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LIST OF THE TAXA PROTECTED IN THE MEMBER STATES OF UPOV
AND IN THE STATES THAT HAVE INITIATED THE PROCEDURE
FOR ACCEDING TO UPOV

prepared by the Office of the Union

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INTRODUCTION

1. The 1978 Act of the International Convention for the Protection of New Varieties of Plants is applicable, according to its Article 4(1), to all botanical genera and species. Its Article 4(2) provides that “the member States of the Union undertake to adopt all measures necessary for the progressive application of the provisions of this Convention to the largest possible number of botanical genera and species.” The 1991 Act of the Convention provides in its Article 3 that “each Contracting Party which is bound by the Act of 1961/1972 or the Act of 1978 shall apply the provisions of this Convention, (i) at the date on which it becomes bound by this Convention, to all plant genera and species to which it applies, on the said date, the provisions of the Act of 1961/1972 or the Act of 1978 and, (ii) at the latest by the expiration of a period of five years after the said date, to all plant genera and species,” and that “each Contracting Party which is not bound by the Act of 1961/1972 or the Act of 1978 shall apply the provisions of this Convention, (i) at the date on which it becomes bound by this Convention, to at least 15 plant genera or species and, (ii) at the latest by the expiration of a period of 10 years from the said date, to all plant genera and species.”

2. This document surveys the measures for the protection of the various taxa¹ that have been instituted by the member States of the Union and by the States which have filed, pursuant to Article 32(3) of the 1978 Act or to Article 34(3) of the 1991 Act, a request for advice of the Council on the conformity of their laws with the Convention. It also contains additional information which may be useful in the context of this document.

3. This document contains the following parts:

- (a) a main table;
- (b) notes classified by States;
- (c) notes classified by taxa;
- (d) an index of families;
- (e) four indexes of common names.

4. The main table contains the list of the taxa protected in at least one of the States defined above with, for each of them, indications with respect to its protection in each of the States. Explanations of the symbols used for this purpose appear on page 6.

5. The main table does not contain the following States which protect the whole or essentially the whole plant kingdom: Argentina, Australia, Bolivia, Chile, Colombia, Denmark, Ecuador, France, Germany, Hungary, Israel, Netherlands, New Zealand, Norway, United States of America. Details on the situation in those countries are given in the notes classified by States.

¹ The expression “protected taxon” and the similar expressions mean that titles of protection may be issued for varieties of the taxon concerned.

6. It is to be noted that unitary protection is available, for all botanical genera and species, in the European Community.

7. The taxa are listed in the alphabetical order of their Latin names, except in the case of complex genera which contain many species and subspecies. These are isolated from the rest of the table by dotted lines and are treated differently, for instance with the use of titles, in order to facilitate consultation of the table.

8. The Latin names of the taxa are taken over from the laws and regulations of the States protecting them, except in the following circumstances:

(a) The legislation of a State may not contain Latin names and may therefore specify the protected taxa by means of their common names (in the case of Italy—with respect to certain taxa—Japan and Spain). Where relevant, the Office of the Union has added the Latin name corresponding to the common name.

(b) The legislation of a State may contain a Latin name the scope of which is much greater than that of the corresponding common name which defines the protected taxon. Where relevant, the Office of the Union has completed the Latin name.

(c) Two or more States protecting the same taxon may use different Latin names. Two cases may exist:

(i) The differences are small (presence and absence of authors' names, different spellings, etc.): in this case, the Office of the Union has retained only one Latin name.

(ii) The differences are substantial: where the difference relates to the use of synonyms (for example, *Prunus amygdalus* and *Amygdalus communis*), each designation is the subject of an entry in which the synonym is given in square brackets. Where the difference relates to the rank of the designations used and where, in practice, they cover about the same set of varieties (for example, *Hordeum L.* and *H. vulgare* to designate barley), these designations are the subject of one entry only in which one of them is given in square brackets.

9. For its decisions on the Latin names, the Office of the Union mainly had recourse to the following works:

(a) "Diccionario de Plantas Agrícolas" by E. Sánchez-Monje y Parellada - Ministerio de Agricultura, Servicio de Publicaciones Agrarias, 1980, Madrid;

(b) "Dictionary of Gardening" (second edition (1977)) by P.M. Syngé - Oxford University Press;

(c) "Elsevier's Dictionary of Botany - I. Plant Names" by P. Macura - Elsevier Scientific Publishing Company, Amsterdam - Oxford - New York, 1979;

(d) "Elsevier's Dictionary of Trees and Shrubs" by Hugues Vaucher, Biel-Bienne, 1986;

(e) “Flora Agrícola” by E. Sánchez-Monje - Ministerio de Agricultura, Pesca y Alimentación, Secretaria General Técnica, 1991, Madrid;

(f) “ISTA List of Stabilized Plant Names” (second edition (1984));

(g) R. Mansfeld - “Vorläufiges Verzeichnis landwirtschaftlich oder gärtnerisch kultivierter Pflanzenarten” - Akademie-Verlag, Berlin, 1959;

(h) “Zander - Handwörterbuch der Pflanzennamen” (tenth edition (of 1972), twelfth edition (of 1980) and thirteenth edition (of 1984)), Eugen Ulmer Publications, Stuttgart.

The species names stabilized by ISTA are preceded by an asterisk.

10. The common names originate from the national laws and regulations or have been indicated by the competent authorities of the member States, or again have been added by the Office of the Union. In this respect, three types of common names may be distinguished:

(a) true common names (examples: wheat, onion, apple, carnation, poplar);

(b) common names deriving from the corresponding Latin name or from which the Latin name is derived (examples: abutilon, acacia, chrysanthemum, dahlia);

(c) Latin names which, in the absence of true common names, are used in the common language (examples: *Cymbidium*, *Dieffenbachia*, *Romneya*). Such names may also coexist with a true common name (example: *Anthurium* and Tail Flower). As time passes, they may pass into the common language as names of the second type (example: *Gerbera*). These names may be the subject of some changes, of which the most important are phonetic or spelling adaptations (addition of accents in French and Spanish, change of the last syllable, -ia becoming for example -ie in German, etc.) and total or partial translations (for example *Abies sachalinensis* becomes “Sakhalin fir” and *Pelargonium peltatum* becomes “ivy-leaved Pelargonium”). The result is that several variants may be used in one and the same language. Variants may also exist for other reasons. It should be noted in particular that the spelling of compound names is not always consistent in English (example: meadowgrass, meadow-grass and meadow grass).

11. Where relevant, the Office of the Union has added common names of the third type, thereby choosing those which seemed or were likely to prevail in usage. Concerning ornamental species, it is frequent usage to designate them, in the absence of names of the first or second type, by the name of the genus. Thus the species *Allamanda cathartica* is designated by “Allamanda.” This usage also prevails in the case of certain genera containing several ornamental species. In that case, in order to reduce the list, the Office of the Union has regrouped in one entry all species concerned where this was possible. Thus, *Abutilon megapotamicum*, *A. x milleri*, *A. ochsenii* and *A. vitifolium* are the subject of one entry only.

12. Attention is drawn to the fact that the relationships between common names and Latin names may be different from one taxon to another: in the case of the genera for instance, the common name may apply either to all species of the genus, or to certain species only. In the

case of Viola, for instance, violet applies to the whole genus, on the one hand, and more particularly to the small-flowered species, on the other (the large-flowered garden plants being called pansies). The main table and the indexes should therefore not be used without care as glossaries.

13. As the above indications show, the drawing up of the synoptical list of protected taxa has led to some departures from the relevant national laws and regulations, in particular because nomenclatures used are not uniform. In this respect, useful information is given in the “notes.” In any case, it is recommended to consult these laws and regulations when precise information is needed.

14. The notes classified by States follow the alphabetical order of the codes applicable to countries. The following will be found therein, wherever it has appeared necessary:

(a) general notes relating in particular to the way in which the national list of protected taxa has been established;

(b) special notes relating to a peculiarity of the national list which concerns a given taxon.

15. The notes classified by taxa contain more detailed information on systematics, notably on the synonyms.

16. Some States now provide for protection at the family level. The index of families indicates for each genus mentioned in the main table the corresponding family. Indications given in respect of fungi are without guarantee in view of the great uncertainties of the classification.

17. The indexes of common names contain alphabetical lists of the common names mentioned in the main table with, opposite each of them, the Latin name of the corresponding genus. The compound common names are the subject of a double entry, as far as this is necessary, for example “maidenhair fern” and “fern (maidenhair).” In general, common names identical or very similar to Latin names do not appear in the indexes, neither do species or family names where they contain the name of the corresponding genus.

18. Unless otherwise indicated, the protection of a fruit crop taxon means that both fruiting varieties and rootstocks may be protected.

EXPLANATION OF THE SYMBOLS USED IN THE MAIN TABLE

Country codes

AR	Argentina	EC	Ecuador	NZ	New Zealand
AT	Austria	ES	Spain	PL	Poland
AU	Australia	FI	Finland	PT	Portugal
BE	Belgium	FR	France	PY	Paraguay
BO	Bolivia	GB	United Kingdom	RU	Russian Federation
CA	Canada	HU	Hungary	SE	Sweden
CH	Switzerland	IE	Ireland	SK	Slovakia
CL	Chile	IL	Israel	UA	Ukraine
CO	Colombia	IT	Italy	US	United States of America
CZ	Czech Republic	JP	Japan	UY	Uruguay
DE	Germany	NL	Netherlands	ZA	South Africa
DK	Denmark	NO	Norway		

Signs in the columns

X Protected taxon

+ Taxon protected as a result of:

(a) the protection of a taxon of higher rank to which it belongs (for example in the case of a species: the genus to which it belongs is protected);

(b) the protection of all taxa of lower rank which belong to it (for example, in the case of a genus, all its species are protected).

(X), (+) Protection of the taxon envisaged in the near future.

* Before a taxon name: species name stabilized by ISTA;

After a taxon name: refers to the Notes Classified by Taxa;

After X or +: refers to a special note to be found under the name of the State concerned in the Notes Classified by States.

Numerals refer to the general notes to be found under the name of the State concerned in the Notes Classified by States.

NOTES CLASSIFIED BY STATES

AR/ARGENTINA

General Note

There is no provision in the Law on Seed and Phylogenetic Creations (Law No. 20.247 of March 30, 1973) restricting protection to particular genera or species.

AT/AUSTRIA

Special Note

Pisum sativum L. partim: the definition of the protected entities is the following: “Peas for use as grain peas for feeding purposes.”

AU/AUSTRALIA

General Note

According to Section 3(1) of the Plant Breeder’s Rights Act 1994, the term “plant” includes all fungi and algae, but does not include bacteria, bacteroids, mycoplasmas, viruses, viroids and bacteriophages.

BE/BELGIUM²

Special Notes

Aeschynanthus Jack, Kohleria Regel: the definition of the protected entities is the following: “Gesneriaceae: Kohleria Regel, Aeschynanthus Jack: Gesneriaceae, comprising Kohleria, Aeschynanthus.”

Anthurium, Dieffenbachia, Philodendron, Spathiphyllum, Syngonium: the definition of the protected entities is the following: “Araceae Juss.: Araceae (Anthurium, Dieffenbachia, Philodendron, Spathiphyllum, Syngonium).”

Bromeliaceae, Aechmea, Cryptanthus, Guzmania, Neoregelia, Tillandsia, Vriesea: the definition of the protected entities is the following: “Bromeliaceae belonging to the genera and to their mutual hybrids: Bromeliaceae: Aechmea Ruiz et Pav., Cryptanthus Otto et A. Dietr., Guzmania Ruiz et Pav., Neoregelia L.B. Sm., Tillandsia L., Vriesea Lindl.”

² Source: Royal Decree of October 1, 1993, Fixing the Plant Species for which a New Plant Variety Certificate may be Delivered and Fixing the Duration of Protection for Those Species.

Cydonia Mill.: all varieties except ornamental varieties, but including rootstocks, can be protected.

Dizygotheca N.E. Br., Schefflera J.R. et G. Forst.: the definition of the protected entities is the following: “Araliaceae Juss.: Araliaceae (Dizygotheca, Schefflera).”

Epiphyllopsis Berger, Rhipsalidopsis Britt. et Rose, Schlumbergera Lem., Zygocactus K. Schum.: the definition of the protected entities is the following: “cacti with jointed stems belonging to the genera and to their mutual hybrids: Zygocactus K. Schum., Schlumbergera Lem., Epiphyllopsis Berger, Rhipsalidopsis Britt. et Rose.”

Ficus benjamina L., F. elastica Roxb.: the definition of the protected entities is the following: “Ficus L.: Ficus benjamina, rubber Plant.”

Humulus lupulus L.: all varieties except ornamental varieties, but including rootstocks, can be protected.

Malus L.: the definition of the protected entities is the following: “apple, including rootstocks and ornamental varieties.”

Prunus L.: the definition of the protected entities is the following: “cherry, plum, apricot, myrobalan, peach, including rootstocks and ornamental varieties for these species.”

Pyrus L.: the definition of the protected entities is the following: “pear, including rootstocks and ornamental varieties.”

Ribes L.: the definition of the protected entities is the following: “black, red and white currants, gooseberry and hybrids of these species; including ornamental varieties for all these species.”

Rubus L.: the definition of the protected entities is the following: “raspberry; bramble (fruit and ornamental varieties)”; for raspberry all varieties except ornamental varieties, but including rootstocks can be protected.

BO/BOLIVIA

General Note

The scope of application of national legislation is defined by Article 2 of Decision No. 345 (of October 21, 1993) of the Commission of the Cartagena Agreement as “all botanical genera and species insofar as the growing, possession or use thereof are not prohibited for reasons of human, animal or plant health.”

CA/CANADA

Special Notes

Brassica napus L., Brassica campestris L.: the definition of the protected entities is the following: “Brassica napus L./Brassica campestris L. - Rapeseed, Canola.”

Prunus L.: protection is limited to ornamental cherry trees.

CH/SWITZERLAND

General Note

Interspecific hybrids: protection also extends to species which are the result of an interspecific hybridization between species belonging to different families of which at least one is mentioned in the national list of protected taxa (Ordinance of May 11, 1977, on Plant Variety Protection - Amendment of June 11, 1990).

CL/CHILE

General Note

The Law on the Rights of Breeders of New Varieties of Plants (No. 19.342 of October 17, 1994) provides that “the right of the breeder may be exercised in relation to all botanical genera and species.”

CO/COLOMBIA

General Note

According to Article 1 of Decree No. 533 of March 8, 1994, protection extends to all cultivated varieties of botanical genera and species, provided that the cultivation, possession or use thereof is not prohibited on grounds of human, animal or plant health, but does not extend to wild species, that is, those individual plant species that have not been planted or improved by man.

CZ/CZECH REPUBLIC; SK/SLOVAKIA³

General Note

³ Source: Decree No. 134/1989 of November 20, 1989, of the Federal Ministry for Agriculture and Food of Czechoslovakia Establishing the List of Economically Important Plant and Animal Species and Genera, as amended by Decree No. 515/1991 of November 15, 1991. The Decree, as amended, continues to apply both in the Czech Republic and Slovakia as from January 1, 1993.

Protection of breeds of animals: protection also extends to breeds of the following animal species:

<u>Latine</u>	<u>English</u>	<u>Français</u>	<u>Deutsch</u>	<u>Español</u>
<i>Alopex lagopus</i>	Arctic Fox	Renard polaire	Polarfuchs, Eisfuchs	Zorra ártica, Zorro azul
<i>Anas platyrhyncha</i>	Duck	Canard	Ente	Pato
<i>Anser anser</i>	Goose	Oie	Gans	Ganso
<i>Apis mellifera</i>	Honey-bee	Abeille	Biene	Abeja
<i>Bos taurus</i>	[Bull, Cow, Calf]	[Taureau, Vache, Veau]	[Stier, Kuh, Kalb]	[Toro, Vaca, Temera]
<i>Capra hircus domestica</i>	Goat	Chèvre	Ziege	Cabra
<i>Cyprinus carpio</i>	Carp	Carpe	Karpfen	Carpa
<i>Equus caballus</i>	Horse	Cheval	Pferd	Caballo
<i>Gallus gallus</i>	Cock, Hen	Coq, Poule	Hahn, Huhn	Gallo, Gallina
<i>Lutreola vison</i>	Vison, American Mink	Vison	Nerz	Visón
<i>Meleagris gallopavo</i>	Turkey	Dindon	Truthahn, Puter	Pavo
<i>Myocastor coypus</i>	Coypu, Coypou	Ragondin	Koipu, Nutria, Biber- ratte, Sumpfbiber	Coipo, Coipu
<i>Oryctolagus cuniculus</i> L.	Tame Rabbit	Lapin	Kaninchen	Conejo
<i>Ovis aries</i>	Sheep	Mouton	Schaf	Oveja
<i>Salmo gairdneri irideus</i>	Rainbow Trout	Truite arc-en-ciel	Regenbogenforelle	Trucha arco iris
<i>Sus scrofa ferus</i> (domestica)	Pig	Porc	Schwein	Cerdo
<i>Tinca tinca</i>	Tench	Tanche	Schlei, Schleie	Tenca
<i>Vulpes vulpes</i>	Common Fox	Renard commun	Gemeiner Fuchs	Zorro vulgar de Europa

Special Notes

Phaseolus vulgaris L.: the definition of the protected entities is the following: “Phaseolus vulgaris L. - (Field) French Bean; Phaseolus vulgaris L. var. nanus (L.) Aschers.; Phaseolus vulgaris L. var. vulgaris - (Garden) French Bean.”

Prunus persica (L.) Batsch: protection also extends to Persica vulgaris Mill. var. amygdaloides.

Rubus idaeus L.: the definition of the protected entities is the following: “Rubus idaeus L. and hybrids - Raspberry.”

Vicia sativa L.: the definition of the protected entities is the following: “Vicia sativa L. (including Vicia angustifolia Reichard) - Common Vetch.”

Vicia villosa Roth: the definition of the protected entities is the following: “Vicia villosa Roth (including Vicia dasycarpa Ten.) - Hairy Vetch.”

DE/GERMANY

General Note

Protection extends to all taxa of the plant kingdom (First Amendment Law of March 27, 1992, to the Plant Variety Protection Law).

DK/DENMARK

General Note

Protection extends to all plant genera and species (Plant Novelties Act, as last amended by Act No. 1086 of December 20, 1995).

EC/ECUADOR

General Note

The scope of application of national legislation is defined by Article 2 of Decision No. 345 (of October 21, 1993) of the Commission of the Cartagena Agreement as “all botanical genera and species insofar as the growing, possession or use thereof are not prohibited for reasons of human, animal or plant health.” In addition, Article 1 of Decree No. 3708 of April 10, 1996, establishing the regulations to the said Decision specifies that wild species which have not been planted or improved by man are excluded.

ES/SPAIN⁴

Special Notes

Malus domestica Borkh.: protection is limited to fruiting varieties.

Zea mays L.: protection is limited to pure lines.

⁴ Source: Order No. 6125 of April 16, 1985, Establishing Protection for New Varieties of Lucerne, Maize, Soya Bean, Lettuce, Apple and Hybrids Between Almond and Peach.

FI/FINLAND

Special Note

Prunus L.: protection is limited to bullace, cherry, plum, damson and mirabelle.

FR/FRANCE

General Note

Protection is granted to any variety belonging to a species of the plant kingdom (Decree No. 95-1407 of December 28, 1995, Amending the Intellectual Property Code (Regulatory Part) and Relating to the Scope of Application of New Plant Variety Certificates and the Scope and Duration of the Breeder's Right).

GB/UNITED KINGDOM

General Notes

Legal form of the extension of protection: protection is extended to a taxon by means of statutory instruments entitled "The Plant Breeders' Rights ([designation of the purpose of the instrument]) Scheme [year]" (example: "The Plant Breeders' Rights (Barley) Scheme 1965"). There is now a tendency to establish instruments relating to groups of plants. Thus, the aforementioned instrument has been repealed by "The Plant Breeders' Rights (Cereals) Scheme 1980," which states by name the protected cereals.

Definition of the protected entity: the precise definition of what may be protected is in general the following:

- in the case of Schemes for individual taxa: "all plant varieties of [common name of the taxon] which conform with the characteristics of cultivated plant varieties of [designation of the rank of the taxon and Latin name thereof]."
- in the case of collective Schemes: "all plant varieties of [collective designation of the group of taxa] which conform with the characteristics of cultivated plant varieties of [designation of the ranks of the taxa concerned and reference to a table containing the list of the Latin names of those taxa and the corresponding common names, if any]."

Herbaceous perennial plants and trees, shrubs and woody climbers: the technique of the collective statutory instrument has been used in particular for two groups of taxa which are identified in the main table because of the limitation of the scope of the Latin names of the taxa deriving from the collective designation:

(a) the taxa protected under "The Plant Breeders' Rights (Herbaceous Perennials) Scheme 1969" as last amended in 1995 - figure 1: the only varieties which may be protected under that instrument are those which are herbaceous and hardy under the climate of the United Kingdom;

(b) the taxa protected under “The Plant Breeders’ Rights (Trees, Shrubs and Woody Climbers) Scheme 1993” - figure 2: the only varieties which may be protected within a taxon specified under that instrument are varieties of trees, shrubs and woody climbers. Concerning the following species, protection under that instrument has been limited to ornamental varieties: *Prunus L.*, *Pyrus L.*, *Ribes L.*, *Rubus L.*, *Vaccinium L.*

Rootstocks of fruit crops: in the case of woody fruit crops, account is taken of the fact that fruiting varieties and rootstock varieties do not always belong to the same species. In the main table, the “X” indicating that the taxon is protected is placed alongside the fruiting species and is accompanied by the figure 3. The scope of protection of each fruit crop is specified in the table on the next page.

Special Notes

Brassica rapa L. var. rapa (L.) Thell.: protection has been extended to this taxon under “The Plant Breeders’ Rights (Vegetables) (including Field Beans and Field Peas) Scheme 1980.”

Buddleja L.: protection does not extend to *B. asiatica* Lour., *B. auriculata* Benth., *B. madagascariensis* Lam., *B. officinalis* Maxim.

Chrysanthemum L. partim: the definition of the protected entities is the following (The Plant Breeders’ Rights (Compositae) Scheme 1985): “all plant varieties of [Compositae] which conform with the characteristics of cultivated plant varieties of [the following] genera or species: *Chrysanthemum morifolium* Ramatuelle; *C. indicum* auct. non L.; *C. sinense* Sabine; *C. chinense* hort.; *C. hortorum* W. Miller; *C. japonense* (Makino) Nakai; *C. vestitum* (Hemsley) Stapf; *C. makinoi* Matsumura and Nakai; *C. sibiricum* (DC.) Fischer ex Turcz.; *C. zawadskii* Herbich and varieties; *C. rubellum* Sealy (*C. erubescens* hort. non Stapf); *C. cuneifolium* Kitamura; *C. okiense* Kitamura; *C. boreale* (Makino) Makino; *C. aphrodite* (Kitamura); *C. arcticum* auct. non L.; *C. yezoense* Maekawa; Korean chrysanthemums; Konji chrysanthemums; Cascade chrysanthemums; *C. ornatum* Hemsley; *C. koreanum* (*coreanum*) hort.”

Common names (fruit crops)	Protected taxa FV = Fruiting varieties; R = Rootstocks
Apple	<u>FV</u> Species <i>Malus domestica</i> Borkh. <u>R</u> <i>Malus</i> spp.
Cherry Pall.	<u>FV</u> Species <i>Prunus avium</i> L., <i>Prunus cerasus</i> L. and <i>Prunus fruticosa</i> Pall. <u>R</u> <i>Prunus</i> species or varieties of species belonging to the subgenus <i>Cerasus</i> Pers. (genus <i>Cerasus</i> Mill.) and hybrids between any of these, or between species or varieties or hybrids belonging to the subgenus <i>Cerasus</i> Pers. and species or varieties or hybrids belonging to other subgenera, subdivisions or segregates of the genus <i>Prunus</i> L.
Plum	<u>FV</u> Species <i>Prunus domestica</i> or <i>Prunus cerasifera</i>
Damson, bullace and mirabelle	<u>FV</u> Species <i>Prunus insititia</i> <u>R</u> Species <i>Prunus domestica</i> , <i>Prunus cerasifera</i> or <i>Prunus insititia</i> , including hybrids derived from any two or all of these species.
Pear	<u>FV</u> Species <i>Pyrus communis</i> <u>R</u> <i>Pyrus</i> spp.
Red currants	<u>FV</u> <i>Ribes</i>
Gooseberry	<u>FV</u> <i>Ribes grossularia</i> , <i>Ribes uva-crispa</i>
Black currants	<u>FV</u> <i>Ribes nigrum</i> , <i>Ribes ussuriense</i> , <i>Ribes dikuscha</i>
Rubus, Rubus hybrids	<u>FV</u> <i>Rubus</i>

Cydonia Mill.: protection is limited to rootstock varieties.

Epiphyllopsis Berger, Rhipsalidopsis Britt. et Rose, Schlumbergera Lem., Zygocactus K. Schum.: the definition of the protected entities is the following: (The Plant Breeders' Rights (Cactaceae) Scheme 1985): "all plant varieties of cacti which conform with the characteristics of cultivated plant varieties of [the following] taxa or of cultivated plant varieties which are the products of hybridization between members of any of those taxa: *Epiphyllopsis* (Berger) Backeb. et Knuth; *Rhipsalidopsis* Britt. et Rose; *Schlumbergera* Lem. (*Zygocactus* K. Schum.)."

Festuca ovina L. sensu lato: this taxon is protected under "The Plant Breeders' Rights (Miscellaneous Ornamental Plants) Scheme 1990," as last amended in 1993, and protection is limited to *Festuca ovina* 'Glauc.'

Fragaria L.: this taxon is protected under "The Plant Breeders' Rights (Strawberries) Scheme 1966" and, through a variation of 1985, under "The Plant Breeders' Rights (Herbaceous Perennials) Scheme 1969."

Hebe Comm. ex Juss.: protection does not extend to *H. speciosa* (Cunn.) Cock. et Allan.

Helianthus annuus L.: this taxon is protected under “The Plant Breeders’ Rights (Herbaceous Perennials) Scheme 1969” and, through a variation of 1990, under “The Plant Breeders’ Rights (Oil and Fibre Plants) Scheme 1980,” the latter not applying to ornamental varieties.

Lupinus L.: this taxon is protected under both statutory instruments mentioned in the paragraph “Herbaceous perennial plants and trees, shrubs and woody climbers.”

Oenothera L.: this taxon is protected under “The Plant Breeders’ Rights (Herbaceous Perennials) Scheme 1969” and under “The Plant Breeders’ Rights (Oil and Fibre Plants) Scheme 1980,” the latter not applying to ornamental varieties.

Paeonia L.: this taxon is protected under both statutory instruments mentioned in the paragraph “Herbaceous perennial plants and trees, shrubs and woody climbers.”

Trifolium arvense L.: this taxon is protected under “The Plant Breeders’ Rights (Miscellaneous Ornamental Plants) Scheme 1990,” as last amended in 1993.

Zea mays L.: protection does not extend to varieties of sweetcorn and popcorn.

HU/HUNGARY

General Note

There is no provision in the Law No. II of 1969 on the Protection of Inventions by Patents, as last amended, restricting protection to particular genera or species.

IE/IRELAND

Special Note

Rubus L.: the definition of the protected entities is the following: “Raspberry, Raspberry x Blackberry hybrids and Blackberry, including ornamental herbaceous perennials.”

IL/ISRAEL

General Note

The Law on the Rights of the Breeders of Plant Varieties, as last amended on February 23, 1996, applies to all botanical genera and species.

IT/ITALY⁵

Special Notes

Orchidaceae Juss.: the definition of the protected entities is the following: “Orchis L. - Orchid.”

Prunus salicina Lindl.: the definition of the protected entities is the following: “interspecific hybrids between Japanese types and American types from the genus Prunus.”

JP/JAPAN

General Notes

The list of protected taxa appears in the implementing regulations to the revised Seeds and Seedlings Law (Cabinet Order No. 391 of December 22, 1978). That list was extended by several Cabinet Orders. It is divided into eight groups, identified by the figures 1 to 8 in the main table. The groups bear no titles, but the following may be given:

- Group 1: “agricultural” plants
- Group 2: vegetables
- Group 3: fruit crops
- Group 4: fodder plants
- Group 5: herbaceous ornamental plants
- Group 6: woody ornamental plants
- Group 7: aquatic plants
- Group 8: mushrooms.

Each group is subdivided into genera, species and sub-species. The subdivisions are not identified at all in the main table, because they are readily recognizable in most cases from the Latin names.

The inclusion of the name of a taxon in one of the eight groups has no limitative effect on the scope of the name (for example, the fact that *Camellia* L. is listed in Group 6 does not exclude tea (*Camellia sinensis* (L.) O. Kuntze) from protection). The inclusion in a subdivision of a name denoting a taxon of a lower rank than that of the subdivision concerned also has no limitative effect (for example, the Japanese name equivalent to “cherry, flowering cherry” is mentioned in the subdivision “Genera” of Group 3, but the whole genus *Prunus*—and not the subgenus *Cerasus* only—is covered).

⁵ Source: Ministerial Decree of March 16, 1987, Concerning the Implementation of Presidential Decree No. 974 of August 12, 1975, Containing the Standards for the Protection of New Plant Varieties.

Special Note

Brassica napus L., Brassica rapa L.: protection is provided for in respect of Rape (*Brassica napus* L. partim; oilseed rape) and Japanese local types (*Brassica campestris* L.—synonymous with *B. rapa* L.—partim; leaf-vegetable varieties), and also turnip (*Brassica rapa* L.—including fodder varieties).

NL/NETHERLANDS

General Note

Protection extends to all taxa of the plant kingdom (Order of June 14, 1990 [Staatsblad 262], Amending the Plant Breeders' Rights Order of 1975).

NO/NORWAY

General Note

Protection extends to all plant genera and species, including hybrids between genera or species (Ordinance Relating to the Breeder's Right, as last amended on February 6, 1995).

NZ/NEW ZEALAND

General Note

According to the Plant Variety Rights Act 1987, as amended by the Plant Variety Rights Amendment Act 1994, the term "plant" includes a fungus, but does not include an alga or a bacterium.

PL/POLAND

General Note

The list of protected taxa appears in the Decree of the Minister of Agriculture, Forestry and Food Economy of April 15, 1996, on the Execution of Some Provisions of the Seed Industry Law. It is divided into several groups and subgroups; the main subdivisions are identified as follows in the main table:

- Figure 1: agricultural plants
- Figure 2: agricultural plants, subgroup of medicinal and seasonal plants
- Figure 3: vegetables
- Figure 4: ornamentals
- Figure 5: top fruit
- Figure 6: soft fruit.

Special Notes

Begonia L.: this taxon is protected as a greenhouse plant.

Brassica napus L. emend. Metzg. ssp. rapifera Metzg.: this taxon is listed both in the agricultural plants group and in the vegetables group.

Brassica rapa L. emend. Metzg. ssp. rapa: this taxon is listed both in the agricultural plants group and in the vegetables group.

Calendula officinalis L.: this taxon is listed in both the medicinal and seasonal plants subgroup and in the ornamentals group.

Capsicum annuum L.: this taxon is listed both in the medicinal and seasonal plants group and in the vegetables group.

Cydonia oblonga Mill.: this taxon is listed in the top fruit group; only rootstocks may be protected.

Daucus carota L. ssp. sativus (Hoffm.) Schübl. et G. Martens: this taxon is listed both in the agricultural plants group and in the vegetables group.

Dentranthema x grandiflorum (Ramat.) Kitamura: this taxon is listed, in the ornamentals group, under perennial plants and under greenhouse plants.

Foeniculum vulgare P. Mill.: this taxon is listed both in the medicinal and seasonal plants (as ssp. piperitum (Ucria) Cout.) and in the vegetables group (as ssp. vulgare var. azoricum (Mill.) Thell.).

Helianthus annuus L.: this taxon is listed both in the agricultural plants group and in the ornamental plants group.

Lactuca sativa L.: this taxon is listed in the vegetables group and subdivided into var. capitata L., var. crispa L., var. angustana hort. ex L.H. Bailey and var. longifolia Lam.

Pisum sativum L. sensu lato: this taxon is listed both in the agricultural plants group, as Pisum sativum L. ssp. sativum, and in the vegetables group, as Pisum sativum L. ssp. sativum convar. axiphium Alef. emend. C.D. Lehm. and P. sativum L. ssp. sativum convar. medullare Alef. emend. C.D. Lehm. and convar. sativum.

Prunus L.: the definition of the protected entities is the following: “Prunus L. - cherry and plum (other species).”

Secale cereale L.: protection extends, in the cereals subgroup, to Secale cereale L. f. nivalis and S. cereale L. f. vernalis and, in the miscellaneous subgroup, to S. cereale f. nivalis (for use as green fodder).

Zea mays L.: protection extends, in the case of vegetables, to *Z. mays L. convar. microsperma* Koern. (popcorn) and *Z. mays L. convar. saccharata* Koern. (sweet maize).

SE/SWEDEN

General Note

Protection also extends to hybrids of genera or species mentioned in the national list of protected taxa.

Special Note

Malus Mill., Prunus L., Pyrus L., Ribes L.: protection also extends to rootstock varieties.

SK/SLOVAKIA

See under CZ/Czech Republic; SK/Slovakia.

US/UNITED STATES OF AMERICA

General Note

The United States of America protects:

(a) under the Plant Variety Protection Act: all sexually reproduced plant varieties and tuber propagated plant varieties excluding fungi and bacteria (Section 42(a) of the Act);

(b) under the law commonly known as Plant Patent Act, introduced into the General Patent Law: all vegetatively propagated plant varieties, including cultivated sports, mutants, hybrids, and newly found seedlings, other than tuber propagated plants [in practice, Irish potato and Jerusalem artichoke] and plants found in an uncultivated state (Section 161 of the General Patent Law);

(c) under the General (Utility) Patent Law: all varieties (on the basis of the decision in *in re* Hibberd of the US Board of Patent Appeals and Interferences of the Patent and Trademark Office).

ZA/SOUTH AFRICA⁶

Special Notes

⁶ Source: Regulations Relating to Plant Breeders' Rights.

Citrus L.: the definition of the protected entities is the following: Citrus spp. - sweet orange, lemon, grapefruit, loose skin types, other (bitter seville, lime, kumquat).

Fortunella Swingle: this genus is considered as included in Citrus spp.

Proteaceae: the definition of the protected entities is the following: Proteaceae (Aulax, Leucadendron, Leucospermum, Mimetes, Orothamnus, Paranomus, Protea, Serruria).

NOTES CLASSIFIED BY TAXA

The botanical nomenclature is not an absolute system, mainly because nature cannot be reduced to such a system. Determining the taxonomic rank which should be given to a certain type of plant, defining the borders of a genus or a species, classifying a species within a genus, all these involve some degree of judgement, and thus a risk that different decisions may be taken. This arbitrary element is a source of synonymies, as also is the progress of knowledge when it results in a critical re-examination of earlier decisions.

A list is given below of taxa mentioned in the main table and of their synonyms found mainly in the Diccionario de Plantas Agrícolas, in the Dictionary of Gardening, in Flora Agrícola, in Mansfeld and in Zander (see the introduction to this document). Although certain of these synonyms are today no more than curiosities, having fallen into disuse, others still have a definite importance, being used in scientific works and in practice, notably in commerce. Where relevant, the problems arising from nomenclature are briefly explained. Attention is drawn to the fact that it is the responsibility of the competent authorities of States to define with precision what is covered by a particular denomination for the purposes of plant variety protection.

Abelia R. Br.: synonymies with* *Linnaea*.

Abelmoschus esculentus (L.) Moench: syn.: *Hibiscus esculentus* L. (name stabilized by ISTA).

Abies sachalinensis (Fr. Schmidt) Mast.: the botanical variety *nemorensis* has the synonyms *A. nemorensis*, *A. wilsonii*.

Abutilon Mill.: synonymies with *Corynabutilon*, *Sida*.

Abutilon megapotamicum (Spreng.) St.-Hil. et Naud.: syn.: *A. vexillarium* E. Morr.

Abutilon x milleri hort. = *A. megapotamicum* x *A. pictum*.

Abutilon mollis Sweet: syn.: *Sida mollis* Ortega.

Abutilon theophrasti Medik.: syn.: *A. avicennae* Gaertn., *Sida abutilon* L.

Acacia Mill.: synonymies with *Albizia*, *Leucaena*, *Mimosa*.

* The expression "synonymies with" means that subdivisions of the taxon concerned have synonyms in the taxa indicated, and vice versa. In the case of the genus *Abelia*, for instance, a number of species thereof have also been described under the name *Linnaea*.

Acanthopanax (Decne. et Planch.) Miq.: synonymies with Eleutherococcus (the genus which includes Acanthopanax according to Zander, whereas it is the reverse according to the Dictionary of Gardening), Kalopanax.

Acanthopanax senticosus (Rupr. et Maxim. ex Maxim.) Harms.: syn.: Eleutherococcus senticosus (Rupr. et Maxim. ex Maxim.) Maxim.

Acca sellowiana (Berg) Burret.: further synonym: Orthostemon sellowianus Berg.

Acer L.: certain species have also been grouped into a genus Negundo. *A. septemlobum* Thunb. is a synonym of *Kalopanax septemlobus* (Thunb.) Koidz. [*K. pictus* (Thunb. ex Murray) Nakai—name stabilized by ISTA—, *Acanthopanax ricinifolius* (Sieb. et Zucc.) Seem.].

Acer negundo L.: syn.: *Negundo aceroides* Moench, *N. fraxinifolium* (Raf.) C. de Vos.

Achillea L.: synonymies with *Anthemis*, *Tanacetum*.

Achyranthes L.: synonymies with *Iresine* P. Br.

Adiantum L.: *A. adiantoides* (*A. hewardia*) has the synonym *Hewardia adiantoides*.

Aechmea Ruiz et Pav.: numerous synonymies, notably with *Androlepis*, *Billbergia*, *Bromelia*, *Canistrum*, *Chevaliera*, *Echinostachys*, *Gravisia*, *Hohenbergia*, *Hoplophytum*, *Lamprococcus*, *Macrochordium*, *Nidularium*, *Ortgiesia*, *Pironneava*, *Portea*, *Pothuava*, *Quesnelia*, *Streptocalyx*, *Wittmackia*.

Aërides Lour.: synonymies with *Ascocentrum*, *Ornithochilus*, *Rhynchostylis*, *Saccolabium*, *Sarcanthus*, *Vanda*.

Aeschynanthus Jack.: synonymies with *Lysionotus*, *Trichosporum*.

Aesculus L.: synonymies with *Pavia*.

Ageratum L.: *A. corymbosum* has the synonym *Caelestina ageratoides* and *A. lasseauxii* has the synonym *Eupatorium lasseauxii*.

Ageratum houstonianum Mill.: syn.: *A. mexicanum* Sims, *A. caeruleum*.

Agrocybe cylindracea (Fr.) Gill.: syn. (among others): *Pholiota aegerita* Quéf.

Agrostis L.: synonymies with *Achnatherum*, *Aira*, *Apera*, *Oryzopsis*, *Zoysia*.

Agrostis gigantea Roth.: syn.: *A. alba* auct. p.p. non L.

Agrostis scorpioides L.: according to Zander, the correct name is *M. palustris* (L.) L. (synonym: *M. scorpioides* L. emend. Hill, non emend. L.). *M. palustris* ssp. *caespititia* (DC.)

E. Baumann is a synonym of *M. rehsteineri* Wartm. (*M. caespitosa* K.F. Schultz ssp. *rehsteineri* (Wartm.) Nym., *M. caespitosa* (DC.) Kerner).

Agrostis stolonifera L.: syn.: *A. alba* auct. p.p. non L. According to ISTA, this species includes *A. palustris* Huds.

Agrostis tenuis Sibth.: syn.: *A. capillaris* L. (name stabilized by ISTA), *A. vulgaris* With.

x *Agrotriticum* = *Agropyron* x *Triticum*.

Albizia julibrissin Durazz.: syn.: *A. nemu*.

Alcea rosea L.: syn.: *Althaea rosea* (L.) Cav.

Allium ascalonicum L.: *A. ascalonicum* Lour. is a synonym of *A. fistulosum* L.

Allium bakeri Regel: *A. bakeri* Hoop. is a synonym of *A. fistulosum* L.

Allium cepa L.: *A. cepa* Lour. is a synonym of *A. fistulosum* L.

Allium fistulosum L.: syn.: *A. ascalonicum* Lour., *A. bakeri* Hoop., *A. cepa* Lour., *A. porrum* Debeaux.

Allium porrum L.: syn.: *A. ampeloprasum* porrum. *A. porrum* Debeaux is a synonym of *A. fistulosum* L.

Allium sativum L.: *A. sativum* L. var. *ophioscorodon* (Link) Döll has the synonyms *A. controversum* Schrad., *A. ophioscorodon* Link, *A. scorodoprasum* Lam.

Allium schoenoprasum L.: syn.: *A. sibiricum* L. (according to the *Diccionario de Plantas Agrícolas*). The botanical variety *sibiricum* has also been made into a species under the name *A. sibiricum* (according to the *Dictionary of Gardening*).

Allium tuberosum Rottler ex Spreng.: syn.: *A. angulosum* Lour. non L., *A. chinense* Maxim., *A. senescens* Miq. non L., *A. odorum* partim (according to the *Dictionary of Gardening*), *A. odorum* L. (according to the *Diccionario de Plantas Agrícolas*), *A. tuberosum* Roxb.

Alnus Mill.: certain species have also been classified in the genus *Betula*.

Alocasia (Schott) G. Don: synonymies with *Arum*, *Caladium*, *Colocasia*, *Cyrtosperma*, *Schizocasia*.

Aloë spec.: synonymies with *Apicra*, *Astroloba*, *Gasteria*, *Haworthia*, *Sansevieria*.

Alpinia Roxb.: synonymies with *Maranta*.

Amaranthus cruentus L.: syn.: *A. hybridus* L. (name stabilized by ISTA), *A. paniculatus* L., *A. chlorostachys* Willd., *A. hybridus paniculatus* (L.) Hejny.

Amelanchier Medik.: *A. canadensis* (L.) Medik. has the synonym *Mespilus canadensis* L.

Amorpha fruticosa L.: syn.: *A. pubescens* Schlecht.

Amorphophallus konjac C. Koch: syn.: *Hydrosme rivieri* (Durieu) Engl., *Proteinophallus rivieri*.

Ampelopsis hort.: synonymies with *Cissus*, *Parthenocissus*, *Vitis*.

Ananas comosus (L.) Merr.: syn.: *Bromelia ananas* L., *B. comosa* L., *B. comosa* Stickm., *A. sativus* (Lindl.) Schult. f., *Ananassa sativa* Lindl.

Anchusa angustissima K. Koch: syn.: *A. caespitosa* hort. non Lam.

Anchusa italica Retz.: syn.: *A. azurea* auct. non Mill. according to the tenth edition of Zander, *A. azurea* Mill. (name stabilized by ISTA) according to the twelfth edition of Zander and ISTA.

Andromeda L.: many species now classified in the genera *Arctostaphylos*, *Cassiope*, *Chamaedaphne*, *Enkianthus*, *Gaultheria*, *Leucothoë*, *Lyonia*, *Oxydendrum*, *Pernettya*, *Pieris*, *Phyllodoce*, *Vaccinium* and *Zenobia* are still listed and commercialized under the name *Andromeda*.

Anemone L.: synonymies with *Anemonella*, *Hepatica* and *Pulsatilla*.

Anemone hupehensis Lemoine: *A. hupehensis* (Lemoine) Lemoine has the synonym *A. japonica* (Thunb.) Sieb. et Zucc. var. *hupehensis* Lemoine. Its botanical variety *japonica* (Thunb.) Bowles et Stearn has the synonyms *A. japonica* (Thunb.) Sieb. et Zucc. non Houtt. and *A. nipponica* Merr.; *A. hupehensis* var. *tomentosa* (Maxim.) Hyl. is a synonym of *A. tomentosa* (Maxim.) Pe'i (*A. vitifolia* Buch.-Ham. var. *tomentosa* (Maxim.) Ulbr.). *A.-Japonica-Hybrids* is a denomination which according to Zander covers the hybrids of *A. hupehensis* var. *japonica* and of *A. vitifolia* and which has notably the synonym *A. x elegans* Decne. Concerning *A. elegans*, the Dictionary of Gardening refers to *A. hupehensis*.

Anethum graveolens L.: syn.: *A. sowa* Roxb., *Peucedanum graveolens*.

Angraecum Bory: this genus comprises the following sections, which have also been made into genera by certain authors: *Aëranthis*, *Angraecum* (in the restricted sense), *Calptrochilum*, *Cyrtorchis*, *Diaphanathe*, *Eurychone*, *Jumellea*, *Leptocentrum*, *Microcoelia*, *Mystacidium*, *Neofinetia*, *Tridactyle*. In Zander and "Orchid care - A guide to cultivation and breeding" (Walter Richter - Studio Vista, London), *Angraecum* is considered in the restricted sense. In the Dictionary of Gardening, it is considered in the wide sense. The latter records further synonymies with: *Aeonia* (*Oeonia*), *Aëranthus*, *Angraecopsis*, *Dendrophylax*, *Listrostachis*, *Saccolabium*.

Anigozanthos Labill.: *A. fuliginosus* is a synonym of *Macropidia fumosa*.

Annona L.: *A. triloba* has the synonym *Asimina triloba*.

Annona squamosa L.: syn.: *A. asiatica* L.

Anthemis L.: synonymies with *Achillea*, *Anacyclus*, *Chamaemelum*, *Chrysanthemum*, *Cladanthus*, *Ormenis*.

Anthriscus cerefolium (L.) Hoffm.: syn.: *Chaerophyllum sativum*, *Scandix cerefolium* L.

Anthurium Schott: synonymies with *Philodendron*, *Pothos*, *Spathiphyllum*.

Anthurium x cultorum Birdsey: syn.: *A.-Andreanum-Hybrids*, *A. andreanum hort. non Lind.*

Anthurium x scherzeranum hort. non Schott: syn.: *A.-Scherzeranum-Hybrids*, *A. x hortulanum Birdsey*.

Aptenia cordifolia (L. f.) Schwant.: syn.: *Mesembryanthemum cordifolium* L. f.

Aquilegia L.: *A. ecalcarata* Maxim. is a synonym of *Semiaquilegia ecalcarata* (Maxim.) Sprague et Hutchins.

Arachis hypogaea L.: syn.: *A. nambyquarae* Hohehne.

Aralia cordata Thunb.: syn.: *A. edulis* Sieb. et Zucc.

Aralia elata (Miq.) Seem.: syn.: *Dimorphanthus elatus* Miq., *D. mandshuricus* (Maxim.) Maxim. et Rupr., *A. mandshurica* Maxim., *A. chinensis* L. var. *mandshurica* (Maxim.) Rehd.

Arbutus L.: synonymies with *Arctostaphylos* (*Arbutus uva-ursi* L. and *Arctostaphylos uva-ursi* (L.) Spreng.) and *Pernettya* (*A. furiens* and *P. furiens*).

Arctium lappa L.: syn.: *Lappa major* Gaertn.

Arctostaphylos Adans.: synonymies with *Arbutus*, *Arctous*, *Mairrania*, *Uva-ursi*.

Ardisia crispa A. DC.: syn.: *Bladhia crispa* Thunb. According to the Dictionary of Gardening, *A. crispa* has the synonyms *A. crenata*, *A. crenulata*, *A. elegans*. According to Zander, *A. crenata* Sims (*A. crenulata* Lodd.) is not *A. crispa* (Thunb.) A. DC. *A. crenata* Sims has been stabilized by ISTA.

Argyranthemum Webb: synonymies with *Chrysanthemum*. *A. frutescens* (L.) Webb is a synonym of *C. frutescens* L.

Aristolochia L.: *A. chrysops* has the synonym *Isotrema chrysops* and *A. heterophylla* has the synonym *Isotrema heterophylla*.

Armeria (DC.) Willd.: synonymies with *Statice*.

Armoracia rusticana Gaertn., Mey. et Scherb.: syn.: *A. lapathifolia* Gilib., *A. sativa* Bernh., *Cochlearia armoracia* L., *Raphanis magna* Moench.

Aronia Medik.: synonymies with Mespilus, Pyrus, Sorbus.

Aronia melanocarpa (Michx.) Elliott: syn.: Mespilus arbutifolia L. var. melanocarpa Michx., Sorbus melanocarpa (Michx.) Heynh.

Arrhenatherum elatius (L.) P. Beauv. ex J. et C. Presl: syn.: A. avenaceum Beauv., Avena elatior L.

Artemisia L.: A. laxa (Lam.) Fritsch has the synonym Absinthium laxum Lam.

Arundinaria Michx.: synonymies with Bambusa, Chimonobambusa, Pleioblastus, Pseudosasa, Sasa, Semiarundinaria, Sinarundinaria, Thamnocalamus.

Asclepias L.: synonymies with Cynanchum, Gomphocarpus, Hoya, Xysmalobium.

Ascocentrum Schlechter: synonymies with Saccolabium, a genus of which Ascocentrum is a section when it is taken in the wide sense.

Aspidistra elatior Bl.: syn.: A. lurida hort. non Ker-Gawl., A. punctata.

Asplenium L.: synonymies with Athyrium, Diplazium, Ceterach.

Aster L.: synonymies recorded in Zander with Bellidiastrum, Calimeris (Kalimeris), Callistephus, Crinitaria, Felicia, Lynosyris, Microglossa. According to the Dictionary of Gardening, "many attempts have been made to separate groups of this large genus as distinct genera and some have gained a recognized place, but the following seems scarcely distinct enough to warrant separation and are here regarded as forming part of the genus Aster: Bellidiastrum, Calimeris, Doellingeria, Eucephalus, Galatella, Ionactis, Leucelene, Machaeranthera, Oreostemma, Xylorrhiza." Synonymies with the following genera have also been recorded in the Dictionary of Gardening: Biota, Boltonia, Diplopappus, Erigeron, Inula.

Astilbe Buch.-Ham. ex D. Don: synonymies with Hoteia, Spiraea.

Aubrieta Adans. = Aubrietia DC.: A. purpurea has the synonym Arabis purpurea.

Aulax spec.: synonymies with Protea.

Auricularia auricula-judae (Fr.) Quél.: main synonym: Hirneola auriculajudae (L. ex Fr.) Berk.

Auricularia polytricha (Mont.) Sacc.: main synonym: Hirneola polytricha (Mont.).

Avena L.: synonymies with Arrhenatherum, Avenula, Helictotrichon, Trisetum.

Avena nuda L.: A. strigosa Schreb. is a synonym of A. nuda L. ssp. nuda (A. strigosa Schreb. ssp. strigosa (Schreb.) Mansf.).

Babiana stricta (Ait.) Ker-Gawl.: the botanical variety sulphurea has also been named Gladiolus sulphureus and G. plicatus.

Bambusa Schreb.: synonymies with Arundinaria, Chimonobambusa, Gigantochloa, Phyllostachys, Pseudosasa, Sasa, Semiarundinaria, Shibataea.

Begonia semperflorens-cultorum Krauss: syn.: Begonia-Semperflorens-Hybrids, B. x hortensis Graf et Zwicky, B. Semperflorens-cultorum, Gracilis group.

Belamcanda chinensis (L.) DC.: syn.: Pardanthus chinensis (L.) Ker-Gawl., Gemmingia chinensis (L.) O. Kuntze, B. punctata Moench, Ixia chinensis L.

Benincasa hispida (Thunb.) Cogn.: syn.: B. cerifera Savi, Cucurbita hispida Thunb., C. pepo Lour. and, according to Zander, Lagenaria siceraria (Mol.) Standl. var. hispida (Thunb.) Hara.

Berberis L.: The mahonias, with pinnate leaves, have been separated from berberis, with entire leaves, but can still be found under the name berberis.

Bergenia Moench: synonymies with Megasea, Saxifraga.

Beta vulgaris L. ssp. vulgaris var. vulgaris: syn.: B. cicla L.

Betula L.: certain species now form the genus Alnus.

Bletilla Rchb. f.: synonymies with Arethusa, Bletia. B. striata has also been named Cymbidium hyacinthinum.

Boltonia asteroides (L.) L'Hér.: syn.: B. glastifolia (Hill) L'Hér. B. latisquama A. Gray is a synonym of B. asteroides var. latisquama (A. Gray) Cronq.

Bougainvillea spectabilis Willd.: syn.: Josepha augusta. According to the Dictionary of Gardening, forms of this species have also been named B. bracteata, B. brasiliensis, B. peruviana, B. splendens. In Zander, B. peruviana Humb. et Bonpl. is considered a species. The variety 'Mrs Butt' has also been classified in a species B. buttiana (cf. Encyclopédie des plantes d'appartement - M. Schubert and R. Herwig - Denoël).

Bouvardia Salisb.: B. longiflora has the synonym Aeginetia longiflora, and B. triphylla (B. jacquinii), Houstonia coccinea.

Brachiaria brizantha (Hochst. ex A. Rich.) Stapf: syn.: B. gangalaensis Vanderyst, B. manzonzeensis Vanderyst, Panicum brizanthum Hochst.

Brachyscome Cass.: B. diversifolia has the synonyms Brachystephium leucanthemoides, Pyrethrum diversifolium.

Brassavola R. Br.: synonymies with Epidendrum, Laelia, Rhyncholaelia.

Brassica carinata A. Braun: syn.: *Melosinapis abyssinica* hort., *Sinapis abyssinica* A. Br., *S. dillonii* Touchy.

Brassica juncea (L.) Czern. et Coss. in Czern.: syn.: *B. besseriana* Andrz., *B. integrifolia* (West.) Rupr., *B. japonica* Sieb., *Sinapis integrifolia* West., *Sinapis juncea* L.

Brassica napus L. var. napobrassica (L.) Rchb.: syn.: *B. campestris* L. var. *napobrassica* DC., *B. napo-brassica* Mill.

Brassica napus L. ssp. oleifera (Metzg.) Sinsk: further synonym: *B. napus* L. var. *napus*.

Brassica nigra (L.) W. Koch: syn.: *B. juncea* Sickenb., *Sinapis nigra* L.

Brassica pekinensis (Lour.) Rupr.: syn.: *B. cernua* (Thunb. ex Murray) Forb. et Hemsl., *B. pétsai* L.H. Bail., *Sinapis pekinensis* Lour. According to the Dictionary of Gardening, this is perhaps a cultivated form of *B. integrifolia*. The common name "Chinese cabbage" and its equivalents in the other languages are also used for *B. chinensis* L.

Brassica rapa L.: syn.: *B. campestris* L.

Bromus arvensis L.: *B. arvensis* Poll. non L. is a synonym of *B. erectus* Huds.

Bromus catharticus Vahl: further synonym: *B. willdenowii* Kunth.

Buchloë dactyloides (Nutt.) Engelm.: syn.: *Anthephora axilliflora* Steud., *Bulbilis dactyloides* Raf., *Calanthera dactyloides* Kunth, *Cascostegia dactyloides* Fourn., *C. hookeri* Rupr., *C. humilis* Rupr., *Sesleria dactyloides* Nutt.

Buddleja L.: *B. indica* Lam. is a synonym of *Nicodemia diversifolia* Ten.

Buddleja davidii Franch.: syn.: *B. variabilis* Hemsl.

Caladium bicolor (Ait.) Vent.: syn.: *Arum bicolor* Ait. The botanical varieties have also been made into species (*C. argyrosphilum*, *C. baraquinii*, *C. brongniartii*, *C. chantinii*, *C. devosianum*, *C. leopoldii*, *C. macrophyllum*, *C. neumannii*, *C. regale*, *C. rubrivenium*).

Calanthe R. Br.: synonymies with *Bletia*, *Limatodes*.

Calathea G.F.W. Mey.: synonymies with *Maranta*, name under which many *Calatheas* are commercialized, *Phrynium*, *Thalia*. *C. allouia* is known in certain languages as *Topinambour*.

Calceolaria L.: the species of the genus *Jovellana* are frequently included in the genus *Calceolaria*.

Calceolaria x herbeohybrida Voss: syn.: *C.*-Hybrids, *C. x speciosa* Lilja, *C. x hybrida* hort.

Callicarpa purpurea Juss.: syn.: *C. dichotoma* (Lour.) K. Koch, *C. japonica* Thunb. var. *angustifolia* Sav., *C. gracilis*, *C. koreana*.

Callistemon R. Br.: synonymies with *Metrosideros*.

Callistephus chinensis (L.) Nees: syn.: *Aster chinensis* L.

Calluna vulgaris (L.) Hull: syn.: *Erica vulgaris* L.

Camelina sativa (L.) Crantz: syn.: *Myagrum sativum* L.

Camellia L.: *Thea sinensis* is frequently included in the genus *Camellia* under the names *Camellia sinensis* (L.) O. Kuntze (name stabilized by ISTA), *C. thea* Link, *C. theifera* Griff., *C. bohea*.

Camellia japonica L.: syn.: *Thea japonica* Baill.

Camellia sasanqua Thunb.: syn.: *Thea sasanqua* Nois.

Campanula L.: synonymies with *Adenophora*, *Asyneuma*, *Azorina*, *Canarina*, *Edraianthus*, *Legousia*, *Phyteuma*, *Platycodon*, *Symphyandra*, *Wahlenbergia*.

Campsis Lour.: synonymies with *Bignonia*, *Tecoma*.

Cannabaceae: this family is sometimes included in the *Moraceae*.

Cannabis sativa L.: according to Zander the form 'Gigantea' (var. *chinensis* (Del.) A. DC.) has the synonym *C. gigantea* hort. According to the Dictionary of Gardening, *C. gigantea* and *C. sativa* are synonyms.

Carica papaya L.: syn.: *Papaya carica*.

Carpinus L.: two species have been separated by certain botanists from the genus *Carpinus* to form the genus *Distegocarpus* (*C. cordata* (D. cordata) and *C. japonica* (D. carpinus)).

Carya illinoensis (Wangenh.) C. Koch: syn.: *C. oliviformis* (Michx.) Nutt., *Hicoria pecan* (Marsh.) Britt., *C. pecan* (Marsh.) Engl. et Graebn. non (Walt.) Nutt., *Juglans illinoensis* Wangenh.

Caryopteris incana (Thunb. ex Houtt.) Miq.: syn.: *C. mastacanthus* Schau., *C. sinensis* (Lour.) Dipp., *C. tangutica* Maxim., *Mastacanthus sinensis*.

Cassiope D. Don: synonymies with *Harrimanella*. The species of this genus have also been classified in *Andromeda* and may still be commercialized under that name.

Castanea Mill.: synonymies with *Castanopsis*, *Fagus*, *Fagus-castanea*.

Castanea sativa Mill.: syn.: *C. vera* Gaertn., *C. vulgaris* Lam., *Fagus castanea* L.

Cataranthus roseus (L.) G. Don: syn.: *Vinca rosea* L., *Lochnera rosea* (L.) Rchb.

Cattleya Lindl.: synonymies with *Encyclia*, *Epidendrum*, *Laelia*, *Schomburgkia*, *Sobralia*, *Sophranitis*.

Ceanothus L.: *C. asiaticus* L. is a synonym of *Colubrina asiatica* (L.) Brongn.

Celosia cristata L.: syn.: *C. argentea* L. var. *cristata* (L.) O. Kuntze.

Cenchrus ciliaris L.: syn.: *Pennisetum ciliare* (L.) Link.

Centaurea L.: synonymies with *Aetheopappus*, *Amberboa*, *Cnicus*, *Rhaponticum*.

Ceratostigma plumbaginoides Bunge: syn.: *Plumbago larpentae* Lindl., *Valoradia plumbaginoides*.

Chaenomeles Lindl.: the species of this genus have also been classified in the genera *Cydonia* and *Pyrus*. *Pseudocydonia sinensis* Schneid. has the synonyms *Chaenomeles sinensis* and *Cydonia sinensis* (Dum.-Cours.) Schneid.

Chamaecyparis Spach: synonymies with *Cupressus*, *Retinispora*, *Thuyopsis*.

Chamaecyparis lawsoniana (A. Murray) Parl.: syn.: *Cupressus lawsoniana* A. Murray.

Chamaecyparis obtusa (Sieb. et Zucc.) Sieb. et Zucc. ex Endl.: syn.: *Retinispora obtusa* Sieb. et Zucc., *Cupressus obtusa* (Sieb. et Zucc.) K. Koch. The botanical variety *ericoides* also has the synonym *Retinispora sanderi*.

Chamaecytisus palmensis L.F. Link: syn.: *Cytisus palmensis*, *C. proliferus* var. *palmensis*.

Chamaemelum nobile (L.) All.: syn.: *Anthemis nobilis* L., *Ormenis nobilis* (L.) J. Gray. See also under *Matricaria chamomilla*.

Chamaelaucium Desf.: syn.: *Chamaelaucium* DC.

Chamomilla recutita (L.) Rauschert: see under *Matricaria recutita*.

Cheiranthus L.: synonymies with *Erysimum*, *Malcolmia*, *Parrya*.

Cheiranthus cheiri L.: syn.: *Erysimum cheiri* (L.) Crantz. The botanical variety *senoneri* also has the synonym *C. senoneri*.

Chenopodium album L.: syn.: *Anserina candicans* Montand., *Atriplex alba* Cr., *A. viridis* Cr., *Blitum viride* Moench, *Chenopodium amaranticolor* Coste et Reyn., *Ch. candicans* Lam., *Ch. hybridum* Lour., *Ch. leiospermum* DC., *Ch. reticulatum* Aellen, *Ch. serotinum* Ledeb., *Ch. virgatum* Thunb., *Ch. viride* L., *Ch. vulgare* Güld., *Ch. vulgare* L.

Chimonanthus Lindl.: synonymies with Calycanthus.

Chrysanthemum L.: synonymies with Anthemis, Argyranthemum, Balsamita, Chrysoboltonia, Leucanthemum, Matricaria, Parthenium, Plagiis, Pyrethrum, Tanacetum. In the stabilization of certain species names, ISTA divided the genus into Chrysanthemum (in the restricted sense), Dendranthema, Leucanthemum, Tanacetum. Dendranthema comprises in particular D. indicum (L.) Desm. and D. morifolium (Ramat.) Tzvelev.

Chrysanthemum cinerariaefolium Bocq.: syn.: C. cinerariifolium (Trev.) Vis., Pyrethrum cinerariifolium Trev., Tanacetum cinerariifolium (Trev.) Schultz Bip. (name stabilized by ISTA).

Chrysanthemum coccineum Willd.: syn.: C. roseum Adam, Pyrethrum roseum (Adam) M.B., P. carneum M.B., Tanacetum coccineum (Willd.) Grierson (name stabilized by ISTA).

Chrysanthemum coronarium L.: syn.: C. segetum Hemsl.

Chrysanthemum frutescens L.: syn.: Argyranthemum frutescens (L.) Webb.

Chrysanthemum-Indicum-Hybridae and C. x hortorum L.H. Bailey: further synonym: C. indicum hort. non L.

Chrysanthemum leucanthemum L.: syn.: Leucanthemum vulgare Lam. (name stabilized by ISTA).

Chrysanthemum maximum Ram.: C. maximum hort. is a synonym of C. lacustre Brot. (C. superbum Bergm.).

Chrysanthemum morifolium Ramat.: syn.: C. sinense Sabine, C. vestitum Stapf, Dendranthema morifolium (Ramat.) Tzvelev (name stabilized by ISTA).

Chrysanthemum parthenium (L.) Bernh.: syn.: Tanacetum parthenium (L.) Schultz Bip. (name stabilized by ISTA), Matricaria parthenium L., M. parthenioides (Desf.) hort., M. capensis hort. non L., M. eximia hort., Leucanthemum parthenium (L.) Gren. et Godr., Pyrethrum parthenium (L.) Sm.

Cimicifuga Wernischek: synonymies with Actaea, Pytirosperma.

Cinnamomum camphora (L.) J.S. Presl: syn.: C. camphora Th. Nees et Eberm., Camphora officinarum, Laurus camphora L.

Cirsium Mill. emend. Scop.: synonymies with Carduus, Cnicus, Ptilostemon.

Cistus L.: synonymies with Fumana, Halimium.

Citrullus lanatus (Thunb.) Matsum. et Nakai: syn.: Cucurbita citrullus L., Momordica lanata Thunb., Citrullus vulgaris Schrad., Cucumis citrullus.

Citrus L.: synonymies with Aurantium, Fortunella, Limonia, Poncirus.

Citrus limon (L.) Burm. f.: syn.: *C. limonum* Risso, *C. medica* var. *limon* L., *C. medica* var. *limonum* (Risso) Wight et Arn.

Citrus x paradisi Macfad. = *C. maxima* x *C. sinensis*. Syn.: *C. decumana* var. *racemosa* (Risso et Poit.) Roem., *C. racemosa* (Risso et Poit.) Marcov. ex Tanaka.

Citrus reticulata Blanco: syn.: *C. nobilis* Andr. non Lour., *C. deliciosa* Ten.

Citrus sinensis (L.) Pers.: syn.: *C. sinensis* (L.) Osbeck, *C. aurantium* Lour., *C. aurantium* var. *sinensis* L., *C. aurantium* ssp. *sinensis* (L.) Engl.

Clarkia amoena (Lehm.) A. Nels. et Macbr.: syn.: *Godetia amoena* (Lehm.) G. Don.

Clarkia unguiculata Lindl.: syn.: *C. elegans* Dougl. non Poir.

Clematis L.: synonymies with *Atragene*, *Clematopsis*.

Clematis heracleifolia DC.: syn.: *C. tubulosa* Turcz. *C. davidiana* Decne. ex Verlot is a synonym of *C. heracleifolia* DC. var. *davidiana* (Decne. ex Verlot) Hemsl.

Cleome L.: synonymies with *Gynandropsis*, *Peritoma*.

Clethra alnifolia L.: the botanical varieties have also been made into species (*C. paniculata*, *C. tomentosa*).

Clethra barbinervis Sieb. et Zucc.: syn.: *C. canescens*.

Clethra tomentosa Lam.: syn.: *C. alnifolia pubescens*, *C. alnifolia tomentosa*.

Clianthus puniceus (G. Don) Soland. ex Lindl.: syn.: *Donia punicea* G. Don.

Clivia Lindl.: synonymies with *Imantophyllum*.

Cnicus benedictus L.: syn.: *Centaurea benedicta* L.

Cocculus DC.: synonymies with *Diploclisia*, *Sinomenium*.

Codiaeum variegatum (L.) A. Juss.: syn.: *Croton variegatus* L. *C. pictum* (Lodd.) Hook. is a synonym of *C. variegatum* (L.) A. Juss. var. *pictum* (Lodd.) Muell. Arg.

Colchicum L.: synonymies with *Bulbocodium*, *Merendera*.

Coleus Lour.: synonymies with *Germanea*, *Neomuellera*, *Plectranthus*.

Coleus blumei Benth.: syn.: *C.-Blumei-Hybrids*.

Colocasia Schott.: synonymies with *Alocasia*, *Arum*, *Caladium*.

Convallaria L.: certain species of the genera Liliaceae, Liriope, Maianthemum, Ophiopogon and Polygonatum have also been classified in the genus Convallaria.

Cordyline Comm. ex Juss. : synonymies with Dracaena.

Cordyline australis (Forst.) Endl.: syn.: Dracaena australis G. Forst.

Cordyline banksii Hook.: syn.: Dracaena beuckelaerii K. Koch.

Cordyline indivisa (Forst.) Steud.: syn.: Dracaena indivisa (G. Forst.) hort.

Coreopsis L.: synonymies with Bidens, Calliopsis, Chrysostemma, Cosmos, Leptosyne.

Coreopsis tinctoria Nutt.: syn.: C. elegans, Calliopsis bicolor Rehb., C. tinctoria (Nutt.) DC.

Cornus L.: in view of variations recorded on the inflorescence, certain botanists have divided the genus Cornus into Afrocania, Chamaepericlymenum, Cornus (in the restricted sense), Cynoxylon, Dendrobenthamia, Macrocarpium. In addition, synonymies with Benthamia.

Cornus mas L.: syn.: Macrocarpium mas.

Cortaderia Stapf.: synonymies with Arundo, Gynerium.

Cosmos Cav.: synonymies with Bidens, Coreopsis, Dahlia.

Cotinus coggygria Scop.: syn.: Rhus cotinus L.

Cotoneaster Medik.: synonymies with Mespilus (C. acuminatus and M. acuminata), Pyracantha (C. pyracantha and P. coccinea).

Crataegus L.: synonymies with Malus and Pyrus (C. trilobata), Mespilus (C. orientalis and M. odoratissima), Sorbus.

Crocsmia Planch.: synonymies with Montbretia, Tritonia.

Cryptomeria japonica (L. f.) D. Don.: the botanical varieties of this species, the only one of its genus, have also been made into species in their own right.

Cryptotaenia japonica Hassk.: syn.: C. canadensis Sieb. et Zucc.

Cucumis L.: synonymies with Citrullus, Cucurbita, Luffa.

Cucurbita L.: synonymies with Benincasa, Citrullus, Cucumis (Cucurbita foetidissima and Cucumis perennis - ornamental species), Lagenaria, Sicana.

Cucurbita maxima Duch.: C. maxima Wight et Arn. is a synonym of C. moschata Duch.

Cucurbita pepo L.: syn.: *C. melopepo* L., *C. ovifera* L., *C. verrucosa* L. *C. pepo* Lour. is a synonym of *Benincasa hispida* (Thunb.) Cogn.

x Cupressocyparis Dallim. = *Chamaecyparis* x *Cupressus*. The main species is x *Cupressocyparis leylandii* (Jacks. et Dallim.) Dallim., which is a cross between *Chamaecyparis nootkatensis* and *Cupressus macrocarpa* and has the synonym *Cupressus leylandii* Jacks. et Dallim.

Cupressus L.: synonymies with *Chamaecyparis*, x *Cupressocyparis*, *Fokienia*, *Taxodium*.

Cupressus arizonica E. Greene: The botanical variety *bonita* has also been made into a species under the name *C. glabra*.

Cupressus sempervirens L.: the botanical varieties *horizontalis*, *indica* and *stricta* (or *fastigiata*) have also been made into species under the names *C. horizontalis* Mill., *C. roylei* and *C. fastigiata*, respectively.

Curtonus N.E. Br.: monotypic genus whose species, *C. paniculatus* (Klatt) N.E. Br., has the synonym *Antholyza paniculata* Klatt.

Cyclamen persicum Mill.: syn.: *C. latifolium* Sibth. et Sm., *C. aleppicum* Fisch., *C. puniceum* Pomel, *C. aleppicum* ssp. *puniceum* (Pomel) Glasau, *C. tomentosum*, *C. albidum*.

Cymbidium Sw.: synonymies with *Cymbidiella*, *Cyperorchis*, *Epidendrum*, *Grammangis*, *Grammatophyllum*, *Iridorchis*.

Cyphomandra betacea (Cav.) Sendtn.: syn.: *Solanum betaceum* Cav.

Cyrtanthus L. f.: *C. clavatus* has also been named *Gastronema clavatum*.

Cytisus L.: synonymies with *Cajanus*, *Chamaecytisus*, *Coroethamnus*, *Genista*, *Laburnum*, *Lembotropis*, *Petteria*, *Sarothamnus*, *Spartium*, *Spartocytisus*, *Teline*.

Cytisus fragrans Lam.: syn.: *C. supranubius*, *C. nubigenus*, *Genista fragrans*, *G. nubigenus*, *Spartocytisus supranubius*.

Daboecia D. Don: synonymies with *Boretta*, *Menziesia*.

Dactylis aschersoniana Graebn.: syn. (according to the *Diccionario de Plantas Agrícolas*): *D. glomerata* L.

Dahlia Cav.: *D. zimapanii* is a synonym of *Cosmos diversifolius*.

Dahlia x cultorum Thorsr. et Reis.: syn.: *D.*-Hybrids, *D. variabilis* hort. non (Willd.) Desf.

Daphne L.: synonymies with *Funifera*, *Mezereon*, *Thymelaea*.

Daphne odora Thunb. ex Murray: syn.: *D. japonica* Paxt., *D. sinensis*, *D. indica* hort.

Datura innoxia Mill.: syn.: *D. fastuosa* L. (name stabilized by ISTA), *D. metel* Uria (non L.), *D. meteloides* DC. (non Dun.), *D. wrightii*.

Delphinium L.: synonymies with *Consolida*.

Dendranthema (DC.) Desmoul.: see under *Chrysanthemum*.

Dendrobium Sw.: synonymies with *Aporum*, *Callista*, *Dipodium*, *Epigeneium*, *Genyorchis*, *Latouria*.

Deschampsia cespitosa (L.) P. Beauv.: syn: *Aira cespitosa* L.

Dianthus L.: *D. noeanus* is frequently commercialized under the name *Acanthophyllum spinosum*.

Dicentra Borkh. emend. Bernh.: synonymies with *Diclythra*, *Diclytra*, *Dielytra*, *Fumaria*.

Dichelostemma Kunth: synonymies with *Brodiaea*.

Dieffenbachia Schott: synonymies with *Caladium*.

Diervilla Mill.: modern American authors group under the name *Diervilla* solely the species of American origin and under the name *Weigela* the Asiatic species (A. Belot. *Dictionnaire des arbres et arbustes de jardin* - Bordas). Others group all species under the name *Diervilla*.

Digitalis L.: *D. chinensis* is a synonym of *Adenosma grandiflorum*.

Dimorphotheca Moench: synonymies with *Calendula*, *Castalis*, *Osteospermum*.

Dioscorea L.: synonymies with *Bordera*, *Helmia*, *Oncos*, *Tamus*, *Testudinaria*.

Dizygotheca N.E. Br.: synonymies with *Aralia*.

Doronicum L.: synonymies with *Arnica*, *Aronicum*.

Dracaena Vand. ex L.: syn.: *Terminalis*. Synonymies with *Cordyline* and subsidiarily *Sansevieria*.

Echinacea purpurea (L.) Moench: syn.: *Rudbeckia purpurea* L.

Emilia Cass.: synonymies with *Cacalia*, *Senecio*.

Enkianthus Lour.: synonymies with *Andromeda*, *Meisteria*, *Melidora*, *Rhodora*.

Epidendrum L. 1763, non 1753: synonymies with *Barkeria*, *Broughtonia*, *Cattleya*, *Caularthron*, *Diacrium*, *Dinema*, *Encyclia*, *Isochilus*, *Nanodes*, *Schomburgkia*, *Seraphyta*, *Sobralia*.

Epiphyllopsis Berger, Rhipsalidopsis Britt. et Rose, Schlumbergera Lem., Zygocactus K. Schum.: the majority of the species of these genera have been classified in the genus Epiphyllum and are still known under that name, which is the correct one for most of the plants formerly known as Phyllocactus. The genus Epiphyllopsis is not mentioned in the Dictionary of Gardening and in the 12th edition of Zander. In its 10th edition, Zander refers to Rhipsalidopsis gaertneri (Regel) Lindgr. [Epiphyllum russellianum Hook. var. gaertneri Regel, Schlumbergera gaertneri (Regel) Britt. et Rose, Epiphyllopsis gaertneri (Regel) Berger]. With respect to the genus Rhipsalidopsis, the Dictionary of Gardening refers to R. rosea (Lagerh.) Britt. et Rose [Rhipsalis rosea Lagerh.]. According to Zander, this genus also comprises R. gaertneri (Regel) Lindgr. [see above] and R. x graeseri (Werderm.) Moran [R. gaertneri x R. rosea, Rhipsalis x graeseri Werderm., x Rhipsapphyllopsis graeseri Werderm.]. According to the 12th edition of Zander, the genus Zygocactus is included in the genus Schlumbergera. In its 10th edition, Zander mentioned under Zygocactus Z.-Hybrids and Z. truncatus (Haw.) K. Schum. [Epiphyllum truncatum Haw., Schlumbergera truncata (Haw.) Moran]; the latter is also mentioned in the Dictionary of Gardening under Zygocactus.

Epiphyllopsis gaertneri (Regel) Berger: syn.: Rhipsalidopsis gaertneri (Regel) Lindgr., Epiphyllum russellianum Hook. var. gaertneri Regel, Schlumbergera gaertneri (Regel) Britt und Rose.

Eragrostis curvula (Schrad.) Nees: syn.: Poa curvula Schrad.

Eragrostis tef (Zucc.) Trotter: syn.: Poa tef Zucc., Poa abyssinica Jacq., E. abyssinica (Jacq.) Link.

Erica carnea L.: syn.: E. herbacea L. The latter name is frequently used for E. carnea var. alba.

Erica ciliaris L.: the botanical variety maweana is also known as E. maweana.

Erica x darleyensis Bean = E. carnea x E. mediterranea. Syn.: E. hybrida, E. mediterranea hybrida.

Erica lusitanica Rud.: syn.: E. coconodes.

Erica mackaiana Bab.: this is probably a hybrid E. ciliaris x E. tetralix.

Erica mediterranea hort.: syn.: E. purpurascens L. The Dictionary of Gardening gives also E. carnea occidentalis as a synonym of E. mediterranea.

Erica terminalis Salisb.: syn.: E. stricta Andr. non Donn ex Willd., E. corsica, E. ramulosa.

Erica x veitchii Bean = E. arborea x E. lusitanica.

Erica x watsonii Benth. = E. ciliaris x E. tetralix.

Erica x williamsii Druce = E. tetralix x E. vagans.

Erigeron L.: synonymies with Aster, Stenactis, Vittadinia.

Eriobotrya japonica (Thunb.) Lindl.: syn.: Mespilus japonica, Photinia japonica.

Erysimum L.: synonymies with Cheiranthus.

Eucryphia glutinosa (Poepp. et Endl.) Baill.: syn.: E. pinnatifolia Gay.

Eucryphia x intermedia Bausch: name proposed for hybrids between E. glutinosa and E. lucida.

Eucryphia x nymanensis Bausch: name proposed for hybrids between E. cordifolia and E. glutinosa.

Euphorbia L.: synonymies with Monadenium, Pedilanthus, Poinsettia, Sarcostemma.

Euphorbia fulgens Karw.: syn.: E. jacquiniiflora Hook.

Euphorbia milii Desmoulins: syn.: E. splendens Boj. ex Hook. Its botanical variety milii is also known as E. bojeri Hook. E. hislopianus N.E. Br. has the synonym E. milii var. hislopianus (N.E. Br.) Ursch et Leandri.

Euphorbia pulcherrima Willd. ex Klotzsch: syn.: Poinsettia pulcherrima (Willd. ex Klotzsch) Grah.

Eustoma russellianum (Hook.) G. Don: syn.: Lisianthus russelianus Hook.

Exochorda Lindl.: E. racemosa has also been named Spiraea grandiflora.

Fagopyrum esculentum Moench: syn.: Polygonum fagopyrum L., F. sagittatum Gilib., F. vulgare Th. Nees.

Fagus L.: synonymies with Castanea, Nothofagus.

x Fatsyhedera Guillaum. = Fatsia x Hedera.

Fatsia japonica (Thunb. ex Murr.) Decne. et Planch.: syn.: Aralia japonica Thunb., A. sieboldii hort.

Feijoa sellowiana (Berg) Berg: further synonym: Orthostemon sellowianus Berg.

Festuca L.: F. fluitans L. is a synonym of Glyceria fluitans (L.) R. Br. (name stabilized by ISTA) and F. spicata Pursh. a synonym of Agropyrum spicatum (Pursh.) Scribn. et Smith (name stabilized by ISTA).

Festuca arundinacea Schreb.: syn.: *F. elatior* L. (according to ISTA), *F. elatior* L. p.p. (according to Zander).

Festuca ovina L. sensu lato: according to ISTA, this species includes *F. tenuifolia* Sibth.

Festuca pratensis Huds.: syn.: *F. elatior* L. (according to the Diccionario de Plantas Agrícolas), *F. elatior* auct. non L. (according to ISTA) and *F. elatior* L. p.p. (according to Zander).

x Festulolium = *Festuca* x *Lolium*

Ficus spec.: synonymies with *Artocarpus*.

Ficus benjamina L.: syn.: *Fixus nitida* Thunb.

Foeniculum vulgare P. Mill.: syn.: *F. foeniculum* Karst., *F. officinale* All., *F. capillaceum* Gilib. The botanical variety *dulce* Batt. et Trab. has the synonym *F. dulce* Mill.

Fortunella Swingle: synonymies with *Citrus*, *Sclerostylis*.

Fragaria x ananassa Duch. = *F. chiloensis* x *F. virginiana*. Syn.: *F. grandiflora* Ehrh.

Fremontodendrum Coville: syn.: *Fremontia* Torr. 1854 non 1843.

Fritillaria L.: synonymies with *Notholirion*, *Rhinopetalum*, *Uvularia*.

Fuchsia magellanica Lam.: syn.: *F. macrostemma* Ruiz et Pav. The botanical variety 'Riccartonii' has the synonyms *F. riccartonii* Lebas, *F. riccartoniana* hort.

Gaillardia Foug.: *G. acaulis* Pursh is a synonym of *Hymenoxys* (Pursh) Parker (*Actinea acaulis* (Pursh) Spreng., *Tetraneuris acaulis* (Pursh) Greene, *Actinea herbacea* A. Gray).

Galega L.: *G. singapou* Buchoz. is a synonym of *Tephrosia singapou* (Buchoz.) A. Cheval.

Galega orientalis Lam.: syn.: *G. montana* M. Bieb.

Gardenia Ellis: synonymies with *Mitriostigma*, *Randia*.

Garrya x thuretii Carr. = *G. elliptica* x *G. pernettya*.

x Gaulnettya W.J. Marchant = *Gaultheria* x *Pernettya*.

Gaultheria Kalm ex L.: synonymies with *Andromeda*, *Arbutus*, *Brossaea*, *Diplycosia*, *Pernettya*, *Pieris*, *Vaccinium*.

Gazania Gaertn.: *G. longiscapa* has the synonym *Gazaniopsis stenophylla*, and *G. rigens* has the synonym *Gorteria rigens*.

Genista L.: synonymies with *Chamaespartium*, *Cytisanthus*, *Cytisus*, *Echinospartum*, *Genistella*, *Pterospartum*, *Retama*, *Scorpius*, *Spartium*. In particular, *Retama monosperma* (L.) Boiss. has the synonym *Genista monosperma* (L.) Lam.

Gentiana L.: synonymies with *Crawfurdia*, *Gentianella*, *Golownina*.

Geranium L.: synonymies with *Erodium*, *Pelargonium*.

Geum L.: synonymies with *Parageum*, *Sieversia*.

Gigantochloa Kurz et Munro: synonymies with *Bambusa*.

Ginkgo biloba L.: syn.: *Salisburia adiantifolia* Sm.

Gladiolus L.: synonymies with *Homoglossum*, *Lapeirousia*.

Gladiolus x hybridus hort.: syn.: G.-Hybrids.

Glaucium flavum Crantz: syn.: *G. luteum*.

Glehnia littoralis Fr. Schmidt: syn.: *Cymopterus littoralis* A. Gray, *Phellopterus littoralis* (A. Gray) Benth.

Gloriosa L.: some botanical varieties of *G. simplex* are also described under the name *Methonica*.

Glycine max (L.) Merrill: syn.: *Dolichos soja* L., *Phaseolus max* L., *Soja hispida* Moench, *G. hispida* (Moench) Maxim.

Godetia Spach: synonymies with *Clarkia*, *Oenothera*.

Gossypium hirsutum L.: the botanical variety *punctatum* has the synonyms *G. religiosum* L., *G. punctatum* Schumach.

Grifola frondosa (Fr.) S.F. Gray: syn.: *Griphola frondosa*, *Polyporus frondosus*.

Guzmania Ruiz et Pav.: synonymies with *Caraguata*, *Massangea*, *Pitcairnia*, *Puya*, *Schlumbergia*, *Vriesea*.

Gypsophila L.: synonymies with *Banffya*, *Phrynica*.

Halesia J. Ellis ex L.: *H. corymbosa* is a synonym of *Pterostyrax corymbosa*.

Hardenbergia Benth.: synonymies with *Glycine*, *Kennedia*.

Hebe Comm. ex Juss.: syn.: Veronica L. sect. Hebe.

Hedera L.: synonymies with Acanthopanax, Kissodendron.

Helianthemum Mill.: synonymies with Fumana, Halimium.

Helianthus L.: synonymies with Harpalium, Rudbeckia.

Helianthus annuus L.: syn.: H. lenticularis Dougl.

Helichrysum Mill. corr. Pers.: synonymies with Apelexis, Gnaphalium, Leucogenes, Ozothamnus, Xeranthemum.

Hemerocallis L.: synonymies with Hosta.

Heuchera L.: synonymies with x Heucherella (= Heuchera x Tiarella), Tiarella.

Hibiscus L.: synonymies with Abelmoschus, Althaea, Thespesia.

Hibiscus cannabinus L.: syn.: H. aspera Hook. f.

Hibiscus syriacus L.: syn.: Althaea fruticosa.

Hippeastrum Herb.: synonymies with Amaryllis, Griffinia, Habranthus, Phycella, Sprekelia, Zephyranthes.

Holcus L.: H. odoratus L. is a synonym of Hierochloë odorata (L.) P. Beauv. The species of the genus Sorghum have also been classified in the genus Holcus.

Hordeum vulgare L. sensu lato: H. sativum Jess. is a synonym of H. vulgare L. The subdivisions of this species have also been made into species, as follows:

– Hordeum vulgare L. convar. distichon (L.) Alef.: syn.: H. distichon L., H. zeocriton L.

– Hordeum vulgare L. convar. vulgare: syn.: H. hexastichon L., H. polystichon Haller, H. polystichum Doell, H. tetrastichum Stokes.

Hosta Tratt.: syn.: Funkia Dumort. non Willd., Funkia Spreng. In addition, synonymies with Hemerocallis.

Houttuynia Thunb. corr. Thunb.: synonymies with Anemopsis, Gymnotheca, Polypara.

Houttuynia cordata Thunb.: syn.: Gymnotheca chinensis, Polypara cochinchinensis.

Hypericum L.: synonymies with Androsaemum, Helodes, Webbia.

Hypericum perforatum L.: syn.: H. vulgare.

Iberis L.: *I. cappadocica* is a synonym of *Ptilotrichum cappadocicum*.

Iberis amara L.: syn.: *I. coronaria* hort.

Ilex L.: *I. verticillata* (L.) Gray has the synonym *Prinos verticillatus* L.

Ilex x altaclarensis (Loud.) Dallim. = *I. aquifolium* x *I. perado*.

Impatiens L.: synonymies with *Balsamina*.

Impatiens balsamina L.: syn.: *I. coccinea*, *Balsamina hortensis* Desp.

Impatiens-Neu-Guinea-Hybriden = *I. hawkeri* x *I. linearifolia*.

Impatiens wallerana Hook. f.: syn.: *I. holstii* Engl. et Warb., *I. sultani* Hook. f.

Indigofera gerardiana (Wall.) Bak.: syn.: *I. dosua* Lindl. non D. Don.

Indigofera incarnata (Willd.) Nakai.: syn.: *I. decora* Lindl.

Ipomoea batatas (L.) Poir.: syn.: *Batatas edulis*, *Convolvulus batatas* L., *I. mammosa* Choisy.

Ipomoea tricolor Cav.: syn.: *I. violacea* L., *I. rubro-coerulea* Hook., *Pharbitis rubro-coerulea* (Hook.) Choisy, *P. tricolor*.

Iris L.: synonymies with *Dietes*, *Gynandris*, *Hermodactylus*, *Moraea*, *Pardanthus*, *Xiphion*.

Ixia L. 1762, non 1753.: synonymies with *Belamcanda*, *Lapeirousia*, *Morphixia*, *Sparaxis*, *Tritonia*, *Wurmea*.

Jasminum grandiflorum L.: syn.: *J. officinale* L. (according to the *Diccionario de Plantas Agrícolas*), *J. officinale* f. *grandiflorum* (L.) Kobuski (according to Zander). *J. grandiflorum* hort. is a synonym of *J. officinale* L. f. *affine* Royle ex Lindl. (according to Zander).

Jasminum humile L.: the botanical variety *revolutum* has also been made into a species under the names *J. revolutum* Sims, *J. reevesii*, *J. triumphans*. *J. wallichianum* Lindl. has the synonyms *J. humile* L. f. *wallichianum* (Lindl.) P.S. Green, *J. humile* L. var. *glabrum* (DC.) Kobuski, *J. pubigerum* D. Don var. *glabrum* DC.

Jasminum officinale L.: the form *affine* has the synonyms *J. affine* Royle ex Lindl., *J. grandiflorum* hort. non L. *J. grandiflorum* L. has also been considered a form of *J. officinale*.

Jasminum x stephanense Lemoine = *J. beesianum* x *J. officinale*.

Juglans L.: synonymies with *Carya*.

Juglans regia L.: syn.: *J. duclouxiana* Dode.

Juniperus L.: *J. drupacea* Labill. has the synonym *Arceuthos drupacea* (Labill.) Ant. et Kotschy. *J. ericoides* has the synonym *Callitris calcarata*.

Kalanchoë Adans.: synonymies with *Bryophyllum*, *Cotyledon*, *Kitchingia*.

Kalmia L.: *K. hirsuta* has the synonym *Kalmiella hirsuta*.

Kerria japonica (L.) DC.: syn.: *K. lutea*, *Corchorus japonica*.

Kniphofia Moench.: synonymies with *Tritonia*.

Kochia scoparia (L.) Schrad.: syn.: *Bassia scoparia* (L.) A.J. Scott.

Koeleria Pers.: synonymies with *Poa*.

Kohleria Regel.: synonymies with *Gloxinia*, *Isoloma*, *Moussonia*, *Sciadocalyx*, *Tydaea*.

Laburnum Fabr.: synonymies with *Cytisus*.

Lachenalia Jacq. f. ex Murr.: synonymies with *Phormium*, *Scilla*.

Lactuca sativa L.: The botanical varieties have also been made into species (*L. angustana* Host, *L. capitata* Gars., *L. intybacea* Jacq., *L. romana* Gars. and *L. sativa* DC.).

Laelia Lindl.: synonymies with *Bletia*, *Brassavola*, *Cattleya*, *Neocogniauxia*, *Schomburkia*.

Lagenaria siceraria (Mol.) Standl. var. hispida Hara.: for the opinion of Zander, see *Benincasa hispida* (Thunb.) Cogn. The species *L. siceraria* (Mol.) Standl. also has the synonyms *Cucurbita lagenaria* L., *C. siceraria* Mol., *L. leucantha* Rusby, *L. vulgaris* Ser.

Lantana montevidensis (Spreng.) Briq.: syn.: *L. sellowiana* Link et Otto, *L. delicatissima* hort., *Lippia montevidensis*.

Lavandula L.: synonymies according to the *Diccionario de Plantas Agrícolas* and Zander:

- *L. angustifolia* Mill., *L. spica* L. p.p. [non Cav.], *L. officinalis* Chaix, *L. vera* DC.
- *L. latifolia* (L. f.) Medik., *L. spica* L. var. *latifolia* L. f.

Lens culinaris Medik.: syn.: *L. esculenta* Moench, *Ervum lens* L.

Lepidium sativum L.: syn.: Nasturtium sativum Medik.

Leptospermum J.R. et G. Forst.: synonymies with Fabricia, Kunzea, Metrosideros.

Leptospermum scoparium J.R. et G. Forst.: syn.: L. bullatum. L. baccatum is a synonym of L. scoparium or of L. arachnoideum.

Leucospermum R. Br.: L. ellipticum has the synonym Protea formosa.

Leucothoë D. Don: synonymies with Andromeda, Eubotrys, Lyonia, Oreocallis.

Levisticum officinale W.D.J. Koch: syn.: Ligusticum paludapifolium (Lam.) Aschers., Angelica levisticum All.

Ligularia Cass.: synonymies with Erythrochaete, Farfugium, Senecio, Tussilago.

Lilium L.: synonymies with Cardiocrinum, Fritillaria, Nomocharis, Notholirion.

Limonium Mill.: syn.: Statice L. p.p., the other part being Armeria.

Linaria Mill.: the genus Linaria is frequently divided into three genera, namely: Cymbalaria, Chaenorrhinum, Linaria (in the restricted sense).

Linum usitatissimum L.: syn.: L. crepitans (Boenningh.) Dumort., L. humile Mill., L. humile Planch.

Litchi chinensis Sonn.: syn.: Nephelium litchi, Scytalia chinensis.

Lithospermum L.: synonymies with Buglossoides, Lithodora, Moltkia.

Lithospermum erythrorhizon Sieb. et Zucc.: syn.: L. officinale L. ssp. erythrorhizon (Sieb. et Zucc.) Hand.-Mazz.

Lobelia L.: synonymies with Haynalda, Isotoma, Monopsis, Pratia, Siphocampylus, Tupa.

Lobularia Desv.: Monotypic genus whose species, L. maritima (L.) Desv., has the synonyms Alyssum maritimum (L.) Lam. and Koeniga maritima.

Lolium multiflorum Lam.: syn.: L. italicum A. Braun, L. multiflorum DC.

Lophomyrtus Burret: synonymies with Myrtus.

Lotus L.: synonymies with Tetragonolobus.

Lotus corniculatus L., L. tenuis Waldst. et Kit. ex Willd.: these names are stabilized by ISTA. The Diccionario de Plantas Agrícolas considers them as synonyms.

Lotus uliginosus Schkuhr: syn.: L. pedunculatus auct. non Cav.

Luffa cylindrica M.J. Roem.: according to Zander, this species is not identical to *L. aegyptiaca* Mill. (*Momordica luffa* L., *M. cylindrica* L.). The *Diccionario de Plantas Agrícolas* and the *Dictionary of Gardening* consider them to be synonyms.

Lupinus albus L.: syn.: *L. hirsutus* Eichw. non *L. nec* Forsk., *L. sativus* Gaertn., *L. varius* Gaertn. non *L. nec* Savi and, according to Zander, *L. termis* Forsk. The *Diccionario de Plantas Agrícolas* considers the latter as a distinct species.

Lupinus angustifolius L.: syn.: *L. varius* Savi non *L.*

Lycaste Lindl.: synonymies with *Bifrenaria*, *Colax*, *Maxillaria*, *Paphinia*.

Lychnis L.: synonymies with *Agrostemma*, *Coronaria*, *Melandrium*, *Petrocoptis*, *Silene*, *Viscaria*.

Lycopersicon lycopersicum (L.) Karst, ex Farwell: other synonym: *L. esculentum* Dunal.

Lycoris Herb.: synonymies with *Amaryllis*, *Nerine*, *Ungernia*.

Lysimachia L.: synonymies with *Bacopa*, *Naumburgia*, *Steironema*.

Magnolia L.: synonymies with *Michelia*, *Talauma*.

Mahonia Nutt.: see under *Berberis*.

Mahonia aquifolium (Pursh) Nutt.: syn.: *Berberis aquifolium* Pursh. *M. pinnata* (Lag.) Fedde (*M. fascicularis* DC.) is considered to be a distinct species by the *Dictionary of Gardening* and Zander, and to be *M. aquifolium* 'Fascicularis' in the *Dictionnaire des arbres et arbustes de jardin* (A. Belot - Bordas).

Mahonia bealei (Fort.) Carr.: syn.: *Berberis japonica* var. *bealei* (Fort.) Skeels, *B. bealei* Fort. The *Dictionary of Gardening* and Zander make *M. japonica* (Thunb.) DC. (*B. japonica* (Thunb.) R. Br.) into a distinct species, the first adding that *M. japonica* is distributed under the incorrect name *M. bealei* and vice versa. The *Dictionnaire des arbres et arbustes de jardin* considers *M. bealii* to be *M. japonica* var. *bealei*.

Mahonia japonica (Thunb.) DC.: see under *Mahonia bealei* (Fort.) Carr.

Mahonia repens (Lindl.) G. Don: syn.: *Berberis repens* Lindl.

Malus Mill.: syn.: *Pyrus* L. partim. Synonymies with *Crataegus*, *Eriolobus*.

Malus domestica Borkh.: syn.: *M. sylvestris* Mill. var. *domestica* (Borkh.) Mansf., *M. pumila* var. *domestica* (Borkh.) Schneid. Most varieties cultivated in Europe belong to this species. *M. sylvestris* Mill. has the synonyms *Pyrus malus* L., *P. sylvestris* S.F. Gray non Moench, *M. communis* Poir.

Malva L.: synonymies with Callirhoë, Lavatera, Malvastrum, Sphaeralcea.

Mandevilla Lindl.: synonymies with Dipladenia.

Maranta L.: synonymies with Alpinia, Calathea, Ctenanthe, Saranthe, Stromanthe.

Matricaria recutita L.: according to ISTA, *M. chamomilla* auct., non L., is a synonym of *M. recutita* L. and of *Chamomilla recutita* (L.) Rauschert. According to Zander, the synonyms concern *M. chamomilla* L. p. p. According to the Dictionary of Gardening, *M. chamomilla* is a synonym of *Anthemis nobilis*.

Matthiola incana (L.) R. Br.: syn.: *M. annua*.

Medicago hispida Gaertn.: syn.: *M. denticulata* Boiss.

Medicago lupulina L.: syn.: *M. lupulina* Scop.

Medicago sativa L.: according to Zander, this species comprises the following subspecies:

- ssp. *caerulea* (Less. ex Ledeb.) Schmalh. (*M. caerulea* Less. ex Ledeb.)
- ssp. *falcata* (L.) Arcang. (*M. falcata* L.)
- ssp. *falcata* x ssp. *sativa* (*M. x varia* Martyn)
- ssp. *sativa*.

Medicago x varia Martyn: see under *Medicago sativa* L.

Mentha L.: *M. requienii* Benth. has the synonyms *Menthella requienii* (Benth.) Pér., *Menthella conica*. Synonymies with *Pogostemon* (*M. cablin* Blanco and *P. cablin* (Blanco) Benth., and *M. perilloides* L. and *P. perilloides* (L.) Mansf.).

Mentha x piperita L. = *M. aquatica* x *M. spicata*.

Meryta J.R. et G. Forst.: synonymies with *Aralia*, *Botryodendrum*, *Oreopanax*.

Meryta sinclairii (Hook. f.) Seem.: syn.: *Botryodendrum sinclairii*.

Metasequoia glyptostroboides Hu et Cheng: syn.: *M. disticha* (Heer) Miki, *Sequoia glyptostroboides* (Hu et Cheng) Weide.

Metrosideros diffusa Forst. f.: syn.: *Melaleuca diffusa* G. Forst., *Metrosideros hypericifolia* A. Cunn. non Salisb.

Metrosideros excelsa Soland. ex Gaertn.: syn.: *M. tomentosa* A. Rich.

Metrosideros perforata (Forst. et Forst. f.) A. Rich.: syn.: *Leptospermum perforatum* J.R. et G. Forst., *M. scandens* Soland. ex Gaertn.

Metrosideros robusta A. Cunn.: syn.: *M. florida* Hook. f. non (G. Forst.) Sm.

Microsorium Link = *Microsorium* Link corr. Link; synonymies with *Polypodium*.

Miltonia Lindl.: synonymies with *Macrochilus*, *Odontoglossum*, *Oncidium*.

Mimetes spec.: see under *Orothamnus spec.*

Momordica charantia L.: syn.: *M. muricata* Willd. (according to Zander) and *M. balsamina* Blanco, *M. balsamina* Descourt. (according to the *Diccionario de Plantas Agrícolas*). According to the *Dictionary of Gardening*, the botanical varieties have also been made into species (*M. chinensis* and *M. muricata*) and *M. marteniensis* may also belong to the species in question. *M. charantia* Descourt. is a synonym of *M. balsamina* L.

Monstera Adans.: synonymies with *Macgravia*, *Philodendron*, *Raphiodophora*. The species most commonly known as *Philodendron* is *Monstera deliciosa* Liebm. (*Philodendron pertusum* Kunth et Bouché).

Moraceae: this family includes sometimes the *Cannabaceae*.

Morus L.: *M. papyrifera* L. is a synonym of *Broussonetia papyrifera* (L.) Vent. (name stabilized by ISTA) and *M. tinctoria* L. of *Chlorophora tinctoria* (L.) Gaud.

Musa L.: synonymies with *Ensete*.

Musa acuminata Colla: syn.: *Musa cavendishii* Lamb., *M. malaccensis* Ridl.—according to Zander—, *M. sinensis*—according to the *Dictionary of Gardening*—and *M. x paradisiaca* L. (name stabilized by ISTA), *M. x sapientium* L.—according to the *Diccionario of Plantas Agrícolas*.

Myosotis alpestris F.W. Schmidt: *M. alpestris* hort. is a synonym of *M. sylvatica* Ehrh. ex Hoffm. and *M. oblongata* Link.

Myrica gale L.: syn.: *Gale palustris* (Lam.) Chev.

Myrica rubra Sieb. et Zucc.: syn.: *M. nagi* DC., non Thunb., *Nageia japonica* Gaertn., *Morella rubra* Lour.

Narcissus L.: synonymies with *Corbularia*, *Hermione*.

Nelumbo nucifera Gaertn.: syn.: *Nelumbium nelumbo* (L.) Druce, *N. speciosum* Willd.

Neoregelia L.B. Sm.: synonymies with *Aregelia* and *Nidularium*, names under which the species of this genus are described in the *Dictionary of Gardening*, which also records synonymies with *Bromelia* and *Karatas*.

Nepeta L.: synonymies with *Dracocephalum*, *Glechoma*, *Hyptis*, *Micromeria*, *Thymus*.

Nephrolepis Schott: *N. acutifolia* has the synonyms *Isoloma lanuginosum*, *Lindsaya lanuginosa*.

Nerine Herb.: synonymies with *Amaryllis*, *Lycoris*.

Nopalxochia Britt. et Rose: synonymies with *Epiphyllum*, *Phyllocactus*.

Nothofagus Bl.: synonymies with *Fagus*.

Nymphaea L.: synonymies with *Nuphar*.

Odontoglossum H.B.K.: This genus includes *Mesospinidium*. Synonymies with *Cochloda*, *Miltonia*, *Oncidium*, *Zygopetalum*.

Oenanthe javanica (Bl.) DC.: syn.: *O. stolonifera* Wall.

Oenothera L.: the subgenera have also been made into genera (*Anogra*, *Calylophis*, *Chylismia*, *Hartmannia*, *Kneiffia*, *Lavauxia*, *Megapterium*, *Pachylophus*, *Raimannia*, *Sphaerostigma*, *Taraxia*). Other synonymies with *Godetia*, *Meriolix*, *Onagra*, *Xylopleurum*.

Olea europaea L.: the fruiting subspecies *europaea* has also been made into a species under the name *O. sativa* Hoffmgg. et Link.

Olearia x haastii Hook. f. = *O. avicenniifolia* x *O. moschata*.

Oncidium Sw.: this genus includes *Cyrtochilum* and *Palumbina*. Synonymies with *Cymbidium*, *Epidendrum*, *Leochilus*, *Lophiaris*, *Miltonia*, *Odontoglossum*, *Waluwewa*.

Onobrychis viciifolia Scop.: syn.: *Hedysarum onobrychis* L., *O. sativa* Lam.

Ophiopogon Ker-Gawl.: *O. japonicus* (L. f.) Ker-Gawl. has the synonym *Convallaria japonica* L. f. Further synonymies with *Liriope*.

Oreopanax Decne. et Planch.: synonymies with *Aralia*, *Meryta*.

Origanum L.: synonymies with *Amaracus*, *Majorana*.

Origanum majorana L.: syn.: *Majorana hortensis* Moench.

Ornithogalum L.: *O. vittatum* has also been described as *Albuca vittata*.

Ornithopus sativus Brot. syn.: *O. sativus* Link. *O. sativus* Willk. is a synonym of *O. isthmocarpus* Coss.

Orothamnus spec.: monotypic genus, the species of which (*O. zeyheri*) has the synonym *Mimetes zeyheri*.

Osmanthus Lour.: synonymies with *Olea*, *Siphonosmanthus*.

Osmanthus heterophyllus (G. Don) P.S. Green: synonym other than those indicated in the main table: *Olea aquifolium* Sieb. et Zucc.

Osteospermum L.: synonymies with *Dimorphotheca*.

Oxalis L.: *O. sensitiva* is a synonym of *Biophytum sensitivum* (L.) DC. (name stabilized by ISTA).

Oxypetalum caeruleum (D. Don) Decne.: syn.: *Tweedia caerulea* D. Don.

Paeonia albiflora Pall.: syn.: *P. lactiflora* Pall., *P. chinensis* hort., *P. sinensis* (Sims) hort., *P. edulis sinensis*.

Paeonia officinalis L.: according to Zander, this species includes the subspecies *humilis* (Retz.) Cull. et Heyw., which has the synonyms *P. humilis* Retz., *P. peregrina* var. *humilis* (Retz.) Huth. In the Dictionary of Gardening, *P. banatica*, *P. clusii*, *P. coriacea*, *P. peregrina* are classified as species and it is stated that they are also considered subdivisions of *P. officinalis*.

Paeonia suffruticosa Andr.: syn.: *P. arborea* Donn, *P. moutan* Sims.

Panax ginseng C.A. Mey.: syn.: *P. schingseng* Nees.

Panicum L.: synonymies with *Beckmannia*, *Brachiara*, *Cynodon*, *Digitaria*, *Echinochloa*, *Oplismenus*, *Pennisetum*, *Setaria*, *Sorghum*, *Trichachne*, *Tricholaena*.

Paphiopedilum Pfitz.: syn.: *Cypripedium* hort. non L.

Paranomus spec.: synonymies with *Nivenia*, *Protea*.

Parrotia C.A. Mey.: *P. jacquemontiana* Decne. has the synonym *Parrotiopsis jacquemontiana* (Decne.) Rehd.

Parthenocissus Planch.: synonymies with *Ampelopsis*, *Cissus*, *Vitis*.

Parthenocissus inserta (Kerner) Fritsch: syn.: *P. vitacea* (Knerr) Hitchc. var. *typica* Rehd., *P. quinquefolia* var. *vitacea* (Knerr) L.H. Bailey.

Passiflora edulis Sims: syn.: *P. laurifolia* F. Vill.

Pastinaca sativa L.: syn.: *Peucedanum sativum*.

Pelargonium L'Hér. ex Ait.: synonymies with *Geranium*.

Pelargonium-Grandiflorum-Hybridae: syn.: *P. grandiflorum* hort. non Willd.

Pelargonium-Zonale-Hybridae: further synonym: *P. zonale* hort. non (L.) L'Hér. ex Ait.

Pennisetum glaucum (L.) R. Br. emend. Stuntz: syn.: *P. typhoides* (Burm. f.) Stapf et C.E. Hubb., *Setaria glauca* (L.) P. Beauv., *P. typhoideum* L.C. Rich., *P. americanum* (L.) Leeke, *P. americanum* (L.) K. Schum. ssp. *typhoideum* (L.C. Rich.) Maire et Zeiller. The Diccionario de Plantas Agrícolas cites *P. typhoides* (Burm. f.) L.C. Rich. with the synonyms *Alopecurus typhoides* Burm. f., *Panicum glaucum* L., *Penicillaria spicata* Beauv., *Pennisetum spicatum* Roem. et Schult., *Pennisetum typhoideum* L.

Penstemon Schmidel: synonymies with *Chelone*.

Pentas lanceolata (Forssk.) K. Schum.: syn.: *P. carnea* Benth.

Perilla L.: *P. frutescens* (L.) Britt. has the synonyms *Ocimum frutescens* L., *P. ocymoides* L., *P. arguta* Benth. The subdivision 'Nankinensis' has the synonyms var. *crispa* (Thunb.) Decne. ex L.H. Bailey, *Ocimum crispum* Thunb., *P. nankinensis* (Lour.) Decne.

Pernettya Gaudich.: synonymies with *Arbutus*, *Gaultheria*.

Persea americana Mill.: syn.: *P. gratissima* Gaertn. f.

Petasites japonicus (Sieb. et Zucc.) Fr. Schmidt: syn.: *Nardosmia japonica*.

Petroselinum crispum (Mill.) Nym. ex A.W. Hill: syn.: *Apium crispum* Mill., *A. petroselinum* L., *P. hortense* auct. non Hoffm., *P. sativum* Hoffm., *Carum petroselinum*.

Petroselinum crispum (Mill.) Nym. ex A.W. Hill convar. radicosum (Alef.) Danert: syn.: *P. crispum* (Mill.) Nym. ex A.W. Hill ssp. *tuberosum* (Bernh. ex Rchb.) Soo., *Apium latifolium* Mill., *P. sativum* var. *latifolium* Alef.

Petunia x hybrida Vilm. = *P. axillaris* x *P. violacea*. Syn.: *P.-Hybrids*, *P. x atkinsiana* D. Don.

Phalaenopsis Bl.: synonymies with *Doritis*, *Kingiella*, *Polychilus*, *Sarcochilus*, *Strauropsis*, *Trichoglottis*.

Phalaris L.: synonymies with *Beckmannia*, *Vetiveria*.

Phalaris aquatica L.: syn.: *P. tuberosa* L., incl. *P. stenoptera* Hackel (according to ISTA).

Phalaris arundinacea L.: syn.: *Typhoides arundinacea* (L.) Moench, *Baldingera arundinacea* (L.) Dumort., *Digraphis arundinacea*.

Pharbitis nil Chois.: according to Zander, this species has the synonyms *Ipomoea nil* (L.) Roth, *Convolvulus nil* L. and includes *Ipomoea imperialis* hort. (japanische Kaiserwinde). According to the Dictionary of Gardening, Japanese Morning Glory is species *P. x imperialis*,

probably a cross between *P. hederacea* and *P. tricolor*. *P. hederacea* has the synonyms *Convolvulus nil*, *P. albomarginata*, *Ipomoea limbata*. Concerning *P. tricolor*, see under *Ipomoea tricolor*.

Pharbitis purpurea (Roth) Bojer: syn.: *Ipomoea purpurea* (L.) Roth, *Convolvulus purpureus* L., *C. major*.

Phaseolus spec.: synonymies with *Vigna*.

Phaseolus angularis (Willd.) W. Wight: syn.: *Vigna angularis* (Willd.) Ohwi et Ohashi, *Dolichos angularis* Willd.

Phaseolus coccineus L.: syn.: *P. multiflorus* Lam., *P. multiflorus* Willd.

Philodendron Schott corr. Schott: synonymies with *Anthurium*, *Caladium*, *Monstera*. In particular, *Monstera deliciosa* Liebm. (name stabilized by ISTA) has the synonym *P. pertusum* Kunth et Bouché and is known by the name *Philodendron*.

Phleum bertolonii DC.: further synonym: *P. bulbosum* auct. non L.

Phormium Forst. et G. Forst.: synonymies with *Lachenalia*.

Photinia Lindl.: synonymies with *Crataegus*, *Eriobotrya*, *Heteromeles*. *Eriobotrya japonica* (Thunb.) Lindl. has notably the synonym *P. japonica*.

Phyllostachys Sieb. et Zucc.: synonymies with *Bambusa*, *Chimonobambusa*, *Shibataea*, *Semiarundinaria*.

Physalis ixocarpa Brot. ex Hornem.: syn.: *P. edulis* hort. non Sims.

Physocarpus opulifolius (L.) Maxim.: syn.: *Spiraea opulifolia* L.

Physostegia virginiana (L.) Benth.: syn.: *Dracocephalum variegatum*, *D. virginianum*.

Picea A. Dietr.: the nomenclature is very complex as there have been confusions with *Abies*, *Pinus* and *Tsuga*. In addition, certain botanists have identified 40 species, others having reduced some of them to synonyms.

Picea glehnii (F. Schmidt) Mast.: syn.: *Abies glehnii*.

Picea jezoensis (Sieb. et Zucc.) Carr.: syn.: *P. ajanensis* Fisch. ex Carr.; the botanical variety *hondoensis* (Mayr) Rehd. is also named *P. hondoensis* Mayr.

Pieris D. Don: synonymies with *Andromeda*, *Arcterica*, *Lyonia*, *Portuna*.

Pieris japonica (Thunb.) D. Don ex G. Don: syn.: *Andromeda japonica* Thunb.

Pinellia ternata (Thunb.) Breit.: syn.: *P. tubifera* Ten., *Arum ternatum* Thunb.

Pinus spec.: synonymies with *Picea*.

Pinus thunbergii Parl.: syn.: *P. thunbergiana* Franco.

Pistacia vera L.: syn.: *P. terebinthus* Mill. non L.

Pisum sativum L.: in its modern sense, *P. sativum* L. includes *P. arvense*. Synonymy with *P. elatius* Stev., *P. humile* Boiss.

Platycodon grandiflorus (Jacq.) A. DC.: syn.: *Campanula grandiflora* Jacq., *Wahlenbergia grandiflora* (Jacq.) Schrad. Botanical varieties thereof have also been given species names (in particular *P. autumnale* and *P. chinensis*).

Plumbago L.: synonymies with *Ceratostigma*.

Poa L.: synonymies with *Dactylis*, *Eragrostis*, *Festuca*, *Glyceria*, *Koeleria*, *Puccinellia*.

Podocarpus macrophyllus (Thunb.) D. Don: syn.: *P. chinensis* (Roxb.) Wall. ex Endl.

Polemonium L.: *P. brandegeei* has also been named *Gilia brandegeei*.

Polygonatum Mill.: syn.: *Axillaria*, *Evallaria*. Synonymies with *Convallaria*.

Polygonum L.: synonymies with *Bilderdykia*, *Coccoloba*, *Fagopyrum*, *Muehlenbeckia*, *Reynoutria*.

Polymnia sonchifolia Poepp. et Endl.: syn.: *P. edulis* Wedd.

Poncirus Raf.: monotypic genus (*P. trifoliata* (L.) Raf.) which has the synonyms *Citrus trifoliata* L., *Aegle sepiaria*, *Limonia trifoliata*.

Potentilla L.: synonymies with *Argentina*, *Comarum*, *Dasyphora*, *Drymocallis*, *Sibbaldiopsis*.

Potentilla fruticosa L.: syn.: *Dasyphora fruticosa*. As the main table shows, certain types of cinquefoil are either considered to be subspecies of *P. fruticosa* L., or made into distinct species. Differences in the scope of application of protection result therefrom.

Primula vulgaris Huds.: syn.: *P. acaulis* (L.) Hill.

Protea spec.: synonymies with *Aulax*, *Leucospermum*, *Paranomus*, *Serruria*.

Prunus L.: this genus has been made into several genera by some botanists. The nomenclature most encountered in practice is the following:

- *Amygdalus* (almond)
- *Armeniaca* (apricot)
- *Cerasus* (cherry)
- *Persica* (peach)

– Prunus (plum).

As far as the species are concerned, the synonymies are given below. Certain States have defined the protected species by the indication of the genus Prunus L. followed by the common name of the species, in particular to avoid problems with nomenclature.

Prunus amygdalus Bartock: syn.: Amygdalus communis L., P. communis (L.) Arcang. non Huds.

Prunus armeniaca L.: syn.: Armeniaca vulgaris Lam.

Prunus avium (L.) L.: syn.: Cerasus avium (L.) Moench.

Prunus cerasifera Ehrh.: syn.: P. myrobalana Poit. et Turp., P. myrobalanus (L.) Loisel. The group of ornamental varieties of the Atropurpurea type is also known under the name P. pissardii Carr. In the States which rely mainly on common names, this species may or may not be protected depending on the interpretation of “plum.”

Prunus cerasus L.: syn.: Cerasus vulgaris Mill. The subspecies and botanical varieties have also been made into species (P. acida K. Koch non Ehrh.; P. austera (L.) Ehrh., Cerasus austera (L.) Borkh.; Cerasus marasca Host, P. marasca (Host) Rechb.).

Prunus domestica L., Prunus insititia L.: classification of plums is extremely confused, as most botanists who have dealt with the genus Prunus have adopted their own system. On the species level, the most controversial question is whether P. insititia constitutes a species or should be considered a subspecies of P. domestica. The latter is at present the most commonly recognized, but the former can still be found. In addition, there is controversy over the allocation of the various types of plums to the taxonomic entities that have been defined. For instance, mirabelle belongs to the entity (subspecies or species) insititia according to certain authors and to the entity syriaca according to others. The various types are not always used in the same manner from one country to another. For example, damson is used solely as a root-stock in France, whereas in the United Kingdom it is also used as a fruiting species for pies, stewing and bottling. Finally, partly as a consequence of the different uses, types identified by a common name in one country may not have a common name in others; thus for example, there is no equivalent of the English name bullace in French. All these factors may influence the scope of application of protection.

Prunus fruticosa Pall.: syn.: Cerasus fruticosa (Pall.) Woron, C. sylvestris. In the States which rely mainly on common names, this species may be protected or not depending on the interpretation of “cherry.”

Prunus glandulosa Thunb.: syn.: P. sinensis.

Prunus insititia L.: see under P. domestica L.

Prunus laurocerasus L.: syn.: Laurocerasus officinalis M.J. Roem., Cerasus laurocerasus (L.) Loisel.

Prunus lusitanica L.: syn.: *Cerasus lusitanica* (L.) Loisel.

Prunus persica (L.) Batsch: syn.: *Amygdalus persica* L., *A. pumila* Lour. non L., *Persica vulgaris*.

Prunus prostrata Labill.: syn.: *Cerasus prostrata*.

Prunus salicina Lindl.: syn.: *P. triflora*. In the States which rely mainly on common names, this species may or may not be protected depending on the interpretation of "plum."

Prunus tenella Batsch: syn.: *P. nana* (L.) Stokes non Du Roi, *Amygdalus nana* L.

Prunus triloba Lindl.: syn.: *Amygdalopsis lindleyi*.

Pseudocydonia sinensis Schneid.: syn.: *Chaenomeles sinensis*, *Cydonia sinensis* (Dum.-Cours.) Schneid.

Pseudotsuga Carr.: synonymies with *Abies*.

Psidium guajava L.: syn.: *P. pyriferum* L., *P. pomiferum* L.

Psophocarpus tetragonolobus (L.) DC.: syn.: *Dolichos tetragonolobus* Stickm.

Pulmonaria L.: *P. virginica* L. is a synonym of *Mertensia virginica* (L.) Pers.

Pyracantha M.J. Roem.: synonymies with *Cotoneaster*, *Crataegus*.

Pyrus L.: synonymies with *Amelanchier*, *Aronia*, *Chaenomeles*, *Cydonia*, *Malus*, *Mespilus*, *Sorbus*.

Pyrus communis L.: syn.: *P. domestica* Medik. non (L.) Ehrh. (according to Zander). The *Diccionario de Plantas Agrícolas* considers the latter as a separate species, and *P. communis* Smith as a synonym of *Sorbus domestica* L.

Quamoclit Mill.: synonymies with *Calboa*, *Ipomoea*, *Mina*.

Quercus L.: synonymies with *Lithocarpus*.

Quercus robur L.: syn.: *Qu. pedunculata* Ehrh.

Radermachera Zoll. et Mor.: synonymies with *Oroxylum*, *Stereospermum*.

Ranunculus L.: synonymies with *Batrachium*, *Callianthemum*, *Ceratocephalus*, *Ficaria*.

Ranunculus asiaticus L.: syn.: *R. hortensis* Pers., *R. africanus* hort.

Rehmannia glutinosa (Gaertn.) Libosch.: syn.: *R. sinensis* (Buc'hoz) Libosch. ex Fisch. et Mey.

Renanthera Lour.: synonymies with *Aërides*, *Arachnis*, *Vanda*, *Vandopsis*.

Retama monosperma (L.) Boiss.: syn.: *Genista monosperma* (L.) Lam., *Lygos monosperma* (L.) Heyw., *Spartium monospermum*.

Rhamnus L.: synonymies with *Frangula*, *Oreohertzogia*, *Ziziphus*.

Rheum rhabarbarum L.: syn.: *R. undulatum* L. *R. undulatum* Pall. is a synonym of *R. rhaponticum* L.

Rhipsalidopsis Britt. et Rose: see under *Epiphyllopsis*...

Rhipsalidopsis rosea (Lagerh.) Britt. et Rose: syn.: *Rhipsalis rosea* Lagerh.

Rhododendron L.: in its modern sense, this genus includes *Azalea* and *Rhodora*.

Rhodohypoxis baurii (Bak.) Nel: syn.: *Hypoxis platypetala*.

Rhus L.: synonymies with *Cotinus*, *Toxidendron*.

Rhynchostylis Bl.: synonymies with *Aërides*, *Saccolabium*.

Ribes niveum Lindl.: see under *R. sylvestre*. Syn.: *R. gracile*.

Ribes sylvestre (Lam.) Mert. et W. Koch: syn.: *R. rubrum* L. p.p. et auct. mult., *R. vulgare* Lam. p.p., *R. sativum* (Rchb.) Syme, *R. rubrum* ssp. *vulgare* (Lam.) Domin (according to Zander). Zander also maintains that most cultivated varieties derive from this species. According to the Dictionary of Gardening, the main ancestor of red and white currants is *R. sativum*, often wrongly called *R. rubrum*. Varieties of *R. rubrum* are cultivated in Scandinavia (northern red currant). The Diccionario de Plantas Agrícolas and Zander refer to this species under the name *R. spicatum* Robs. emend. Wilmoth (*R. rubrum* L. p.p., *R. vulgare* Lam. p.p., *R. rubrum* (L.) O. Schwarz, *R. sylvestre* Syme).

Ribes uva-crispa L.: according to Zander, the majority of cultivated varieties belong to the botanical variety *sativum* DC., which has the synonym *R. grossularia* L. The Diccionario de Plantas Agrícolas gives *R. uva-crispa* L. and *R. grossularia* L. as synonyms (and *R. grossularia* Wall. as a synonym of *R. alpestre* Wall.).

Robinia L.: synonymies with *Tephrosia*, *Sesbania*, *Glicinidia*.

Rohdea japonica (Thunb.) Roth: syn.: *Orontium japonicum*.

Rubus fruticosus L.: according to the Dictionary of Gardening, this term is a broad one and covers the blackberries. They have been divided by certain botanists into more than 100 species. The name does not appear in Zander.

Rubus idaeus L.: according to the Dictionary of Gardening, *R. idaeus* (wild raspberry) is the ancestor of cultivated raspberries. *R. strigosus* is the American counterpart of *R. idaeus* and has the synonym *R. idaeus* var. *strigosus*.

Rudbeckia L.: synonymies with *Centrocارpha*, *Dracopis*, *Echinacea*, *Helianthus*, *Lepachys*.

Rudbeckia hirta L.: the name stabilized by ISTA includes *R. bicolor* Nutt.

Rumohra adiantiformis (G. Forst.) Ching: syn.: *Arachniodes adiantiformis* (G. Forst.) Tindale.

Ruscus L.: synonymies with *Danaë*, *Semele*.

Ruta L.: synonymies with *Haplophyllum*.

Saccharum L.: synonymies with *Gynerium*, *Rhynchelytrum*.

Salvia L.: synonymies with *Audibertia*, *Sclarea*.

Salvia officinalis L.: the sub-species *lavandulifolia* (Vahl) Gams has also been made into a species (*S. lavandulifolia* Vahl).

Sanguisorba L.: synonymies with *Pimpinella*, *Poterium*, *Sarcopoterium*.

Sansevieria Thunb.: *S. hyacinthoides* (L.) Druce has the synonym *Aloe hyacinthoides* L.

Sapium sebiferum (L.) Roxb.: syn.: *Croton sebiferum* L.

Saponaria L.: *S. pumila* has the synonym *Silene pumila*. *S. vaccaria* L. is a synonym of *Vaccaria hispanica* (Mill.) Rauschert (name stabilized by ISTA—further synonyms: *V. pyramidata* Medik., *V. vulgaris* Host, *V. segetalis* Garcke, *V. grandiflora* (Fisch.) Jaub. et Spach).

Saxifraga L.: synonymies with *Aceriphyllum*, *Bergenia*, *Boykinia*, *Chondrosa*, *Ciliaria*, *Leptasea*, *Peltiphyllum*, *Zahlbruckneri*.

Scabiosa L.: synonymies with *Cephalaria*, *Knautia*, *Pterocephalus*, *Succisa*.

Scaevola spp.: synonymies with *Lechenaultia*.

Schefflera J.R. et G. Forst.: synonymies with *Brassaia*, *Heptapleurum*, *Aralia*.

Schlumbergera Lem.: see under Epiphyllopsis...

Scilla L.: synonymies with Barnardia, Dipcadi, Drimia, Endymion, Hyacinthoides, Hyacinthus, Lachenalia, Ledebouria, Urginea.

Scindapsus Schott: synonymies with Pothos, Raphidophora.

Sedum L.: synonymies with Byrnesia, Cotyledon, Crassula, Cremnophila, Echeveria, Gormanina, Graptopetalum, Monanthes, Orostachys, Pistorinia, Rhodiola, Rosularia, Sinocrassula, Umbilicus.

Selaginella P. Beauv.: *S. cuspidata* var. *elongata* has the synonym *Lycopodium cordifolium*.

Senecio L.: synonymies with Brachyglottis, Cacasua, Cineraria, Emilia, Kleinia, Ligularia, Mikania, Notonia.

Senecio cruentus (Masson ex L'Hér.) DC.: syn.: *Cineraria cruenta* DC.

Serruria spec.: synonymies with Protea.

Setaria sphacelata (Schum.) Stapf. et C.E. Hubb.: syn.: *Panicum sphacelatum* Schum.

Sidalcea A. Gray: *S. malvaeflora* has the synonyms *Callirhoë spicata*, *Sida malvaeflora*.

Silene L.: synonymies with Agrostemma, Cucubalus, Eudianthe, Heliosperma, Lychnis, Melandrium, Saponaria, Viscaria.

Silybum marianum (L.) Gaertn.: syn.: *Carduus marianus* L.

Simmondsia chinensis (Link) Schneid.: syn.: *S. californica* (Link) Nutt.

Sinningia Nees: synonymies with Gloxinia, Rosanowia, Stenogaster, Tapeionites.

Sinningia x hybrida hort.: further synonym: *Gloxinia speciosa* Lodd.

Sisyrinchium L.: synonymies with Eleutherine, Marica, Olsynium, Solenomelus.

Solanum L.: synonymies with Cyphomandra, Lycopersicon.

Solanum melongena L.: syn.: *S. aethiopicum* Thunb., *S. incanum* L.

Solanum tuberosum L.: syn.: *S. andigenum* Juz. et Buk.

Solidago L.: *S. graminifolia* has the synonym *Euthamia graminifolia* and its botanical variety *nuttallii* has the synonym *E. nuttallii*. *S. rigida* has the synonym *Oligoneuron rigidum*.

Sophora L.: synonymies with Edwardsia.

Sophronitis Lindl.: *S. cernua* has the synonym *Sophronia cernua*. *S. violacea* Lindl. has the synonyms *Sophronitella violacea* (Lindl.) Schlechter, *Cattleya violacea* (Lindl.) Beer non Rolfe nec hort.

Sorbaria (Ser. ex DC.) A. Br.: synonymies with *Spiraea*.

Sorbus L.: synonymies with *Aronia*, *Crataegus*, *Micromeles*, *Pyrus*.

Sorbus aria L. Crantz: syn.: *Pyrus aria* (L.) Ehrh.

Sorghum Moench: synonymies with *Andropogon*, *Holcus*, *Millium*, *Panicum*.

Sorghum bicolor (L.) Moench: main synonym: *S. vulgare* Pers. According to the *Diccionario de Plantas Agrícolas*, this species contains all annual cultivated types, whereas Zander distinguishes several species.

Spartium L.: *S. junceum* L. (name stabilized by ISTA) has the synonyms *Genista juncea*, *G. odorata*. *S. scoparium* L. is a synonym of *Sarothamnus scoparius* (L.) Wimm.

Spathiphyllum Schott: synonymies with *Anthurium*, *Pothos*, *Rhodospatha*.

Spiraea L.: synonymies with *Aruncus*, *Astilbe*, *Lhamaebatiaria*, *Filipendula*, *Gillenia*, *Holodiscus*, *Luetkea*, *Petrophytum*, *Physocarpus*, *Sibiraea*, *Sorbaria*.

Stachys L.: synonymies with *Betonica*.

Stevia rebaudiana (Bertoni) Hemsl.: syn.: *Eupatorium rebaudianum*.

Stewartia L.: syn.: *Stuartia* L'Hér. *S. ovata* has also the synonym *Malacodendron pentagynum*.

Stranvaesia Lindl.: *S. davidiana* has also been described as *Photinia davidiana*.

Swertia L.: synonymies with *Ophelia*.

Symphoricarpos Duham.: *S. rivularis* has also been described as *Symphoria racemosa*.

Syringa L.: synonymies with *Ligustrina*.

Syzygium Gaertn.: according to the *Dictionary of Gardening* this genus is included in the genus *Eugenia*. According to Zander there are synonymies with *Caryophyllus*, *Eugenia*, *Jambosa*, *Myrtus*.

Tagetes tenuifolia Cav.: syn.: *T. signata* Bartl.

Tamarix L.: *T. germanica* L. is a synonym of *Myricaria germanica* (L.) Desv.

Tanacetum parthenium (L.) Schultz Bip.: see under *Chrysanthemum parthenium*.

Tecoma Juss.: synonymies with *Bignonia*, *Campsidium*, *Campsis*, *Pandorea*, *Podranea*, *Stenolobium*, *Tecomaria*, *Tecomella*.

Teucrium chamaedrys L.: *T. chamaedrys hort.* is perhaps a synonym of *T. massiliense L.*

Teucrium fruticans L.: syn.: *T. latifolium*.

Thalictrum L.: synonymies with *Anemonella*, *Isopyrum*.

Thea sinensis L.: syn.: *Camellia sinensis (L.) O. Kuntze* (name stabilized by ISTA), *T. viridis L.*, *T. bohea L.*, *C. thea Link*, *C. theifera Griff.*

Thuja L.: synonymies with *Biota*, *Platyclusus*, *Tetraclinis*, *Thujopsis*.

Thuja orientalis L.: syn.: *Biota orientalis (L.) Endl.*, *Platyclusus orientalis (L.) Franco*, *P. stricta Spach*.

Tiarella L.: *T. menziesii* is a synonym of *Tolmiea menziesii*.

Tibouchina Aubl.: synonymies with *Lasiandra*, *Pleroma*, *Pleionema*, *Rhexia*.

Tillandsia L.: synonymies with *Allardtia*, *Anoplophytum*, *Billbergia*, *Catopsis*, *Cryptanthus*, *Phytarrhiza*, *Platystachis*, *Pourretia*, *Streptocalyx*, *Vriesea*, *Wallisia*.

Torenia L.: *T. auriculifolia* has the synonym *Graterostigma pumilum*.

Tradescantia L.: synonymies with *Aneilema*, *Commelina*, *Dichorisandra*, *Gibasis*, *Hadrodemas*, *Phyodina*, *Pyrreima*, *Rhoeo*, *Spironema*, *Zebrina*.

Trifolium repens L.: syn.: *T. nigrescens Schur [non Viv.]*.

Trifolium resupinatum L.: *T. resupinatum Less.* is a synonym of *T. fragiferum L.*

Trisetum flavescens (L.) P. Beauv.: syn.: *Avena flavescens L.*

Triticum L.: synonymies with *Agropyron*.

Triticum aestivum L. emend. Fiori et Paol.: syn.: *T. hybernum L.*, *T. sativum Lam.*, *T. vulgare Vill.*, *T. cereale Schrank* (according to Zander). In the *Diccionario de Plantas Agrícolas*, classification is based on *T. aestivum (L.) Thell.* (syn.: *T. aestivum L.*), which groups units that are made into species in Zander (in particular *T. macha Dekapr. et Menabde*, *T. spelta L.*, *T. sphaerococcum Perciv.*).

Triticum durum Desf.: syn.: *T. turgidum (L.) Thell. ssp. turgidum convar. durum (Desf.) Mac Kay*.

Triticum spelta L.: syn.: *T. aestivum* (L.) Thell. ssp. *spelta* (L.) Thell.

Tritonia Ker-Gawl.: synonymies with *Acidanthera*, *Crocoshmia*, *Dichone*, *Gladiolus*, *Ixia*, *Montbretia*.

Trollius L.: *T. lilacinus* has the synonym *Hegemone lilacina*.

Vaccinium L.: synonymies with *Agapetes*, *Andromeda*, *Batodendron*, *Cyanococcus*, *Epigynium*, *Herpothamnus*, *Hugeria*, *Oxycoccoides*, *Oxycoccus*, *Polycodium*, *Thibaudia*, *Vitis-idaea*.

Vaccinium macrocarpon Ait.: syn.: *Oxycoccus macrocarpus* (Ait.) Pursh.

Valerianella locusta (L.) Laterrade: syn.: *V. olitoria* (L.) Poll.

Vanda Jones: synonymies with *Acampe*, *Aërides*, *Anota*, *Arachnanthe*, *Esmeralda*, *Euanthe*, *Luisia*, *Phalaenopsis*, *Renanthera*, *Rhynchostylis*, *Saccolabium*, *Sarcanthus*, *Stauroopsis*, *Vandopsis*.

Veratrum L.: *V. viride* has also been described under the name *Helonias viride*.

Verbena L.: synonymies with *Junellia*, *Lippia*.

Verbena x hybrida Voss: syn.: *V.-Hybrids*, *V. hortensis*.

Veronica L.: the genera *Hebe*, *Paederota*, *Veronicastrum* are either included in *Veronica*, or separated.

Viburnum L.: *V. rigidum* has the synonym *Tinus rugosus*.

Vicia faba L.: syn.: *Faba bona* Medik., *F. vulgaris* Moench.

Vicia sativa L.: the subspecies *nigra* (L.) Ehrh. (*angustifolia* (L.) Aschers. et Graebn.) also has the synonym *V. angustifolia* L.

Vicia villosa Roth: according to ISTA, this species includes *V. dasycarpa* Ten. The *Diccionario de Plantas Agrícolas* considers them as synonyms.

Vigna unguiculata (L.) Walp.: synonym other than that indicated in the main table: *Dolichos biflorus* L. According to the *Diccionario de Plantas Agrícolas* and Zander, the subspecies have the following synonyms:

– ssp. *cylindrica* (L.) Van Eseltine ex Verdc.: *V. catjang* (Burm. f.) Walp., *V. cylindrica* (L.) Skeels, *Phaseolus cylindricus* Stickm.;

– ssp. *sesquipedalis* (L.) Verdc.: *V. sesquipedalis* (L.) Fruwirth, *Dolichos sesquipedalis*;

– ssp. unguiculata: Dolichos sinensis Stickm.

Vinca L.: *V. rosea* L. is frequently separated from *Vinca* under the name *Catharanthus roseus* (L.) G. Don (name stabilized by ISTA).

Viola L.: *V. hederacea* has also been described under the names *Erpetion reniforme* and *E. hederaceum*.

Viola x wittrockiana Gams: syn.: *V.-Wittrockiana-Hibridae*, *V. tricolor* var. *maxima* hort., *V. tricolor hortensis* auct. non DC., *V. hortensis* auct. non Schur.

Vitis L.: the genera *Ampelopsis*, *Cissus*, *Columella*, *Parthenocissus* and *Tetrastigma* have been included in the genus *Vitis* by certain botanists, particularly by Bentham and Hooker in their *Genera Plantarum*. A great number of synonyms resulting from this conception are still in use. Other synonymies are due to the fact that certain species have been classified in two or three, or even four of the above-mentioned genera. Other synonymies with *Muscadinia*, *Pterisanthes*, *Spinovitis*.

Vriesea Lindl. corr. Beer: synonymies with *Encholirion*, *Guzmania*, *Massangea*, *Tillandsia*.

Weigela Thunb.: see under *Diervilla* Mill.

Wisteria Nutt: synonymies with *Glycine*, *Millettia*, *Wisteria*.

Yucca L.: synonymies with *Dasyliirion*, *Furcraea*, *Hesperaloë*, *Hesperoyucca*, *Nolina*.

Yucca aloifolia L.: *Y. draconis* is a synonym of *Y. aloifolia* var. *draconis*.

Yucca baccata Torr.: syn.: *Y. circinata*. *Y. baccata* var. *australis* is a synonym of *Y. torreyi* Shafer (*Y. macrocarpa* (Torr.) Coville non Engelm).

Yucca whipplei Torr.: syn.: *Hesperoyucca whipplei* (Torr.) Bak.

Zantedeschia Spreng.: synonymies with *Calla*, *Richardia*.

Zelkova Spach: syn.: *Abelicia*. Synonymies with *Hemiptelea*, *Ulmus*.

Zelkova serrata (Thunb. ex Murr.) Makino: syn.: *Z. keaki* (Sieb.) Maxim., *Z. acuminata*.

Zizania latifolia (Griseb.) Turcz. ex Stapf: syn.: *Limnochloa caduciflora* Turcz., *Z. caduciflora* (Turcz.) Hand.-Mazz.

Ziziphus sativa Gaertn.: syn.: *Z. jujuba* Mill., *Z. vulgaris* Lam.

Zygocactus K. Schum.: see under Epiphyllopsis...

Zygopetalon Hook.: synonymies with *Bollea*, *Pescatoria*.