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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for VegetablesFifty-Seventh SessionAntalya, Türkiye, May 1 to 5, 2023Technical Working Party for Agricultural CropsFifty-Second SessionVirtual meeting, May 22 to 26, 2023Technical Working Party for Ornamental Plants and Forest TreesFifty-Fifth SessionVirtual meeting, June 12 to 16, 2023Technical Working Party for Fruit CropsFifty-Fourth SessionNîmes, France, July 3 to 7, 2023 | TWP/7/7Original: EnglishDate: April 28, 2023 |

UPOV information databases

Document prepared by the Office of the Union

Disclaimer: this document does not represent UPOV policies or guidance

Executive summary

 The purpose of this document is to report on developments concerning the GENIE database and to present proposals to amend UPOV codes.

 This document is presented in two sections. The first section, “Proposals for amending the UPOV code system and UPOV codes”, presents matters which may require a decision to be taken by the Technical Working Parties (TWPs). The second section, “Matters for information”, is provided for the information of the TWPs but does not require decisions at this stage.

The TWA and TWV are invited to consider:

1. the proposal to create variety groups to the UPOV codes for Beta vulgaris L. ssp. vulgaris, as set out in paragraph 8 of this document;
2. whether to delete the UPOV code BETAA\_VUL\_GV to avoid the situation where a variety cannot be allocated with certainty to any variety group; and
3. whether to create variety groups for the UPOV code ZEAAA\_MAY\_MAY replacing infra-specific botanical names, as set out in paragraph 10 of this document.

 The TWV is invited to consider the proposal to create variety groups for the UPOV code Brassica oleracea var. capitata L., as set out in paragraph 12 of this document.

 The TWO is invited to consider the proposals to delete and amend UPOV codes, as set out in paragraphs 14 to 37 of this document.

 The structure of this document is as follows:

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 The following abbreviations are used in this document:

CAJ: Administrative and Legal Committee

GRIN: Germplasm Resources Information Network

 TC: Technical Committee

 TWA: Technical Working Party for Agricultural Crops

 TWF: Technical Working Party for Fruit Crops

 TWM: Technical Working Party for Testing Methods and Techniques

 TWO: Technical Working Party for Ornamental Plants and Forest Trees

 TWP(s): Technical Working Party(ies)

 TWV: Technical Working Party for Vegetables

# Replacing complex botanical nomenclature by variety groups

### UPOV codes for Beta vulgaris

 The TC, at its fifty-eight session[[1]](#footnote-2), agreed to invite the TWA and TWV to consider whether to create variety groups to the UPOV codes for *Beta vulgaris* L. ssp*. Vulgaris;*  and whether to delete the UPOV code BETAA\_VUL\_GV to avoid the situation where a variety cannot be allocated with certainty to any variety group (see document TC/58/31 “Report”, paragraph 72).

#### Proposal:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Denomination class | Botanical names | Current UPOV code | UPOV Codes with appended information | Proposed UPOV code with group information |
| Class 2.1 | *Beta vulgaris* L. subsp. *vulgaris* (Fodder beet Group) (synonym to *Beta vulgaris* L. subsp. *vulgaris* var. *alba* DC.) | BETAA\_VUL\_GVA | BETAA\_VUL\_VUL \_21**FB** | BETAA\_VUL\_G**VA** |
| *Beta vulgaris* L. subsp. *vulgaris* (Sugar beet Group) (synonym to *Beta vulgaris* L. subsp. *vulgaris* var. *saccharifera* Alef.) | BETAA\_VUL\_GVS | BETAA\_VUL\_VUL\_21**SB** | BETAA\_VUL\_G**VS** |
| Class 2.2 | *Beta vulgaris* L. subsp. *vulgaris* (Beetroot Group) (synonym to *Beta vulgaris* L. subsp. *vulgaris* var. *conditiva* Alef.) | BETAA\_VUL\_GVC | BETAA\_VUL\_VUL\_22**BR** | BETAA\_VUL\_G**VC** |
| *Beta vulgaris* L. subsp. *vulgaris* (Leaf beet Group) (synonym to *Beta vulgaris* L. subsp. *vulgaris* var. *flavescens* DC. f. crispa) | BETAA\_VUL\_GVF | BETAA\_VUL\_VUL\_22**LB** | BETAA\_VUL\_G**VF** |
| Class 2.3 | Beta other than classes 2.1 and 2.2. | BETAA; BETAA\_VUL; BETAA\_VUL\_GV |   | BETAA; BETAA\_VUL;  |

 *The TWA and TWV are invited to consider:*

1. *the proposal to create variety groups to the UPOV codes for* Beta vulgaris *L. ssp.* vulgaris*, as set out in paragraph 8 of this document; and*
2. *whether to delete the UPOV code BETAA\_VUL\_GV to avoid the situation where a variety cannot be allocated with certainty to any variety group.*

### UPOV codes for Brassica oleracea

 The TC, at its fifty-eight session, agreed to invite the TWV to consider the following proposal to create variety groups for the UPOV code *Brassica oleracea* var. *capitata* L. (see document TC/58/31 “Report”, paragraph 73):

|  |  |  |  |
| --- | --- | --- | --- |
| Botanical names | Current UPOV code | UPOV Codes with appended information | Proposed UPOV code with group information |
| *Brassica oleracea* L. var. *capitata* L. (White Cabbage Group) (synonym to *Brassica oleracea* L. f. *alba* DC.) | BRASS\_OLE\_GCA | BRASS\_OLE\_GC\_1W  | BRASS\_OLE\_GC**A** |
| *Brassica oleracea* L. var. *capitata* L. (Red Cabbage Group)(synonym to *Brassica oleracea* L. var. *rubra* L.) | BRASS\_OLE\_GCR | BRASS\_OLE\_GC\_2R  | BRASS\_OLE\_GC**R** |

 *The TWV is invited to consider the proposal to create variety groups for the UPOV code* Brassica oleracea *var.* capitata *L., as set out in paragraph 10 of this document.*

### UPOV codes for Zea mays

 The TC, at its fifty-eight session[[2]](#footnote-3), agreed to invite the TWA and TWV to consider whether to create variety groups for the UPOV code ZEAAA\_MAY\_MAY replacing infra-specific botanical names, as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Principal botanical name | Other botanical name(s) | Variety groups | Proposed UPOV code with group information |
| *Zea mays* L. subsp. *mays* | *Zea mays* var *ceratina* L.; *Zea mays* var. *indentata* (Sturtev.) L. H. Bailey; *Zea mays* var. *indurata* (Sturtev.) L. H. Bailey;*Zea mays* var. *saccharata* (Sturtev.) L. H. Bailey; *Zea mays* L. *saccharata* Koern.;*Zea mays* L. var. *everta* (Praecox) Sturt.;*Zea mays* L. convar. *microsperma* Koern. | Corn; Maize: “1MA” | ZEAAA\_MAY\_**GMA** |
| Sweet Corn: “2SW”  | ZEAAA\_MAY\_**GSW** |
| Popcorn: “3PO” | ZEAAA\_MAY\_**GPO** |

 *The TWA and TWV are invited to consider whether to create variety groups for the UPOV code ZEAAA\_MAY\_MAY replacing infra-specific botanical names, as set out in paragraph 12 of this document.*

# Reclassification of species under different genera

### UPOV code for Berberis species

 The Office of the Union was informed of the reclassification of certain *Berberis* speciesto *Mahonia* species.

 The current entries in the GENIE database for certain *Berberis* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| BERBE\_AQU | *Berberis aquifolium* Pursh | *Mahonia aquifolium* (Pursh) Nutt. | blue barberry, holly barberry, holly mahonia, mountain-grape, Oregon-grape | 6 |
| BERBE\_EUR | *Berberis eurybracteata* (Fedde) Laferr. | *Mahonia eurybracteata* Fedde | n.a. | 3 |
| BERBE\_NIT | *Berberis nitens* (C. K. Schneid.) Laferr. | *Berberis nitens* (C. K. Schneid.) Laferr. | n.a | 1 |
| BERBE\_PUM  | *Berberis pumila* Greene | *Mahonia pumila* (Greene) Fedde | n.a | 0 |
| BERBE\_REP | *Berberis repens* Lindl. | *Mahonia repens* (Lindl.) G. Don | creeping barberry, creeping mahonia, Oregon barberry, Oregon grape-holly, Oregon-grape | 5 |

Proposal

 The TWO might wish to consider replacing the UPOV codes BERBE\_AQU, BERBE\_EUR, BERBE\_NIT, BERBE\_PUM and BERBE\_REP by the UPOV Codes MAHON\_AQU, MAHON\_EUR, MAHON\_NIT, MAHON\_PUM and MAHON\_REP, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| BERBE\_AQU | *Berberis aquifolium* Pursh | *Berberis diversifolia* (Sweet) Steud.; *Mahonia aquifolium* (Pursh) Nutt.; *Mahonia aquifolium* subsp. *aquifolium* (Pursh) Nutt.; *Mahonia diversifolia* Sweet | MAHON\_ AQU | *Mahonia aquifolium* (Pursh) Nutt. | Mahonia diversifolia Sweet; Mahonia aquifolium (Pursh) Nutt.; Mahonia aquifolium (Pursh) Nutt. subsp. aquifolium; *Mahonia aquifolium* subsp. *aquifolium* (Pursh) Nutt. |
| BERBE\_EUR | *Berberis eurybracteata* (Fedde) Laferr. | *Mahonia eurybracteata* Fedde | MAHON\_EUR | *Mahonia eurybracteata* Fedde | *Berberis eurybracteata* (Fedde) Laferr. |
| BERBE\_NIT | *Berberis nitens* (C. K. Schneid.) Laferr. | *Mahonia nitens* C. K. Schneid. | MAHON\_NIT | *Mahonia nitens* C. K. Schneid. | *Berberis nitens* (C. K. Schneid.) Laferr. |
| BERBE\_PUM | *Berberis pumila* Greene | *Mahonia pumila* (Greene) Fedde | MAHON\_PUM | *Mahonia pumila* (Greene) Fedde | *Berberis pumila* Greene |
| BERBE\_REP | *Berberis repens* Lindl. | *Berberis sonnei* (Abrams) McMinn*; Mahonia repens* (Lindl.) G. Don*; Mahonia repens var. repens* (Lindl.) G. Don*; Mahonia repens var.* rotundifolia (May) Fedde*; Mahonia sonnei* Abrams | MAHON\_REP | *Mahonia repens* (Lindl.) G. Don | *Berberis repens* Lindl.; *Berberis sonnei* (Abrams) McMinn*; Mahonia repens* (Lindl.) G. Don*; Mahonia repens var. repens* (Lindl.) G. Don*; Mahonia repens var.* rotundifolia (May) Fedde*; Mahonia sonnei* Abrams |

### UPOV code for Calathea species

 The Office of the Union was informed of the reclassification of certain *Calathea* speciesto *Goeppertia* species.

 The current entries in the GENIE database for certain *Calathea* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CALAT\_CRO | *Calathea crocata* E. Morren & Joriss. | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | n.a. | 8 |
| CALAT\_LOE | *Calathea loeseneri* J. F. Macbr. | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez | n.a. | 0 |
| CALAT\_ROS | *Calathea roseopicta* (Linden) Regel | *Goeppertia roseopicta* (Linden) Borchs. & S. Suárez | n.a. | 25 |
| CALAT\_WAR | *Calathea warscewiczii* (Klotzsch) Körn. | *Goeppertia warscewiczii* (L. Mathieu ex Planch.) Borchs. & S. Suárez | n.a. | 3 |
| CALAT\_LRO | *Calathea loeseneri* J. F. Macbr*.* × *Calathea roseopicta* (Linden) Regel | n.a. | n.a. | 5 |

Proposal

 The TWO might wish to consider replacing the UPOV Codes CALAT\_CRO, CALAT\_LOE, CALAT\_ROS, CALAT\_WAR and CALAT\_LRO by the UPOV Codes GOEPP\_CRO GOEPP\_LOE, GOEPP\_ROS, GOEPP\_WAR and GOEPP\_LRO, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CALAT\_CRO | *Calathea crocata* E. Morren & Joriss. | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | GOEPP\_CRO  | *Goeppertia crocata* (É. Morren & Joriss.) Borchs. & S. Suárez | *Calathea crocata* É. Morren & Joriss. |
| CALAT\_LOE | *Calathea loeseneri* J. F. Macbr. | n.a. | GOEPP\_LOE | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez | *Calathea loeseneri* J. F. Macbr. |
| CALAT\_ROS | *Calathea roseopicta* (Linden) Regel | *Goeppertia roseopicta* (Linden) Borchs. & S. Su rez | GOEPP\_ROS | *Goeppertia roseopicta* (Linden) Borchs. & S. Suárez | *Calathea roseopicta* (Linden) Regel |
| CALAT\_WAR | *Calathea warscewiczii* (Klotzsch) Körn. | *Calathea warscewiczii* (Mathieu ex Planch.) Körn. | GOEPP\_WAR | *Goeppertia warscewiczii* (L. Mathieu ex Planch.) Borchs. & S. Suárez | *Calathea warscewiczii* (L. Mathieu ex Planch.) Planch. & Linden |
| CALAT\_LRO | *Calathea loeseneri* J. F. Macbr*.* × *Calathea roseopicta* (Linden) Regel | n.a. | GOEPP\_LRO | *Goeppertia loeseneri* (J. F. Macbr.) Borchs. & S. Suárez × *G. roseopicta* (Linden) Borchs. & S. Suárez | *Calathea loeseneri* J. F. Macbr*.* × *C. roseopicta* (Linden) Regel |

### UPOV code for Castalis species

 The Office of the Union was informed of the reclassification of certain *Castalis* speciesto *Dimorphotheca* species.

 The current entries in the GENIE database for certain *Castalis* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CASTL\_TRA | *Castalis tragus* (Aiton) Norl. | *Dimorphotheca tragus* (Aiton) DC.. | n.a. | 3 |

Proposal

 The TWO might wish to consider replacing the UPOV code CASTL\_TRA by the UPOV Code DIMOR\_TRA, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CASTL\_TRA | *Castalis tragus* (Aiton) Norl. | *Dimorphoteca aurantiaca; Dimorphoteca aurantiaca* DC.*; Dimorphotheca aurantiaca* DC.*; Dimorphotheca tragus* (Aiton) B. Nord*.* | DIMOR\_TRA | *Dimorphotheca tragus* (Aiton) DC. | Castalis tragus (Aiton) Norl.; *aurantiaca; Dimorphoteca aurantiaca* DC.*; Dimorphotheca aurantiaca* DC. |

### UPOV code for Cleome species

 The Office of the Union was informed of the reclassification of certain *Cleome* speciesto *Tarenaya* species.

 The current entries in the GENIE database for certain *Tarenaya* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| CLEOM\_HAS  | *Cleome hassleriana* Chodat | *Tarenaya hassleriana* (Chodat) H. H. Iltis(synonym: *Cleome hassleriana* Chodat, *Cleome pungens* auct., *Cleome spinosa* auct.*)* | pink-queen; spider-flower; spiderplant | 8 |
| CLEOM\_SPI | *Cleome spinosa* Jacq. | *Tarenaya spinosa* (Jacq.) Raf.(synonym: *Cleome spinosa* Jacq.*)* | spiny spider-flower | 12 |

Proposal

 The TWO might wish to consider replacing the UPOV Codes CLEOM\_HAS and CLEOM\_SPI by the UPOV Codes TARNY\_SPI and TARNY\_HAS, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| CLEOM\_HAS  | *Cleome hassleriana* Chodat | *Cleome pungens* auct.; *Cleome spinosa* auct.; *Tarenaya hassleriana* (Chodat) H. H. Iltis | TARNY\_SPI  | *Tarenaya hassleriana* (Chodat) H. H. Iltis | *Cleome hassleriana* Chodat, *Cleome pungens* auct., *Cleome spinosa* auct. |
| CLEOM\_SPI | *Cleome spinosa* Jacq. | *Tarenaya spinosa* (Jacq.) Raf. | TARNY\_HAS | *Tarenaya spinosa* (Jacq.) Raf. | *Cleome spinosa* Jacq. |

### UPOV code for Deschampsia species

 The Office of the Union was informed of the reclassification of certain *Deschampsia* speciesto *Avenella* species.

 The current entries in the GENIE database for certain *Deschampsia* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| DESCH\_FLE | *Deschampsia flexuosa* (L.) Trin. | *Avenella flexuosa* (L.) Parl. | n.a | 2 |

Proposal

 The TWO might wish to consider replacing the UPOV code DESCH\_FLE by the UPOV Code AVENE\_FLE, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| DESCH\_FLE | *Deschampsia flexuosa* (L.) Trin. | *Avenella flexuosa* (L.) Parl. | AVENE\_FLE  | *Avenella flexuosa* (L.) Parl. | *Deschampsia flexuosa* (L.) Trin. |

### UPOV code for Epiphyllum species

 The Office of the Union was informed of the reclassification of certain *Epiphyllum* speciesto *Tarenaya* species.

 The current entries in the GENIE database for certain *Tarenaya* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| EPIPH\_ANG | *Epiphyllum anguligerum* (Lem.) G.Don | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | n.a. | 2 |

Proposal

 The TWO might wish to consider replacing the UPOV Code EPIPH\_ANG by the UPOV Codes DISOC\_NGL, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| EPIPH\_ANG  | *Epiphyllum anguligerum* (Lem.) G.Don | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | DISOC\_NGL  | *Disocactus anguliger* (Lem.) M. Á. Cruz & S. Arias | *Epiphyllum anguligerum* (Lem.) G.Don |

### UPOV code for Osteospermum species

 The Office of the Union was informed of the reclassification of certain *Osteospermum* speciesto *Dimorphotheca* species.

 The current entries in the GENIE database for certain *Osteospermum* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| OSTEO\_ECK | *Osteospermum ecklonis* (DC.) Norl. | *Dimorphotheca ecklonis* DC. | n.a. | 1,159 |
| OSTEO\_FRU | *Osteospermum fruticosum* (L.) Norl. | *Dimorphotheca fruticosa* (L.) DC. | n.a. | 34 |

Proposal

 The TWO might wish to consider replacing the UPOV Codes OSTEO\_ECK, OSTEO\_FRU and OSTEO\_ECC by the UPOV Codes DIMOR\_ECK, DIMOR \_FRU and DIMOR\_ECC, respectively, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| OSTEO\_ECK | *Osteospermum ecklonis* (DC.) Norl. | *Dimorphotheca ecklonis* DC. | DIMOR\_ECK | *Dimorphotheca ecklonis* DC. | *Osteospermum ecklonis* (DC.) Norl. |
| OSTEO\_FRU | *Osteospermum fruticosum* (L.) Norl. | n.a. | DIMOR \_FRU | *Dimorphotheca fruticosa* (L.) DC. | *Osteospermum fruticosum* (L.) Norl. |

### UPOV code for Uncinia species

 The Office of the Union was informed of the reclassification of *Uncinia* to *Carex* species.

 The current entries in the GENIE database for certain *Uncinia* species, the taxa in GRIN and the numbers of entries in the PLUTO database, are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UPOV code | Principal botanical name in GENIE | Botanical name(s)in GRIN | Common name(s)in GENIE | Number of entries in PLUTO |
| UNCIN | *Uncinia* Pers. | *Carex* L. | n.a | 0 |
| UNCIN\_DIV | *Uncinia divaricata* Boott | *Carex edura* K. A. Ford | n.a. | 0 |
| UNCIN\_EGM  | *Uncinia egmontiana* Hamlin | *Carex egmontiana* (Hamlin) K. A. Ford | *Egmont hook sedge; Mount Egmont tussock*  | 0 |
| UNCIN\_RUB | *Uncinia rubra* Colenso ex Boott | *Carex punicea* K. A. Ford | n.a | 4 |
| UNCIN\_UNC  | *Uncinia uncinata* (L. f.) Kük. | *Carex uncinata* L. f. | n.a | 2 |

Proposal

 The TWO might wish to consider the deletion of the UPOV codes UNCIN, UNCIN\_DIV, UNCIN\_EGM, UNCIN\_RUB and UNCIN\_UNC. Uncinia specieswould be covered as a synonym of *Carex* speciesunder UPOV codes CAREX, CAREX \_DIV, CAREX \_EGM, CAREX \_RUB and CAREX \_UNC, as follows:

|  |  |
| --- | --- |
| Current | Proposal |
| UPOV code | Principal botanical name | Other botanical name(s) | UPOV code | Principal botanical name | Other botanical name(s) |
| UNCIN | *Uncinia* Pers. | n.a | CAREX | *Carex* L. | *Uncinia* Pers. |
| UNCIN\_DIV | *Uncinia divaricata* Boott | n.a | CAREX \_DIV | *Carex edura* K. A. Ford | *Uncinia divaricata* Boott |
| UNCIN\_EGM  | *Uncinia egmontiana* Hamlin | n.a | CAREX \_EGM  | *Carex egmontiana* (Hamlin) K. A. Ford | *Uncinia egmontiana* Hamlin |
| UNCIN\_RUB | *Uncinia rubra* Colenso ex Boott | n.a | CAREX \_RUB | *Carex punicea* K. A. Ford | *Uncinia rubra* Colenso ex Boott |
| UNCIN\_UNC  | *Uncinia uncinata* (L. f.) Kük. | n.a | CAREX \_UNC  | *Carex uncinata* L. f. | *Uncinia uncinata* (L. f.) Kük. |

 *The TWO is invited to consider the proposal to delete and amend the UPOV Codes* CLEOM\_HAS, CLEOM\_SPI, EPIPH\_ANG, CALAT\_CRO, CALAT\_LOE, CALAT\_ROS, CALAT\_WAR, CALAT\_LRO, OSTEO\_ECK, OSTEO\_FRU, OSTEO\_ECC, CASTL\_TRA BERBE\_AQU, BERBE\_EUR, BERBE\_NIT, BERBE\_PUM, BERBE\_REP, DESCH\_FLE, UNCIN, UNCIN\_DIV, UNCIN\_EGM, UNCIN\_RUB and UNCIN\_UNC*, as set out in paragraphs 14 to 37 of this document.*

Matters for information

## GENIE database

*Background*

 The GENIE database (<http://www.upov.int/genie/en/>) has been developed to provide online information on the status of protection, cooperation in examination, experience in DUS testing and existence of UPOV Test Guidelines for different GENera and specIEs (hence GENIE). The GENIE database is used to generate the relevant Council and TC documents concerning that information[[3]](#footnote-4).

 The GENIE database is the repository of the UPOV codes and provides information concerning the principal and alternative botanical names and common names of plant taxa.

*UPOV code developments*

 In 2022, 183 new UPOV codes were created. The total number of UPOV codes in the GENIE database as of December 31, 2022 was 9,525.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| New UPOV codes | 212 | 209 | 577 | 188 | 173 | 440 | 242 | 243 | 177 | 131 | 183 |
| Amendments | 5 | 47\* | 37 | 11 | 16 | 1 | 5 | 3 | 44 | 35 | 35 |
| Total UPOV Codes | 7,061 | 7,251 | 7,808 | 7,992 | 8,149 | 8,589 | 8,844 | 9,077 | 9,213 | 9,342 | 9,525 |

\* including changes to UPOV codes resulting from the amendment of the “Guide to the UPOV Code System” concerning hybrids (see document TC/49/6).

*TWP checking*

 Section 3.3 of the “Guide to the UPOV Code System” provides the following:

“Amendments to UPOV codes will be handled by the same procedure as the introduction of new UPOV codes […]. However, in addition, all members of the Union and contributors of data to the Plant Variety Database will be informed of any amendments”.

 In accordance with the procedure set out in Section 3.3 of the Guide to the UPOV Code System, the Office of the Union prepared tables of UPOV code additions and amendments, for checking by the relevant authorities, for each of the Technical Working Party (TWP) sessions in 2023.

 The Excel files in the Annex to this document provide information on new UPOV codes added to the GENIE database and UPOV code amendments that have not yet been checked by the relevant authorities, as follows:

“Part A, ‘UPOV codes amendments to be checked’:

for each change, the old entry is highlighted in the row in red and the changes to the entry are found in the line immediately below that highlighted row (they have the same number in the first column). All Technical Working Parties and Authority(ies) are requested to check the amendments whether the amendments follow UPOV code system, reflects authentic botanical names and/or common names (see “Guide to the UPOV Code System” http://www.upov.int/export/sites/upov/genie/en/pdf/upov\_code\_system.pdf).

“Part B ‘New UPOV codes or new information’:

contains the new UPOV codes or new information added for existing UPOV codes. Highlighting in grey indicates that the UPOV code or name has not been changed. In this spreadsheet, the column headers highlighted in yellow indicate the relevant Technical Working Party (TWP) and Authority(ies) of interest which are requested to check the correctness of the information.”

“Part C ‘Crop type(s) of existing UPOV codes used in the PLUTO database for the first time’:

contains the new crop type allocation or amended allocation for existing UPOV codes used in the PLUTO database for the first time. In this spreadsheet, the column headers highlighted in yellow indicate the relevant crop type(s) which are requested to check the correctness of the information.”

 The Annex to this document contain parts A “UPOV codes amendments to be checked”, B “New UPOV codes or new information”, and C “Crop type(s) of UPOV codes used in the PLUTO database for the first time”. The Excel format files are available on the websites for the 2023 sessions of the TWPs.

 Experts of the Technical Working Party for Vegetables (TWV), Technical Working Party for Ornamental Plants and Forest Trees (TWO), Technical Working Party for Agricultural Crops (TWA) and Technical Working Party for Fruit Crops (TWF) are invited to check the amendments, new UPOV codes or information, and UPOV codes used in the PLUTO database for the first time, as reproduced in the Annex to this document and submit comments to the Office of the Union by December 31, 2023.

## Proposals for amending the UPOV code system and UPOV codes

 The guide to the UPOV code system (document UPOV/INF/23 “UPOV Code System”) was adopted by the Council on September 21, 2021, and is available on the UPOV website at <https://www.upov.int/genie/resources/pdfs/upov_code_system_en.pdf> (see document C/55/12 “Outcome of consideration of documents by correspondence”, paragraph 32).

*Proposals for the revision of document UPOV/INF/23 “Guide to the UPOV code system”*

 The TC, at its fifty-eight session[[4]](#footnote-5), agreed to revise document UPOV/INF/23 “Guide to the UPOV Code System”, as follows (deletions indicated with highlighting and ~~strikethrough~~; additions indicated with highlighting and underline) (see document TC/58/31 “Report”, paragraph 22):

“5 UPOV CODE: APPENDED INFORMATION

“5.1 Appended element construction

“5.1.1. Where required, an element may be appended to a UPOV code to provide information on the variety group, variety type and/or denomination class.

“The appended element to UPOV codes is identifiable though the following naming convention:

* “A digit (number from 1 to 9) prefix identifies the new appended element.
* “Different digits or letters could, if appropriate, indicate different categories of information.
* “The appended element should contain a maximum of six digits or letters in total (e.g. ‘1AC2TG’)

“This element may be appended to any UPOV code, regardless of plant taxa (genera, species or subspecies levels). Examples:

“UPOV code for genus *Abies*: ABIES

“UPOV code with appended element: ABIES\_~~1234~~ 1AC2TG

“UPOV code for species *Abies sibirica*: ABIES\_SIB

“UPOV code with appended element: ABIES\_SIB\_~~1234~~ 1AC2TG

“UPOV code for sub-species *Abies sibirica* subsp. *semenovii*: ABIES\_SIB\_SEM

“UPOV code with appended element: ABIES\_SIB\_SEM\_~~1234~~ 1AC2TG”

Correction of cross-references to document UPOV/EXN/DEN

 Cross-references to document UPOV/INF/12 “Explanatory Notes to Variety Denominations under the UPOV Convention” should be corrected and replaced by UPOV/EXN/DEN in paragraphs 4.2 and 4.3 of document UPOV/INF/23, as follows:

“4.2 Inter-generic and inter-specific hybrids

4.2.6 In the case of UPOV codes for hybrid genera and species, the UPOV code will not distinguish between two hybrids produced using the same parents. A UPOV code is created for the first hybrid notified to UPOV in accordance with the procedure set out in paragraphs ~~2.2.3 to 2.2.5~~ 4.2.3 to 4.2.5. However, if a subsequent request is received for a hybrid involving the same genera/species in a different combination, the Principal Botanical Name will be amended to indicate that the UPOV code covers all combinations involving the same genera/species.”

 “4.3 Introduction of New UPOV Codes / Amendments to UPOV Codes

“(d) In general, amendments to UPOV codes will not be made as a result of taxonomic developments unless these result in a change to the genus classification of a species. The “Explanatory notes on variety denominations under the UPOV Convention” (document ~~UPOV/INF/12~~ UPOV/EXN/DEN) contain UPOV variety denomination classes; for genera and species not covered by the List of Classes in Annex I to document ~~UPOV/INF/12~~ UPOV/EXN/DEN, the general rule (“one genus / one class”) is that a genus is considered to be a class (see document ~~UPOV/INF/12~~ UPOV/EXN/DEN, Section ~~2.5.2~~ 4.5.2 and its Annex I). […]”

## Proposals for amending UPOV codes

*Replacing complex botanical nomenclature by variety groups*

 Section 4.3 (d) of the “Guide to the UPOV Code System” provides the following:

“Amendments to UPOV codes will be handled by the same procedure as the introduction of new UPOV codes […]. However, in addition, all members of the Union and contributors of data to the Plant Variety Database will be informed of any amendments”.

 On the basis of the conclusions at the TC on the matters presented in the following sections, members of the Union and contributors of data to the PLUTO database will be informed of the changes and the date of the changes by means of a Circular in advance. Contributors of data to the PLUTO database will be requested to use the amended UPOV codes when submitting their plant variety data to the Office of the Union.

*UPOV codes for Brassica oleracea*

 On the basis of the conclusions at the TC, the UPOV codes BRASS\_OLE\_GA and BRASS\_OLE\_GB will be deleted on June 30, 2023.

*UPOV codes for Citrus*

 On the basis of the conclusions at the TC, the UPOV code CITRU\_AUM will be amended to append information to create groups “1MA” for mandarins and “2OR” for oranges, as following, on June 30, 2023.

|  |  |
| --- | --- |
| Old  | New |
| Entries in PLUTO | TG | UPOV Code | Principal botanical name | Other botanical name(s) | UPOV Code | Principal botanical name | Other botanical name(s) |
|  10 | TG/202 | CITRU\_AUM | Citrus aurantium L. | n.a. | CITRU\_AUM**\_1MA**CITRU\_AUM**\_2OR** | Citrus ×aurantium L. | Citrus amara Link; Citrus bigarradia Loisel.; Citrus intermedia hort. ex Tanaka; Citrus taitensis Risso; Citrus vulgaris Risso; Citrus ×aurantium subsp. aurantium L.; Citrus ×aurantium subsp. jambiri Engl.; Citrus ×aurantium subsp. keonla Engl.; Citrus ×aurantium subsp. suntara Engl.; Citrus ×aurantium var. aurantium L.; Citrus ×aurantium var. citrina Lush.; Citrus ×bigarradia var. volkameriana Risso; Citrus ×clementina hort. ex Tanaka; Citrus ×crenatifolia Lush.; Citrus reticulata × C. maxima |
|  115 | TG/201 | CITRU\_CLE | Citrus clementina hort. ex Tanaka | n.a. |
|  1 | / | CITRU\_MRE | Citrus maxima X Citrus reticulata | n.a. |
|  0 | TG/201 | CITRU\_CRE | Citrus crenatifolia Lush. | n.a. |
|  0 | TG/204 | CITRU\_INT | Citrus intermedia hort. ex Tanaka | n.a. |

 The UPOV codes CITRU\_CLE, CITRU\_MRE, CITRU\_CRE, CITRU\_INT, CITRU\_AUR, CITRU\_DAV, CITRU\_EXC, CITRU\_KER, CITRU\_BAL and CITRU\_KAR and CITRU\_BEN will be deleted on the said date.

*UPOV codes for Zea mays*

 On the basis of the conclusions at the TC, the UPOV code ZEAAA\_MAY\_SAC, ZEAAA\_MAY\_EVE and ZEAAA\_MAY\_MIC will be deleted, on June 30, 2023.

[Annex follows]

[See Excel files]

[End of Annex and of document]

1. Held in Geneva on October 24 and 25, 2022 [↑](#footnote-ref-2)
2. Held in Geneva on October 24 and 25, 2022 [↑](#footnote-ref-3)
3. See documents C/[session]/INF/6 “List of the taxa protected by the members of the Union; C/[session]/INF/5 “Cooperation in Examination”; TC/[session]/INF/4 “List of genera and species for which authorities have practical experience in the examination of distinctness, uniformity and stability”; and TC/[session]/2 “Test Guidelines”. [↑](#footnote-ref-4)
4. Held in Geneva on October 24 and 25, 2022 [↑](#footnote-ref-5)