bot. Fr. 2:307 (1855)	
Information is available in the Guide under this name.	

GENUS: *Erucastrum* GENOME: *Brassica fruticulosa*
 SPECIES: *Littoreum* (Pau & Font Quer) Maire
 AUTH SOURCE: Cavanillesia 2:46 (1929)
 SUBSPECIES: ssp. *brachycarpum* (Maire & Weiller) Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);
 ssp. *glabrum* (Maire) Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);
 ssp. *Littoreum* (Pau & Font Quer) Maire, sensu Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);
 SYNONYM: *Erucastrum laevigatum* ssp. *Littoreum* (Pau & Font Quer) Maire;
Erucastrum laevigatum ssp. *glabrum* Maire
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum meruense*
 SPECIES: *meruense* Jonsell
 AUTH SOURCE: Bot. Notiser 132:530 (1979)
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum nasturtiifolium-leucanthum*
 SPECIES: *nasturtiifolium* (Poiret) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum arabicum-abyssinicum*
 SPECIES: *pachypodium* (Chiov.) Jonsell
 AUTH SOURCE: Bot. Notiser 129:127 (1976)
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum nasturtiifolium-leucanthum*
 SPECIES: *palustre* (Pirona) Vis.
 AUTH SOURCE: Linnaea 28:365 (1856)
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Brassica fruticulosa*
 SPECIES: *rifanum* (Emb. & Maire) Gómez-Campo
 AUTH SOURCE: Anal. Jard. Bot. Madrid 38:353 (1982)
 SYNONYM: *Brassica fruticulosa* ssp. *rifana* (Emb. & Maire) Maire;
Brassica rifana Emberger & Maire
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum strigosum*
 SPECIES: *strigosum* (Thunb.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)
 Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum varium*
 SPECIES: *thellungi* O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)
 SYNONYM: *Erucastrum varium* ssp. *incrassatum* (Thell.) Maire
 Information is available in the Guide under the synonym.

GENUS: *Erucastrum* GENOME: *Erucastrum varium*
 SPECIES: *varium* Durieu
 AUTH SOURCE: Expl. Sci. Algérie, Bot. Atlas: t. 75 (1849)
 SUBSPECIES: ssp. *barbei* Vindt, Compt.-Rend. Séances Mens. Soc. Sci. Nat. Maroc 21:96 (1955);
 ssp. *brevirostre* (see *Erucastrum brevirostre*);
 ssp. *incrassatum* (Thell.) Maire, Mém. Soc. Sci. Nat. Maroc 17:26 (1928);
 ssp. *mesatlanticum* Maire & Wilczek, Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934);
 ssp. *subsifolium* Maire, Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934);
 ssp. *varium*

Information is available in the Guide under this name.

GENUS: *Erucastrum* GENOME: *Erucastrum virgatum*
 SPECIES: *virgatum* (J. C. Presl) C. Presl
 AUTH SOURCE: Fl. Sicula 1:94 (1826)
 SUBSPECIES: ssp. *baeticum* (Boiss.) Gómez-Campo, Anal. Jard. Bot. Madrid 40:66 (1983);
 ssp. *brachycarpum* (Rouy) Gómez-Campo, Anal. Jard. Bot. Madrid 40:68 (1983);
 ssp. *pseudosinapis* (Lange) Gómez-Campo, Anal. Jard. Bot. Madrid 40:68 (1983);
 ssp. *virgatum*
 SYNONYM: *Erucastrum laevigatum* (L.) O.E. Schulz
 Information is available in the Guide under this name.

GENUS: <u>Euzomodendron</u>	GENOME: Euzomodendron bourgaeanum
SPECIES: <u>bourgaeanum</u> Coss.	
AUTH SOURCE: Notes Pl. Crit. Midi Espagne 4:145 (1852)	
Information is available in the Guide under this name.	
GENUS: <u>Fabrisinapis</u>	GENOME: Hemicrambe fruticosa
SPECIES: <u>fruticosus</u> C.C. Townsend	
AUTH SOURCE: Hooker's Icon. Plant. 7:1, t. 3673 (1971)	
SYNONYM: <u>Hemicrambe fruticosa</u> (C.C. Townsend) Gómez-Campo	
Information is available in the Guide under the synonym.	
GENUS: <u>Fezia</u>	GENOME: Fezia pterocarpa
SPECIES: <u>pterocarpa</u> Pitard	
AUTH SOURCE: Genre Cruc. Maroc :1 (1917)	
Information is available in the Guide under this name.	
GENUS: <u>Foleyola</u>	GENOME: Foleyola billotii
SPECIES: <u>billotii</u> Maire	
AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 16:90 (1925)	
Information is available in the Guide under this name.	
GENUS: <u>Fortuynia</u>	GENOME: Fortuynia garcinii
SPECIES: <u>aucheri</u> Shuttl. ex Boiss.	
AUTH SOURCE: Boiss., Ann. Sci. Nat. Bot. ser. 2,16:379 (1841)	
SYNONYM: <u>Fortuynia garcinii</u> (Burm.) Shuttl. ex Boiss.	
Information is available in the Guide under the synonym.	
GENUS: <u>Fortuynia</u>	GENOME: Fortuynia bungei
SPECIES: <u>bungei</u> Boiss.	
AUTH SOURCE: Fl. Orient. 1:402 (1867)	
Information is available in the Guide under this name.	
GENUS: <u>Fortuynia</u>	GENOME: Fortuynia garcinii
SPECIES: <u>garcinii</u> (Burm.) Shuttl. ex Boiss.	
AUTH SOURCE: Boiss., Ann. Sci. Nat. Bot. ser. 2., 17:178 (1842)	
Information is available in the Guide under this name.	
GENUS: <u>Guiraoa</u>	GENOME: Guiraoa arvensis
SPECIES: <u>arvensis</u> Coss.	
AUTH SOURCE: Notes Pl. Crit. Midi Espagne 3:98 (1851)	
Information is available in the Guide under this name.	
GENUS: <u>Hemicrambe</u>	GENOME: Hemicrambe fruticosa
SPECIES: <u>fruticosa</u> (C.C. Townsend) Gómez-Campo	
AUTH SOURCE: Lagascalia 7(2):189 (1978)	
Information is available in the Guide under this name.	
GENUS: <u>Hemicrambe</u>	GENOME: Hemicrambe fruticulosa
SPECIES: <u>fruticulosa</u> Webb	
AUTH SOURCE: Ann. Sci. Nat. Bot. ser. 3,16:248 (1851)	
Information is available in the Guide under this name.	
GENUS: <u>Henophyton</u>	GENOME: Henophyton deserti
SPECIES: <u>deserti</u> (Coss. & Durieu) Coss. & Durieu	
AUTH SOURCE: Ann. Sci. Nat. Bot. ser. 4,4:282 (1855)	
SUBSPECIES: ssp. <u>deserti</u> ;	
ssp. <u>zygarrhenum</u> (Maire) Greuter & Burdet, Willdenowia 13:93 (1983)	
Information is available in the Guide under this name.	
GENUS: <u>Hirschfeldia</u>	GENOME: Hirschfeldia incana
SPECIES: <u>incana</u> (L.) Lagrèze-Fossat	
AUTH SOURCE: Fl. Tarn Garonne :19 (1847)	
SUBSPECIES: ssp. <u>consobrina</u> (Pomel ex Batt.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 31:10 (1940);	
ssp. <u>geniculata</u> (Desf.) Maire: Jahandiez & Maire, Cat. Pl. Maroc :285 (1932);	
ssp. <u>incana</u> ;	
ssp. <u>Leptocarpa</u> Tsvelev, Novosti Sist. Vyssh. Rast. 14:249 (1977)	
SYNONYM: <u>Brassica adpressa</u> Boiss.;	
<u>Sinapis incana</u> L.	
Information is available in the Guide under this name.	

GENUS: Hirschfeldia GENOME: Hirschfeldia rostrata
 SPECIES: rostrata (Balf. f.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)
 SYNONYM: Brassica rostrata Balf. f., Proceed. Royal Soc. Edinburgh 11:500 (1882)
 Information is available in the Guide under this name.

GENUS: Hutera GENOME: Coincya
 AUTH SOURCE: Porta
 SYNONYM: Coincya Porta & Rigo ex Rouy
 Information is available in the Guide under the synonym.

GENUS: Kremeriella GENOME: Kremeriella cordylocarpus
 SPECIES: cordylocarpus (Coss. & Durieu ex Coss.) Maire
 AUTH SOURCE: Jahandiez & Maire, Cat. Pl. Maroc :293 (1932)
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: arvensis (L.) DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:626 (1821)
 SUBSPECIES:
 ssp. arvensis;
 ssp. nitens (Viv.) Maire, Bull. Soc. Hist. Afr. Nord 30:259 (1939);
 ssp. spinosa (Pomel) Batt.: Batt. & Trabut, Fl. Algérie 1:65 (1888);
 - ssp. suffruticosa (Desf.) Maire, Mém. Soc. Sci. Nat. Maroc. 21-22:5(1930)
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia moricandoides
 SPECIES: baetica Boiss. & Reut.
 AUTH SOURCE: Pugill. Pl. Afr. Bor. Hispan. :8 (1852)
 SYNONYM: Moricandia ramburii var. microsperma Willk., in Willk. & Lange, Prodr. Fl. Hispan. 4:869 (1880)
 Information is available in the Guide under the synonym.

GENUS: Moricandia GENOME: Moricandia foetida
 SPECIES: foetida Bourgeau ex Coss.
 AUTH SOURCE: Coss., Notes Pl. Crit. Midi Espagne 4:143 (1852)
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia foleyi
 SPECIES: foleyi Batt.
 AUTH SOURCE: Bull. Soc. Bot. Fr. 61:52 (1914)
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: longirostris Pomel
 AUTH SOURCE: Nouv. Mat. Fl. Atlant. :367 (1875)
 SYNONYM: Moricandia arvensis prol. longirostris (Pomel) O.E. Schulz,
 Engler, Pflanzenr. IV 105 (Heft 82):68 (1923);
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia moricandoides
 SPECIES: moricandoides (Boiss.) Heywood
 AUTH SOURCE: Feddes Repert. 66:154 (1962)
 SUBSPECIES:
 ssp. cavanillesiana (Font Quer & A. Bolós) Greuter & Burdet: Greuter et al.,
 Med.-Checklist 3 (1986);
 ssp. giennensis Valdés-Bermejo, Anal. Inst. Bot. Cavanilles 31(1):71 (1974);
 ssp. moricandoides
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: nitens (Viv.) Durieu & Barr.
 AUTH SOURCE: Prodr. Fl. Lib. :15 (1910)
 SYNONYM: Moricandia arvensis ssp. nitens (Viv.) Maire
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia moricandoides
 SPECIES: ramburii Webb
 AUTH SOURCE: Iter Hisp. :73 (1838)
 SYNONYM: Moricandia moricandoides (Boiss.) Heywood
 Information is available in the Guide under the synonym.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: sinaica (Boiss.) Boiss.
 AUTH SOURCE: Fl. Orient. 1:386 (1867)

Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: spinosa Pomel
 AUTH SOURCE: Nouv. Mat. Fl. Atlant. :365 (1874)
 SYNONYM: Moricandia arvensis ssp. spinosa (Pomel) Batt.
 Information is available in the Guide under this name.

GENUS: Moricandia GENOME: Moricandia arvensis
 SPECIES: suffruticosa (Desf.) Coss. & Durieu
 AUTH SOURCE: Coss., Ann. Sci. Nat. Bot. ser. 4,4:282 (1855)
 SYNONYM: Moricandia arvensis ssp. suffruticosa (Desf.) Maire
 Information is available in the Guide under this name.

GENUS: Morisia GENOME: Morisia monanthos
 SPECIES: monanthos (Viv.) Asch.
 AUTH SOURCE: W. Barbey, Fl. Sard. Comp. :173 (1884)
 Information is available in the Guide under this name.

GENUS: Muricaria GENOME: Muricaria prostrata
 SPECIES: prostrata (Desf.) Desv.
 AUTH SOURCE: J. Bot. Agric. 3, 4:159 (1814)
 Information is available in the Guide under this name.

GENUS: Otocarpus GENOME: Otocarpus virgatus
 SPECIES: virgatus Durieu
 AUTH SOURCE: Duchartre, Rev. Bot. Recueil Mens. 2:435 (1847)
 Information is available in the Guide under this name.

GENUS: Oudneya GENOME: -
 AUTH SOURCE: R. Brown
 SYNONYM: Henophyton Coss. & Durieu
 Information is available in the Guide under the synonym.

GENUS: Oudneya GENOME: Henophyton deserti
 SPECIES: africana R. Brown
 AUTH SOURCE: Dehn. & Clapperton, Narr. Travels Africa :220 (1826) [nom. illeg.]
 SYNONYM: Henophyton deserti (Coss. & Durieu) Coss. & Durieu
 Information is available in the Guide under the synonym.

GENUS: Oudneya GENOME: Henophyton deserti
 SPECIES: deserti (Coss. & Durieu) Bullock
 AUTH SOURCE: Kew Bull. 19:201 (1965)
 SYNONYM: Henophyton deserti (Coss. & Durieu) Coss. & Durieu
 Information is available in the Guide under the synonym.

GENUS: Oudneya GENOME: Henophyton deserti
 SPECIES: zygarrhena Maire
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 36:90 (1946)
 SYNONYM: Henophyton deserti ssp. zygarrhenum (Maire) Greuter & Burdet
 Information is available in the Guide under the synonym.

GENUS: Physorrhynchus GENOME: Physorrhynchus brahuicus
 SPECIES: brahuicus Hook.
 AUTH SOURCE: Icon. Pl. ser. 2,5:821 (1852)
 Information is available in the Guide under this name.

GENUS: Physorrhynchus GENOME: Physorrhynchus chamaerapistrum
 SPECIES: chamaerapistrum (Boiss.) Boiss.
 AUTH SOURCE: Fl. Orient. 1:403 (1867)
 Information is available in the Guide under this name.

GENUS: Pseuderucaria GENOME: Pseuderucaria clavata
 SPECIES: clavata (Boiss. & Reut.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)
 SUBSPECIES: ssp. clavata;
 ssp. tourneuxii (Coss.) Maire, Mém. Soc. Hist. Nat. Afr. Nord 3:110 (1933)
 Information is available in the Guide under this name.

GENUS: Pseuderucaria GENOME: Pseuderucaria teretifolia
 SPECIES: teretifolia (Desf.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)
 Information is available in the Guide under this name.

GENUS: Pseuderucaria GENOME: Pseuderucaria clavata
 SPECIES: tourneuxii (Coss.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)
 SYNONYM: Pseuderucaria clavata ssp. tourneuxii (Coss.) Maire
 Information is available in the Guide under the synonym.

GENUS: Pseudocytisus GENOME: Vella
 AUTH SOURCE: Kuntze
 SYNONYM: Vella L.
 Information is available in the Guide under the synonym.

GENUS: Pseudofortuynia GENOME: Pseudofortuynia esfandiarii
 SPECIES: esfandiarii Hedge
 AUTH SOURCE: Rech. f., Fl. Iranica 57:57 (1968)
 Information is available in the Guide under this name.

GENUS: Psychine GENOME: Psychine stylosa
 SPECIES: stylosa Desf.
 AUTH SOURCE: Fl. Atlant. 2:69 (1798)
 Information is available in the Guide under this name.

GENUS: Quezeliantha GENOME: Quezeliantha tibestica
 SPECIES: tibestica (H. Scholz) H. Scholz
 AUTH SOURCE: Taxon 31:558 (1982)
 Information is available in the Guide under this name.

GENUS: Raffenaldia GENOME: Raffenaldia platycarpa
 SPECIES: platycarpa (Coss.) Stapf
 AUTH SOURCE: Bot. Mag. :Tab 9267 (1932)
 Information is available in the Guide under this name.

GENUS: Raffenaldia GENOME: Raffenaldia primuloides
 SPECIES: primuloides Godr.
 AUTH SOURCE: Flor. Juvenal 1:5 (1853), Mém. Acad. Sci. Montpellier, Sect méd. 1:413 (1853)
 Information is available in the Guide under this name.

GENUS: Raphanus GENOME: Sinapis aucheri
 SPECIES: aucheri Boiss.
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:45 (1849)
 SYNONYM: Sinapis aucheri (Boiss.) O.E. Schulz
 Information is available in the Guide under the synonym.

GENUS: Raphanus GENOME: Raphanus
 SPECIES: caudatus L.
 AUTH SOURCE: Mantissa I.:95 (1767)
 SYNONYM: Raphanus sativus L.
 Information is available in the Guide under the synonym.

GENUS: Raphanus GENOME: Raphanus
 SPECIES: Landra Moretti ex DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:668 (1821)
 SYNONYM: Raphanus raphanistrum ssp. Landra (Moretti ex DC.) Bonnier & Layens
 Information is available in the Guide under the synonym.

GENUS: Raphanus GENOME: Raphanus
 SPECIES: maritimus Sm.
 AUTH SOURCE: Sowerby, Engl. Bot.: tab 1643 (1806)
 SYNONYM: Raphanus raphanistrum ssp. maritimus (Sm.) Thell.
 Information is available in the Guide under the synonym.

GENUS:	<u>Raphanus</u>	GENOME: Raphanus
SPECIES:	<u>microcarpus</u> (Lange) Willk.	
AUTH SOURCE:	Willk. & Lange, Prodr. Fl. Hispan. 3, 4:750 (1880)	
SYNONYM:	<u>Raphanus raphanistrum</u> ssp. <u>microcarpus</u> (Lange) Thell.	
Information is available in the Guide under the synonym.		
GENUS:	<u>Raphanus</u>	GENOME: Raphanus
SPECIES:	<u>raphanistrum</u> L.	
AUTH SOURCE:	Sp. Pl. :669 (1753)	
SUBSPECIES:	ssp. <u>landra</u> (Moretti ex DC.) Bonnier & Layens, Tabl. Syn. Pl. Vasc. Fl. France :21 (1894); ssp. <u>maritimus</u> (Sm.) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:278 (1918); ssp. <u>microcarpus</u> (Lange) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:275 (1918); ssp. <u>raphanistrum</u> ; ssp. <u>rostratus</u> (DC.) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:279 (1918)	
Information is available in the Guide under this name.		
GENUS:	<u>Raphanus</u>	GENOME: Raphanus
SPECIES:	<u>rostratus</u> DC.	
AUTH SOURCE:	Reg. Veg. Syst. Nat. 2:666 (1821)	
SYNONYM:	<u>Raphanus raphanistrum</u> ssp. <u>rostratus</u> (DC.) Thell.	
Information is available in the Guide under the synonym.		
GENUS:	<u>Raphanus</u>	GENOME: Raphanus
SPECIES:	<u>sativus</u> L.	
AUTH SOURCE:	Sp. Pl. :669 (1753)	
Information is available in the Guide under this name.		
GENUS:	<u>Rapistrella</u>	GENOME: Rapistrella ramosissima
SPECIES:	<u>ramosissima</u> Pomel	
AUTH SOURCE:	Mat. Fl. Atlant. :11 (1860)	
SYNONYM:	Hybrid between <u>Rapistrum rugosum</u> (L.) All. x <u>Cordylocarpus muricatus</u> Desf.	
Information is available in the Guide under this name.		
GENUS:	<u>Rapistrum</u>	GENOME: Rapistrum rugosum
SPECIES:	<u>hispanicum</u> (L.) Crantz	
AUTH SOURCE:	Class. Crucif. Emend.: 106 (1769)	
SYNONYM:	<u>Rapistrum rugosum</u> ssp. <u>linnaeanum</u> Rouy & Foucaud	
Information is available in the Guide under the synonym.		
GENUS:	<u>Rapistrum</u>	GENOME: Rapistrum rugosum
SPECIES:	<u>linnaeanum</u> Boiss. & Reut. [nom. illeg.]	
SYNONYM:	<u>Rapistrum rugosum</u> ssp. <u>linnaeanum</u> Rouy & Foucaud	
Information is available in the Guide under the synonym.		
GENUS:	<u>Rapistrum</u>	GENOME: Rapistrum rugosum
SPECIES:	<u>orientale</u> (L.) Crantz	
AUTH SOURCE:	Class. Crucif. Emend. :106 (1769)	
SYNONYM:	<u>Rapistrum rugosum</u>	
Information is available in the Guide under the synonym.		
GENUS:	<u>Rapistrum</u>	GENOME: Rapistrum perenne
SPECIES:	<u>perenne</u> (L.) All.	
AUTH SOURCE:	Fl. Pedem. 1:258 (1785)	
Information is available in the Guide under this name.		
GENUS:	<u>Rapistrum</u>	GENOME: Rapistrum rugosum
SPECIES:	<u>rugosum</u> (L.) All.	
AUTH SOURCE:	Fl. Pedem. 1:257 (1785)	
SUBSPECIES:	ssp. <u>linnaeanum</u> Rouy & Foucaud, Fl. France 2:73 (1895); ssp. <u>rugosum</u>	
Information is available in the Guide under this name.		
GENUS:	<u>Reboudia</u>	GENOME: Erucaria erucariooides
SPECIES:	<u>erucariooides</u> Coss. & Durieu	
AUTH SOURCE:	Bull. Soc. Bot. Fr. 3:705 (1856)	
SYNONYM:	<u>Erucaria erucariooides</u> (Coss. & Durieu) C. Mueller	
Information is available in the Guide under the synonym.		

GENUS: Reboudia GENOME: Erucaria microcarpa
 SPECIES: pinnata (Viv.) O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)
 SYNONYM: Erucaria microcarpa Boiss.
 Information is available in the Guide under the synonym.

GENUS: Rhynchosinapis GENOME: Coincyia
 AUTH SOURCE: Hayek
 SYNONYM: Coincyia Porta & Rigo ex Rouy
 Information is available in the Guide under the synonym.

GENUS: Rytidocarpus GENOME: Rytidocarpus moricandoides
 SPECIES: moricandoides Coss.
 AUTH SOURCE: Coss. & Barratte, Illustr. Fl. Atlant. 1:100 (1889)
 Information is available in the Guide under this name.

GENUS: Savignya GENOME: Savignya parviflora
 SPECIES: aegyptiaca DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:283 (1821) [nom. illeg.]
 SYNONYM: Savignya parviflora (Del.) Webb
 Information is available in the Guide under the synonym.

GENUS: Savignya GENOME: Savignya parviflora
 SPECIES: longistyla Boiss. & Reut.
 AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 2, 5:27 (1856)
 SYNONYM: Savignya parviflora ssp. longistyla (Boiss. & Reut.) Maire
 Information is available in the Guide under the synonym.

GENUS: Savignya GENOME: Savignya parviflora
 SPECIES: parviflora (Del.) Webb
 AUTH SOURCE: Parl., Giorn. Bot. It. 2:215 (1847)
 SUBSPECIES: ssp. globosa Jafri, Ali & Jafri, Fl. Libya 23:85 (1977);
 ssp. longistyla (Boiss. & Reut.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 20:172 (1929);
 ssp. parviflora
 Information is available in the Guide under this name.

GENUS: Schouwia GENOME: Schouwia purpurea
 SPECIES: arabica DC.
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:644 (1821) [nom. illeg.]
 SYNONYM: Schouwia purpurea (Forssk.) Schweinf.
 Information is available in the Guide under the synonym.

GENUS: Schouwia GENOME: Schouwia purpurea
 SPECIES: purpurea (Forssk.) Schweinf.
 AUTH SOURCE: Bull. Herb. Boissier 4, App. 2:183 (1896)
 SUBSPECIES: ssp. purpurea;
 ssp. schimperi (Jaub. & Spach) Maire, Mém. Soc. Hist. Nat. Afr. Nord 3:111 (1933)
 Information is available in the Guide under this name.

GENUS: Schouwia GENOME: Schouwia purpurea
 SPECIES: schimperi Jaub. & Spach
 AUTH SOURCE: Illustr. Pl. Orient. 3:145 (1847)
 SYNONYM: Schouwia purpurea ssp. schimperi (Jaub. & Spach) Maire
 Information is available in the Guide under the synonym.

GENUS: Schouwia GENOME: Schouwia purpurea
 SPECIES: thebaica Webb
 AUTH SOURCE: Parl., Giorn. Bot. Ital. 2:219 (1847)
 SYNONYM: Schouwia purpurea ssp. schimperi (Jaub. & Spach) Maire
 Information is available in the Guide under the synonym.

GENUS: Sinapidendron GENOME: Sinapidendron
 SPECIES: angustifolium (DC.) Lowe
 AUTH SOURCE: Man. Fl. Madrid 1:30 (1857-1868)
 Information is available in the Guide under this name.

GENUS: Sinapidendron GENOME: Sinapidendron
 SPECIES: bourdaei Webb ex Christ
 AUTH SOURCE: Engler Bot. Jahrb. IX:89 (1887)
 Information is available in the Guide under this name.

GENUS: <u>Sinapidendron</u>	GENOME: <u>Sinapidendron</u>
SPECIES: <u>frutescens</u> (Aiton) Lowe	
AUTH SOURCE: Trans. Camb. Phil. Soc. 4:37 (1831)	
Information is available in the Guide under this name.	
GENUS: <u>Sinapidendron</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>gracile</u> Webb	
AUTH SOURCE: Hook, Icon. Pl. New ser. IV: t. 751 (1848)	
SYNONYM: <u>Diplotaxis gracilis</u> (Webb) O.E. Schulz	
Information is available in the Guide under the synonym.	
GENUS: <u>Sinapidendron</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>hirtum</u> Cheval	
AUTH SOURCE: Bull. Mus. Hist. Nat., Paris, Ser. 2, 7:141 (1935)	
SYNONYM: <u>Diplotaxis harra</u> ssp. <u>hirta</u> (Cheval) Sobrino	
Information is available in the Guide under the synonym.	
GENUS: <u>Sinapidendron</u>	GENOME: <u>Sinapidendron</u>
SPECIES: <u>palmense</u> (Kuntze) O.E. Schulz	
AUTH SOURCE: Engler, Pflanzenr. IV 105 (Heft 68-70):87 (1919)	
Information is available in the Guide under this name.	
GENUS: <u>Sinapidendron</u>	GENOME: <u>Sinapidendron</u>
SPECIES: <u>rupestre</u> Lowe	
AUTH SOURCE: Trans. Camb. Phil. Soc. 4:37 (1831)	
Information is available in the Guide under this name.	
GENUS: <u>Sinapidendron</u>	GENOME: <u>Diplotaxis harra</u>
SPECIES: <u>vogelii</u> Webb	
AUTH SOURCE: Hook., Icon. Pl. New. ser. IV: t. 152 (1848)	
SYNONYM: <u>Diplotaxis vogelii</u> (Webb) O.E. Schulz	
Information is available in the Guide under the synonym.	
GENUS: <u>Sinapis</u>	GENOME: <u>Sinapis alba-flexuosa</u>
SPECIES: <u>alba</u> L.	
AUTH SOURCE: Sp. Pl. :668 (1753)	
SUBSPECIES: ssp. <u>alba</u> ;	
	ssp. <u>dissecta</u> (Lag.) Bonnier, Fl. Compl. France 1:58 (1912);
	ssp. <u>mairei</u> (H. Lindb.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 24:198 (1933)
SYNONYM: <u>Brassica hirta</u> Moench	
Information is available in the Guide under this name.	
GENUS: <u>Sinapis</u>	GENOME: <u>Sinapis arvensis</u>
SPECIES: <u>allionii</u> Jacq.	
AUTH SOURCE: Hort. Bot. Vindob. 2: 79, t. 168 (1772-1773)	
SYNONYM: <u>Sinapis arvensis</u> ssp. <u>allionii</u> (Jacq.) Baillarg.	
Information is available in the Guide under the synonym.	
GENUS: <u>Sinapis</u>	GENOME: <u>Sinapis pubescens</u>
SPECIES: <u>aristidis</u> Pomel	
AUTH SOURCE: Nouv. Mat. Fl. Atlant. 2: 358 (1875)	
SYNONYM: <u>Sinapis pubescens</u> ssp. <u>aristidis</u> (Pomel) Maire & Weiller	
Information is available in the Guide under the synonym.	
GENUS: <u>Sinapis</u>	GENOME: <u>Sinapis arvensis</u>
SPECIES: <u>arvensis</u> L.	
AUTH SOURCE: Sp. Pl. :668 (1753)	
SUBSPECIES: ssp. <u>allionii</u> (Jacq.) Baillarg., Willdenowia 15:69 (1985);	
	ssp. <u>arvensis</u> ;
	ssp. <u>nilotica</u> (O.E. Schulz) Baillarg., [Ph.D. thesis 1986]
Information is available in the Guide under this name.	
GENUS: <u>Sinapis</u>	GENOME: <u>Sinapis aucheri</u>
SPECIES: <u>aucheri</u> (Boiss.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
SYNONYM: <u>Brassica aucheri</u> Boiss., Ann. Sci. Nat. Bot., Ser. 2, 17:88 (1842);	
	<u>Raphanus aucheri</u> (Boiss.) Boiss., Diagn. Pl. Orient. Nov. ser. 1, 8:45 (1849)
Information is available in the Guide under this name.	

GENUS: Sinapis GENOME: Sinapis pubescens
 SPECIES: boivini Baillarg.
 AUTH SOURCE: Ph.D. thesis 1986
 SYNONYM: Sinapis pubescens L.

Information is available in the Guide under the synonym.

GENUS: Sinapis GENOME: Sinapis alba-flexuosa
 SPECIES: dissecta Lag.
 AUTH SOURCE: Gen. Sp. Pl. :20 (1816)
 SYNONYM: Sinapis alba ssp. dissecta (Lag.) Bonnier
 Information is available in the Guide under the synonym.

GENUS: Sinapis GENOME: Sinapis alba-flexuosa
 SPECIES: flexuosa Poir.
 AUTH SOURCE: Lam., Encycl. Méth. Bot. 4:341 (1797)
 Information is available in the Guide under this name.

GENUS: Sinapis GENOME: Sinapis pubescens
 SPECIES: indurata Coss.
 AUTH SOURCE: Bull. Soc. Bot. Fr. 9:168 (1862)
 SYNONYM: Sinapis pubescens ssp. indurata (Coss.) Batt.
 Information is available in the Guide under the synonym.

GENUS: Sinapis GENOME: Sinapis alba-flexuosa
 SPECIES: mairei H. Lindb.
 AUTH SOURCE: Acta Soc. Sci. Fenn. Ser. B Opera. Biol. 1:65 (1932)
 SYNONYM: Sinapis alba ssp. mairei (H. Lindb.) Maire
 Information is available in the Guide under the synonym.

GENUS: Sinapis GENOME: Sinapis pubescens
 SPECIES: pubescens L.
 AUTH SOURCE: Mantissa 1:95 (1767)
 SUBSPECIES: ssp. aristidis (Pomel) Maire & Weiller: Maire, Fl. Afr. Nord 12:240 (1965);
 ssp. "boivini" [= Sinapis boivini];
 ssp. indurata (Coss.) Batt.: Batt. & Trabut, Fl. Algérie 1:53 (1888);
 ssp. pubescens;
 ssp. virgata (Batt.) Baillarg., [Ph.D. thesis 1986]
 Information is available in the Guide under this name.

GENUS: Sinapis GENOME: Sinapis arvensis
 SPECIES: turgida (Pers.) Del.
 AUTH SOURCE: Mém. Bot. Desc. Egypt 4:19 (1813)
 SYNONYM: Sinapis arvensis ssp. allionii (Jacq.) Baillarg.
 Information is available in the Guide under the synonym.

GENUS: Succowia GENOME: Succowia balearica
 SPECIES: balearica (L.) Medik.
 AUTH SOURCE: Pflanzengatt. :65 (1792)
 Information is available in the Guide under this name.

GENUS: Trachycnemum GENOME: Trachycnemum mirabile
 SPECIES: mirabile Maire & Sam.
 AUTH SOURCE: Arkiv f. Bot. 29A, 11:9 (1939)
 SYNONYM: Hybrid between Trachystoma ballii O.E. Schulz x Ceratocnemum rapistroides Coss. & Bal.
 Information is available in the Guide under this name.

GENUS: Trachystoma GENOME: Trachystoma aphanoneurum-ballii
 SPECIES: aphanoneurum (Maire & Weiller) Maire & Weiller
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934)
 Information is available in the Guide under this name.

GENUS: Trachystoma GENOME: Trachystoma aphanoneurum-ballii
 SPECIES: ballii O.E. Schulz
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):52 (1916)
 Information is available in the Guide under this name.

GENUS: Trachystoma GENOME: Trachystoma labasii
 SPECIES: labasii Maire
 AUTH SOURCE: Mém. Soc. Sci. Nat. Maroc 15:6 (1927)
 Information is available in the Guide under this name.

GENUS: <u>Vella</u>	GENOME: Carrichtera annua
SPECIES: <u>annua</u> L.	
AUTH SOURCE: Sp. Pl.: 641 (1753)	
SYNONYM: <u>Carrichtera annua</u> (L.) DC.	
Information is available in the Guide under the synonym.	
GENUS: <u>Vella</u>	GENOME: Vella anremerica
SPECIES: <u>anremerica</u> (Litard. & Maire) Gómez-Campo	
AUTH SOURCE: Bot. J. Linn. Soc. 82:175 (1981)	
SYNONYM: <u>Vella pseudocytisus</u> ssp. <u>anremerica</u> Litard. & Maire, Mém. Soc. Sci. Nat. Maroc. 26:6 (1931)	
Information is available in the Guide under this name.	
GENUS: <u>Vella</u>	GENOME: Vella anremerica
SPECIES: <u>charpinii</u> Fernández-Casas	
AUTH SOURCE: Fontqueria 1:9 (1982)	
SYNONYM: <u>Vella anremerica</u> (Lit. & Maire) Gómez-Campo	
Information is available in the Guide under the synonym.	
GENUS: <u>Vella</u>	GENOME: Vella pseudocytisus
SPECIES: <u>glabrescens</u> Coss.	
AUTH SOURCE: Coss. & Barratte, Illust. Fl. Atlant. 1:71 (1884)	
SYNONYM: <u>Vella pseudocytisus</u> ssp. <u>glabrata</u> (Coss.) Greuter	
Information is available in the Guide under the synonym.	
GENUS: <u>Vella</u>	GENOME: Vella lucentina
SPECIES: <u>lucentina</u> M. B. Crespo	
AUTH SOURCE: Bot. J. Linn. Soc. 109:370 (1992)	
Information is available in the Guide under this name.	
GENUS: <u>Vella</u>	GENOME: Vella mairei
SPECIES: <u>mairei</u> Humbert	
AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 15:186 (1924)	
Information is available in the Guide under this name.	
GENUS: <u>Vella</u>	GENOME: Vella pseudocytisus
SPECIES: <u>pseudocytisus</u> L.	
AUTH SOURCE: Sp. Pl.:641 (1753)	
SUBSPECIES: ssp. <u>glabrata</u> (Coss.) Greuter: Greuter et al., Med.-Checklist 3 (1986);	
ssp. <u>pau</u> Gómez-Campo, Bot. J. Linn. Soc. 82:174 (1981);	
ssp. <u>pseudocytisus</u>	
Information is available in the Guide under this name.	
GENUS: <u>Vella</u>	GENOME: Vella spinosa
SPECIES: <u>spinosa</u> Boiss.	
AUTH SOURCE: Biblioth. Univ. Genève ser. 2, 13:407 (1838)	
Information is available in the Guide under this name.	
GENUS: <u>Zilla</u>	GENOME: Zilla spinosa
SPECIES: <u>biparmata</u> O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)	
SYNONYM: <u>Zilla spinosa</u> ssp. <u>biparmata</u> (O.E. Schulz) Maire & Weiller	
Information is available in the Guide under the synonym.	
GENUS: <u>Zilla</u>	GENOME: Zilla spinosa
SPECIES: <u>macroptera</u> Coss.	
AUTH SOURCE: Bull. Soc. Bot. Fr. 3:670 (1856)	
SYNONYM: <u>Zilla spinosa</u> ssp. <u>macroptera</u> (Coss.) Maire & Weiller	
Information is available in the Guide under the synonym.	
GENUS: <u>Zilla</u>	GENOME: Zilla spinosa
SPECIES: <u>spinosa</u> (L.) Prantl	
AUTH SOURCE: Engler & Prantl Nat. Pflanzenr. 3,2:174 (1891)	
SUBSPECIES: ssp. <u>biparmata</u> (O.E. Schulz) Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);	
ssp. <u>costata</u> Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);	
ssp. <u>macroptera</u> (Coss.) Maire & Weiller: Maire, Fl. Afr. Nord 13:8 (1967);	
ssp. <u>myagrooides</u> (Forssk.) Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);	
ssp. <u>spinosa</u>	
Information is available in the Guide under this name.	

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