

Research Article

Gathering Pearls from the Lethe: Nomenclatural Novelties for Nothotaxa

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Abstract

The integration of fine-scale taxonomic results into a comprehensive phylogenetic classification remains an ongoing challenge in modern systematics, particularly for infraspecific variants and interspecific hybrids, which are often overlooked. To address the resulting nomenclatural gaps and instabilities, this study provides a significant update by introducing numerous nomenclatural novelties for selected vascular plant genera, with a special focus on nothotaxa. In total, this work validates 452 nomenclatural novelties across 31 families, including Aizoaceae, Amaranthaceae, Amaryllidaceae, Apiaceae, Apocynaceae, Asteraceae, Berberidaceae, Cactaceae, Cistaceae, Crassulaceae, Cupressaceae, Cyperaceae, Equisetaceae, Fabaceae, Gesneriaceae, Melanthiaceae, Orchidaceae, Poaceae, Ranunculaceae and Saxifragaceae, ect. Among them are the establishment of 12 new nothogenera: × *Osteolaena* [Amaranthaceae], × *Chrysania*, × *Cicuca*, × *Ozodes* and × *Psepaurea* [Asteraceae], × *Turdenicarpus* [Cactaceae], × *Astoxytropis* [Fabaceae], × *Eucongia* [Gesneriaceae], × *Pseudillium* [Melanthiaceae], × *Batepalum* [Orchidaceae], × *Rankwithia* [Ranunculaceae] and × *Mitarella* [Saxifragaceae]; 59 nothoranks [five nothosubgenera, 42 nothosections, six nothosubsections and six nothoserries] under seven nothogenera [× *Anacamptorchis*, × *Dactylocamptis*, × *Dactylodenia*, × *Gymnanacamptis*, × *Orchidactylorhiza*, × *Orchigymnadenia* and × *Orchimantoglossum*] for the first time and as additions to five natural genera [*Cattleya*, *Dactylorhiza*, *Paphiopedilum*, *Phalaenopsis* and *Pulsatilla*], respectively; moreover, 360 new nomenclatural acts are proposed, covering 139 new combinations, 209 new combinaton and status, six new status, and six new replacement names; besides, nine names are synonymized under eight taxa. These changes reconcile hybrid taxonomy with contemporary phylogenetic insights, stabilize nomenclature and provide a crucial reference to support accurate identification, biodiversity documentation, and conservation efforts.

Keywords

New Combinations, New Status, Replacement Name, Nothotaxa, Rank

1. Introduction

Building upon the broadly established phylogenetic framework at higher taxonomic levels, the continuous publication of new studies at the genus and species level necessitates the integration of their results into a complete classification down

to the lowest ranks. This process creates a demand for new nomenclatural combinations, especially for infraspecific variations (subspecies, varieties, forms) and hybrids, which are typically overlooked in molecular phylogenetic studies. These

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often poorly differentiated microtaxa can possess significant local heritage value that risks being lost when they are subsumed into broader taxa. Furthermore, updating major nomenclatural databases requires incorporating findings from these numerous publications. Despite phylogenetic classification becoming standard in modern biology, the practical integration of fine-scale nomenclatural results remains an incomplete and challenging task, highlighting the need to validate new names for these overlooked ranks to support future identification and conservation.

The establishment of a stable nomenclature is particularly critical and challenging for nothospecies (interspecific hybrids), given their significant practical importance. Their value spans the creation of ornamental horticultural plants, the development of improved food crops, and their potential as medical resources. However, their nomenclature is frequently destabilized by ongoing taxonomic revisions driven by advances in molecular systematics, which routinely redefine genera through lumping and splitting. This instability underscores an urgent need for comprehensive compilations that reconcile hybrid taxonomy with contemporary phylogenetic classifications. Systematic efforts to document nothogeneric names and establish new nomenclatural arrangements are therefore essential to provide a reliable reference framework and accommodate newly described hybrids.

The taxonomical/nomenclatural concept of the current checklist follows the following principles:

Family-level. The author accepted the family circumscription from the classification systems APG IV [1] for angiosperm, PPG I [2] for lycophytes and fern allies, and a revised classification scheme for gymnosperm. [3]

Genus-level. It is widely known, that one of the most difficult decisions concerns the choice of generic concepts, which is the main source of name changes [4]. To avoid conflicts between contrasting points of view, the author applied the generic concept following the POWO.

Species-level. The acceptance of a genus is contingent on the specific database referenced. In contrast, defining a species often relies heavily on subjective expert knowledge. An exception exists when a species has undergone definitive phylogenetic analysis; its taxonomic status becomes stable once confirmed by authoritative molecular, morphological, or other studies. Entities involved here follow POWO and recent literature.

Nomenclature-level. Madrid Code [5] of ICN has been followed in making necessary nomenclatural decisions. Unless more recent information is available, author attributions of scientific plant names cited follows IPNI, albeit in the notation required by the journal. To achieve precise writing, only selected references are provided for crucial taxonomic information.

2. Nomenclatural Treatment

2.1. Nomenclatural Novelties at Generic Level

Amaranthaceae

Osteolaena Z.H.Feng, nothogen. nov. — Parentage: *Osteocarpum* × *Sclerolaena*.

Asteraceae

× *Chrysania* Z.H.Feng, nothogen. nov. — Parentage: *Ajania* × *Chrysanthemum*.

× *Cicuca* Z.H.Feng, nothogen. nov. — Parentage: *Cicerbita* × *Lactuca*.

× *Ozodes* Z.H.Feng, nothogen. nov. — Parentage: *Anaphalioides* × *Ozothamnus*.

× *Psepaurea* Z.H.Feng, nothogen. nov. — Parentage: *Centaurea* × *Psephellus*.

Cactaceae

× *Turdenicarpus* Z.H.Feng, nothogen. nov. — Parentage: *Kadenicarpus* × *Turbinicarpus*.

Fabaceae

× *Astoxytropis* Z.H.Feng & K.W.Jiang, nothogen. nov. — Parentage: *Astragalus* × *Oxytropis*.

Gesneriaceae

× *Eucongia* Z.H.Feng, nothogen. nov. — Parentage: *Eucodonia* × *Sinningia*.

Melanthiaceae

× *Pseudillium* Z.H.Feng, nothogen. nov. — Parentage: *Pseudotrillium* × *Trillium*.

Orchidaceae

× *Batepalum* J.M.H.Shaw & Z.H.Feng, nothogen. nov. — Parentage: *Batemannia* × *Zygosepalum*.

Ranunculaceae

Rankwithia Z.H.Feng, nothogen. nov. — Parentage: *Beckwithia* × *Ranunculus*.

Saxifragaceae

× *Mitarella* Z.H.Feng, nothogen. nov. — Parentage: *Mitella* × *Tiarella*.

2.2. Nomenclatural Novelties at Infrageneric Level

Orchidiaceae

× *Anacamptorchis* E.G.Camus, J. Bot. (Morot) 6: 113 (1892). [6-8]

× *Anacamptorchis* nothosect. *Andranorchis* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Andranthus* × *Orchis* sect. *Orchis*.

× *Anacamptorchis* nothosect. *Coriorchis* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Coriophorae* × *Orchis* sect. *Orchis*.

× *Anacamptorchis* nothosect. *Masanthus* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Phalaenanthus* × *Orchis* sect. *Masculae*.

× *Anacamptorchis* nothosect. *Moriculae* Z.H.Feng, notho-

sect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Orchis* sect. *Masculae*.

× *Anacamptorchis* nothosect. *Moriorchis* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Orchis* sect. *Orchis*.

× *Anacamptorchis* nothosect. *Morivinciales* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Orchis* sect. *Provinciales*.

× *Anacamptorchis* nothosect. *Phalaenorchis* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Phalaenanthus* × *Orchis* sect. *Orchis*.

× *Anacamptorchis* nothosect. *Phaliales* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Phalaenanthus* × *Orchis* sect. *Provinciales*.

× *Anacamptorchis* nothosect. *Robustocatae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Saccatae* × *Orchis* sect. *Robustocalcare*.

× *Anacamptorchis* nothosect. *Saccusillae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Saccatae* × *Orchis* sect. *Pusillae*.

Cattleya Lindl., Coll. Bot. (Lindley) 7: t. 33 (1824). [6, 9, 10]

Cattleya nothosubgen. *Cattmediae* Z.H.Feng, nothosubgen. nov. — Parentage: *Cattleya* subgen. *Cattleya* × *Cattleya* subgen. *Intermediae*.

Cattleya nothosect. *Crisleya* Z.H.Feng, nothosect. nov. — Parentage: *Cattleya* sect. *Cattleya* × *Cattleya* sect. *Crispae*.

Cattleya nothoser. *Hadroleyleyodes* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* sect. *Cattleya* × *Cattleya* ser. *Cattleyodes* × *Cattleya* ser. *Hadrolaelia*.

Cattleya nothoser. *Hadronitis* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* ser. *Hadrolaelia* × *Cattleya* ser. *Sophronitis*.

Cattleya nothoser. *Inteparviodes* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* subgen. *Intermediae* × *Cattleya* ser. *Cattleyodes* × *Cattleya* ser. *Parviflorae*.

Cattleya nothoser. *Intesophronitis* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* subgen. *Intermediae* × *Cattleya* ser. *Sophronitis*.

Cattleya nothoser. *Lawolaelia* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* sect. *Lawrenceanae* × *Cattleya* ser. *Hadrolaelia*.

Cattleya nothoser. *Parviodes* Z.H.Feng, nothoser. nov. — Parentage: *Cattleya* sect. *Cattleyodes* × *Cattleya* ser. *Parviflorae*.

× *Dactylocamptis* P.F.Hunt & Summerh., *Watsonia* 6: 132 (1965). [6-8, 11]

× *Dactylocamptis* nothosect. *Andrafoliae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Andranthus* × *Dactylorhiza* sect. *Angustifoliae*.

× *Dactylocamptis* nothosect. *Andrarhiza* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Andranthus* × *Dactylorhiza* sect. *Dactylorhiza*.

× *Dactylocamptis* nothosect. *Andrulatae* Z.H.Feng, notho-

sect. nov. — Parentage: *Anacamptis* sect. *Andranthus* × *Dactylorhiza* sect. *Maculatae*.

× *Dactylocamptis* nothosect. *Coriorhiza* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Coriophorae* × *Dactylorhiza* sect. *Dactylorhiza*.

× *Dactylocamptis* nothosect. *Dactylorianthus* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Dactylorhiza* sect. *Dactylorhiza*.

× *Dactylocamptis* nothosect. *Macamptis* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Anacamptis* × *Dactylorhiza* sect. *Maculatae*.

× *Dactylocamptis* nothosect. *Morculatae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Dactylorhiza* sect. *Maculatae*.

× *Dactylocamptis* nothosect. *Morifoliae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Dactylorhiza* sect. *Angustifoliae*.

× *Dactylocamptis* nothosect. *Morucinae* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Dactylorhiza* sect. *Sambucinae*.

× *Dactylodenia* Garay & H.R.Sweet, Bot. Mus. Leaf. 21: 157 (1966). [6, 11, 12]

× *Dactylodenia* nothosect. *Angustiana* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Gymnadenia* sect. *Praegnatiana*.

× *Dactylodenia* nothosect. *Balcafoliae* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Gymnadenia* sect. *Balkanica*.

× *Dactylodenia* nothosect. *Gymnafoliae* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Gymnadenia* sect. *Gymnadenia*.

× *Dactylodenia* nothosect. *Gymnaglossum* (Rolfe) Z.H.Feng, comb. & stat. nov. — Basionym: × *Gymnaglossum* Rolfe, *Orchid Rev.* 27: 171 (1919). — Parentage: *Dactylorhiza* sect. *Coeloglossum* × *Gymnadenia* sect. *Gymnadenia*.

× *Dactylodenia* nothosect. *Mucudenia* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Maculatae* × *Gymnadenia* sect. *Gymnadenia*.

× *Dactylodenia* nothosect. *Mucutiana* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Maculatae* × *Gymnadenia* sect. *Praegnatiana*.

× *Dactylodenia* nothosect. *Samnadenia* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Sambucinae* × *Gymnadenia* sect. *Gymnadenia*.

Dactylorhiza Neck. ex Nevski, *Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast.* 4: 332 (1937). [11]

Dactylorhiza nothosect. *Anglossum* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Dactylorhiza* sect. *Coeloglossum*.

× *Gymnanacamptis* Asch. & Graebn., *Syn. Mitteleur. Fl.* 3: 854 (1907). [7, 8, 12]

× *Gymnanacamptis* nothosect. *Andradenia* Z.H.Feng, nothosect. nov. — Parentage: *Anacamptis* sect. *Andranthus* × *Gymnadenia* sect. *Gymnadenia*.

× *Gymnanacamptis* nothosect. *Gymorianthus* Z.H.Feng,

nothosect. nov. — Parentage: *Anacamptis* sect. *Morianthus* × *Gymnadenia* sect. *Gymnadenia*.

× *Orchidactylorhiza* So ó & Borsos, Ann. Univ. Sci. Buda-pest. Rolando E ötv ös, Sect. Biol. 8: 315, 317 (1966). [7, 8, 11]

× *Orchidactylorhiza* nothosect. *Anthrofoliae* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Orchis* sect. *Anthropophorae*.

× *Orchidactylorhiza* nothosect. *Orchifoliae* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Angustifoliae* × *Orchis* sect. *Orchis*.

× *Orchidactylorhiza* nothosect. *Samasculae* Z.H.Feng, nothosect. nov. — Parentage: *Dactylorhiza* sect. *Sambucinae* × *Orchis* sect. *Masculae*.

× *Orchigymnadenia* E.G.Camus, J. Bot. (Morot) 6: 479 (1892). [6, 8, 12]

× *Orchigymnadenia* nothosubgen. *Madenia* Z.H.Feng, nothosubgen. nov. — Parentage: *Gymnadenia* subgen. *Gymnadenia* × *Orchis* subgen. *Masculae*.

× *Orchigymnadenia* nothosect. *Madenia* Z.H.Feng, nothosect. nov. — Parentage: *Gymnadenia* sect. *Gymnadenia* × *Orchis* sect. *Masculae*.

× *Orchimantoglossum* Asch. & Graebn., Syn. Mitteleur. Fl. 3: 799 (1907) [6, 12]

× *Orchimantoglossum* nothosubgen. *Barlorchis* (Kalop. & Constantin.) Z.H.Feng, comb. & stat. nov. — Basionym: × *Barlorchis* Kalop. & Constantin., Mitteilungsbl. Arbeitskreis Heimische Orchid. Baden-W ürttemberg 25(4): 492 (1993). — Parentage: *Himantoglossum* subgen. *Barlia* × *Orchis* subgen. *Orchis*.

× *Orchimantoglossum* nothosect. *Barlitalicae* Z.H.Feng, nothosect. nov. — Parentage: *Himantoglossum* subgen. *Barlia* × *Orchis* sect. *Italicae*.

× *Orchimantoglossum* nothosect. *Barropophorae* Z.H.Feng, nothosect. nov. — Parentage: *Himantoglossum* subgen. *Barlia* × *Orchis* sect. *Anthropophorae*.

Paphiopedilum Pfitzer, Morph. Stud. Orchideenbl. 11 (1886). [13-16]

Paphiopedilum nothosubgen. *Brachypaphiopedilum* Z.H.Feng, nothosubgen. nov. — Parentage: *Paphiopedilum* subgen. *Brachypetalum* × *Paphiopedilum* subgen. *Paphiopedilum*.

Paphiopedilum nothosect. *Brachybarbata* Z.H.Feng, nothosect. nov. — Parentage: *Paphiopedilum* subgen. *Brachypetalum* × *Paphiopedilum* sect. *Barbata*.

Paphiopedilum nothosect. *Brachycoryopedilum* Z.H.Feng, nothosect. nov. — Parentage: *Paphiopedilum* subgen. *Brachypetalum* × *Paphiopedilum* sect. *Coryopedilum*.

Paphiopedilum nothosect. *Brachypaphiobata* Z.H.Feng, nothosect. nov. — Parentage: *Paphiopedilum* subgen. *Brachypetalum* × *Paphiopedilum* sect. *Barbata* × *Paphiopedilum* sect. *Paphiopedilum*.

Paphiopedilum nothosect. *Cophiopedilum* Z.H.Feng, nothosect. nov. — Parentage: *Paphiopedilum* sect. *Coryopedilum* × *Paphiopedilum* sect. *Paphiopedilum*.

Phalaenopsis Blume, Bijdr. Fl. Ned. Ind. 7: 294 (1825). [17]

Phalaenopsis nothosect. *Polychilopsis* Z.H.Feng, nothosect. nov. — Parentage: *Phalaenopsis* sect. *Phalaenopsis* × *Phalaenopsis* sect. *Polychilos*.

Ranunculaceae

Pulsatilla Mill., Gard. Dict. Abr., ed. 4. [unpaged] (1754). [18]

Pulsatilla nothosubgen. *Preotilla* Z.H.Feng, nothosubgen. nov. — Parentage: *Pulsatilla* subgen. *Preonanthus* (DC.) Zai-kov & Shmakov × *Pulsatilla* subgen. *Pulsatilla*.

Remarks: The nothosubgeneric name first published by Feng [19] is invalid because one of its parentage is invalidly published, the name is here validated by providing legitimate parentage.

Pulsatilla nothosect. *Veranthus* Z.H.Feng, nothosect. nov. — Parentage: *Pulsatilla* sect. *Preonanthus* × *Pulsatilla* sect. *Vernales*.

Pulsatilla nothosect. *Versatilla* Z.H.Feng, nothosect. nov. — Parentage: *Pulsatilla* sect. *Pulsatilla* × *Pulsatilla* sect. *Vernales*.

Pulsatilla nothosubsect. *Patenses* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* sect. *Patentes* × *Pulsatilla* subsect. *Pratenses*.

Pulsatilla nothosubsect. *Pratilla* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* subsect. *Pratenses* × *Pulsatilla* subsect. *Pulsatilla*.

Pulsatilla nothosubsect. *Preotenses* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* sect. *Preonanthus* × *Pulsatilla* subsect. *Pratenses*.

Pulsatilla nothosubsect. *Preotilla* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* sect. *Preonanthus* × *Pulsatilla* subsect. *Pulsatilla*.

Pulsatilla nothosubsect. *Vernatilla* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* sect. *Vernales* × *Pulsatilla* subsect. *Pulsatilla*.

Pulsatilla nothosubsect. *Vertenses* Z.H.Feng, nothosubsect. nov. — Parentage: *Pulsatilla* sect. *Vernales* × *Pulsatilla* subsect. *Pratenses*.

2.3. Nomenclatural Novelties at Specific Level

Aizoaceae [20]

× *Delosphyllum schickii* (Poind.) Z.H.Feng, comb. nov. — Basionym: *Mesembryanthemum* × *schickii* Poind., Cact. Succ. J. (Los Angeles) 6: 51 (1934). — Parentage: *Glottiphyllum linguiforme* × *Delosperma echinatum*.

Amaranthaceae

× *Osteolaena caput-casuarii* (J.H.Willis) Z.H.Feng, comb. nov. — Basionym: *Bassia* × *caput-casuarii* J.H.Willis, Vict. Naturalist 73: 153 (1957). — Parentage: *Osteocarpum acropterum* × *Sclerolaena divaricata*.

Amaryllidaceae [21-23]

Narcissus × *jalamensis* (Patino, Urrutia & J.Valencia) Z.H.Feng, stat. nov. — Basionym: *Narcissus* × *brevitubulosus* nothosubsp. *jalamensis* Patino, Urrutia & J.Valencia, Fl.

Montiber. 85: 47 (2023). — Parentage: *Narcissus bulbocodium* × *Narcissus minor*.

Narcissus × *saenzii* (Fern.Casas) Z.H.Feng, stat. nov. — Basionym: *Narcissus* × *alejandrei* nothovar. *saenzii* Fern.Casas, Fontqueria 57(26): 119 (2021). — Parentage: *Narcissus gigas* × *Narcissus jacetanus*.

Urceolina × *stevensii* (N.E.Br.) Z.H.Feng, comb. nov. — Basionym: *Eucharis* × *stevensii* N.E.Br., Gard. Chron., ser. 3, 7: 640 (1890). — Parentage: *Urceolina candida* × *Urceolina sanderi*.

Apocynaceae [24]

Araujia × *intermedia* (T.Mey.) Z.H.Feng, comb. nov. — Basionym: *Morrenia* × *intermedia* T.Mey., Lilloa 23: 51 (1950). — Parentage: *Araujia brachystephana* × *Araujia odorata*.

× *Brachypelia nolae-carriae* (P.V.Heath) Z.H.Feng, comb. nov. — Basionym: × *Brachystemon nolae-carriae* P.V.Heath, Calyx 1(1): 20 (1992). — Parentage: *Brachystelma barberae* × *Stapelia similis*.

× *Huernivalia anemoniflora* (Deflers) Z.H.Feng, comb. nov. — Basionym: *Stapelia* × *anemoniflora* Deflers, Bull. Soc. Bot. France 43: 118 (1896). — Parentage: *Duvalia sulata* × *Huernia macrocarpa*.

Plumeria × *angustissima* (Urb.) Z.H.Feng, stat. nov. — Basionym: *Plumeria* × *stenopetala* nothovar. *angustissima* Urb., Ark. Bot. 17(7): 50 (1921). — Parentage: *Plumeria sericifolia* × *Plumeria subsessilis*.

Stapelia × *prostratiflora* (L.C.Leach) Z.H.Feng, stat. nov. — Basionym: *Stapelia erectiflora* var. *prostratiflora* L.C.Leach, S. African J. Bot. 3: 178 (1984). — Parentage: *Stapelia erectiflora* × *Stapelia glanduliflora*.

Asteraceae [6]

× *Chrysania konoana* (Makino) Z.H.Feng, comb. nov. — Basionym: *Chrysanthemum* × *konoanum* Makino, J. Jap. Bot. 2: 18 (1921). — Parentage: *Ajania pallasiana* × *Chrysanthemum makinoi*.

× *Chrysania marginata* (Miq.) Z.H.Feng, comb. nov. — Basionym: *Pyrethrum marginatum* Miq., Fl. Ned. Ind. 2(1): 85 (1856). — Parentage: *Ajania pacifica* × [*Chrysanthemum* × *morifolium*].

× *Chrysania todaiensis* (H.Ohashi & Yonek.) Z.H.Feng, comb. nov. — Basionym: *Chrysanthemum* × *todaiense* H.Ohashi & Yonek., J. Jap. Bot. 79: 192 (2004). — Parentage: *Ajania rupestris* × *Chrysanthemum makinoi*.

× *Cicuca favratii* (Wilczek) Z.H.Feng, comb. nov. — Basionym: *Cicerbita favratii* Wilczek, Bull. Soc. Vaud. 51: 333 (1917). — Parentage: *Cicerbita alpina* × *Lactuca plumieri*.

× *Ozodes purdiei* (Petrie) Z.H.Feng, comb. nov. — Basionym: *Helichrysum purdiei* Petrie, Trans. & Proc. New Zealand Inst. 22: 440 (1890). — Parentage: *Anaphalioides bellid-ioides* × *Ozothamnus glomeratus*.

Pericallis × *andersonii* (Pépin) Z.H.Feng, comb. nov. — Basionym: *Cineraria* × *andersonii* Pépin, Ann. Fl. Pomone 5: 284 (1837). — Parentage: *Pericallis aurita* × *Pericallis cruenta*.

Pilosella × *astrotricha* (Nägeli & Peter) Z.H.Feng, comb. & stat. nov. — Basionym: *Hieracium pilosella* subsp. *astrotrichum* Nägeli & Peter, Hierac. Mitt.-Eur. 1: 171 (1885). — Parentage: *Pilosella schultesii* × *Pilosella velutina*.

× *Psepaurea hybridus* (Heydt) Z.H.Feng, comb. nov. — Basionym: × *Centaureopappus hybridus* Heydt, Möller's Deutsche Gärtn.-Zeitung 47: 166 (1932). — Parentage: *Centaurea orientalis* × *Psephellus pulcherrimus*.

Ptilostemon × *sprengeri* (Wittm.) Z.H.Feng, comb. nov. — Basionym: *Chamaepeuce* × *sprengeri* Wittm., Gart.-Zeitung (Berlin) 1: 439 (1882). — Parentage: *Ptilostemon casabonae* × *Ptilostemon diacantha*.

Berberidaceae [25]

Berberis × *emeiensis* (J.M.H.Shaw) Z.H.Feng, comb. nov. — Basionym: *Mahonia* × *emeiensis* J.M.H.Shaw, Plantsman, n.s., 10: 46 (2011). — Parentage: *Berberis gracilipes* × *Berberis schochii*.

Berberis × *lindsayi* (Yeo) Z.H.Feng, comb. nov. — Basionym: *Mahonia* × *lindsayi* Yeo, J. Roy. Hort. Soc. 97: 38 (1972). — Parentage: *Berberis japonica* × *Berberis napaulensis*.

Berberis × *savilliana* (J.M.H.Shaw) Z.H.Feng, comb. nov. — Basionym: *Mahonia* × *savilliana* J.M.H.Shaw, Plantsman, n.s., 10: 46 (2011). — Parentage: *Berberis eurybracteata* × *Berberis gracilipes*.

Berberis × *wagneri* (Jouin) Z.H.Feng, comb. & stat. nov. — Basionym: *Mahonia pinnata* var. *wagneri* Jouin, Mitt. Deutsch. Dendrol. Ges. 1910: 90 (1910). — Parentage: *Berberis aquifolia* × *Berberis pinnata*.

Boraginaceae

Moltkia × *froebelii* (Sünd.) Z.H.Feng, comb. nov. — Basionym: *Lithospermum* × *froebelii* Sünd., Allg. Bot. Z. Syst. 12: 92 (1906). — Parentage: *Moltkia petraea* × *Moltkia suffruticosa*.

Cactaceae [26, 27]

Turbinicarpus × *amoenulus* nothosubsp. *calvescens* (Halda & Panar.) Z.H.Feng, comb. & stat. nov. — Basionym: *Turbinicarpus* × *calvescens* Halda & Panar., Acta Mus. Richnov., Sect. Nat. 10(2): 167 (2003). — Parentage: *Turbinicarpus pseudopectinatus* × *Turbinicarpus schmiedickeanus* subsp. *jauernigii*.

Turbinicarpus schmiedickeanus nothosubsp. *anosmus* (Halda & Panar.) Z.H.Feng, comb. & stat. nov. — Basionym: *Turbinicarpus* × *anosmus* Halda & Panar., Acta Mus. Richnov., Sect. Nat. 10(2): 163 (2003). — Parentage: *Turbinicarpus schmiedickeanus* subsp. *andersonii* × *Turbinicarpus schmiedickeanus* subsp. *bonatzii*.

× *Turdenicarpus dubeniorum* (Halda, Kracík & Malina) Z.H.Feng, comb. nov. — Basionym: *Turbinicarpus* × *dubeniorum* Halda, Kracík & Malina, Acta Mus. Richnov., Sect. Nat. 9(1): 75 (2002). — Parentage: *Kadenicarpus pseudomacrole* × *Turbinicarpus alonsoi*.

Crassulaceae [28]

Aeonium × *extinctum* (P.V.Heath) Z.H.Feng, comb. nov. — Basionym: × *Greenonium extinctum* P.V.Heath, Calyx 2(2):

59 (1992). — Parentage: *Aeonium aureum* × *Aeonium glutinosum*.

Aeonium × *lajense* (O.Arango) Z.H.Feng, comb. nov. — Basionym: × *Greenonium lajense* O.Arango, Collect. Bot. (Barcelona) 42(e008): 12 (2023). — Parentage: *Aeonium aureum* × *Aeonium saundersii*.

Cupressaceae [3]

Hesperocyparis × *symbolica* (Maerki) Z.H.Feng, comb. nov. — Basionym: *Cupressus* × *symbolica* Maerki, Bull. Cupressus Conservation Proj. 4(2): 79 (2015). — Parentage: *Hesperocyparis glabra* × *Hesperocyparis lusitanica*.

Cyperaceae [29]

Carex × *flatbergii* Z.H.Feng, nom. nov. — Replaced synonym: *Carex* × *lidii* Flatberg, Norweg. J. Bot. 19(2): 93 (1972), non *Carex* × *lidii* Hadač, Stud. Bot. Čech. 5: 2 (1942). — Parentage: *Carex canescens* × *Carex chordorrhiza*.

Carex × *tablelandica* Z.H.Feng, nom. nov. — Replaced synonym: *Carex* × *elator* (K.ük.) K.A.Ford, New Zealand J. Bot. 63(5): 2768 (2025), non *Carex elator* Boeckeler, Abh. Naturwiss. Vereins Bremen 7: 41 (1880). — Basionym: *Carex kirkii* var. *elator* K.ük., Man. New Zealand Fl. 811 (1906). — Parentage: *Carex ambita* × *Carex trachycarpa*.

Equisetaceae [30]

Equisetum × *nipponicum* (Lubienski) Z.H.Feng, stat. nov. — Basionym: *Equisetum moorei* nothosubsp. *nipponicum* Lubienski, Fern Gaz. 21(8): 474 (2022). — Parentage: *Equisetum praealtum* × *Equisetum ramosissimum*.

Ericaceae

Arctous × *victorinii* (Roll.-Germ.) Z.H.Feng, comb. nov. — Basionym: *Arctostaphylos* × *victorinii* Roll.-Germ., Fl. Anticosti-Minganie: 463 (1969). — Parentage: *Arctous alpinus* × *Arctous ruber*.

Gaultheria × *rupicoloides* (C.K.Schneid.) Z.H.Feng, comb. nov. — Basionym: *Pernettya rupicoloides* C.K.Schneid., Ill. Handb. Laubholzk. [C.K.Schneider] 2: 540 (1911). — Parentage: *Gaultheria mucronata* × *Gaultheria myrsinoides*.

Fabaceae

× *Astoxytropis arnaudii* (Petitm.) Z.H.Feng & K.W.Jiang, comb. nov. — Basionym: *Oxytropis* × *arnaudii* Petitm., Monde Pl. Rev. Mens. Bot. 7: 16 (1897). — Parentage: *Astragalus alpinus* × *Oxytropis helvetica*.

Chamaecytisus × *semerenkoanus* (Sennikov & Val.N.Tikhom.) Z.H.Feng & K.W.Jiang, comb. nov. — Basionym: *Cytisus* × *semerenkoanus* Sennikov & Val.N.Tikhom., PhytoKeys 238: 173 (2024). — Parentage: *Chamaecytisus elongatus* × *Chamaecytisus ruthenicus*.

Chamaecytisus × *vadasii* (J.Wagner) Z.H.Feng & K.W.Jiang, comb. nov. — Basionym: *Cytisus* × *vadasii* J.Wagner, Magyar Bot. Lapok 14: 78 (1915). — Parentage: *Chamaecytisus austriacus* × *Chamaecytisus ratisbonensis*.

Lotus × *bicknellianus* (A.Berger & Dinter) Z.H.Feng & K.W.Jiang, comb. nov. — Basionym: *Dorycnium* × *bicknellianum* A.Berger & Dinter, Bull. Soc. Bot. Ital. 1910: 137 (1910). — Parentage: *Lotus dorycnium* × *Lotus hirsutus*.

Medicago × *elmaluensis* (Širj.) Z.H.Feng & K.W.Jiang,

comb. nov. — Basionym: *Trigonella* × *elmaluensis* Širj., Spisy Přír. Fak. Masarykovy Univ. 136: 31 (1931). — Parentage: *Medicago crassipes* × *Medicago monspeliaca*.

Gesneriaceae [31]

× *Eucongia multiflora* (Veitch ex J.Dix) Z.H.Feng, comb. nov. — Basionym: *Stenogastra* × *multiflora* Veitch ex J.Dix, Proc. Roy. Hort. Soc. London 2: 373 (1862). — Parentage: *Eucodonia verticillata* × *Sinningia concinna*.

Ramonda × *jurasekii* (Halda) Z.H.Feng, comb. nov. — Basionym: × *Jankaemonda jurasekii* Halda, Acta Mus. Richnov., Sect. Nat. 19(3-4): 50 (2012). — Parentage: *Ramonda heldreichii* × *Ramonda serbica*.

Ramonda × *stibicii* (Halda) Z.H.Feng, comb. nov. — Basionym: × *Jankaemonda stibicii* Halda, Acta Mus. Richnov., Sect. Nat. 19(3-4): 50 (2012). — Parentage: *Ramonda heldreichii* × *Ramonda nathaliae*.

Ramonda × *vandedemii* (Halda) Z.H.Feng, comb. nov. — Basionym: × *Jankaemonda vandedemii* Halda, Preslia 51(4): 375 (1979). — Parentage: *Ramonda heldreichii* × *Ramonda myconi*.

Iridaceae

Iris × *catharinae* (D.Dubovik) Z.H.Feng, comb. nov. — Basionym: *Iridodictyum* × *catharinae* D.Dubovik, Fl. Belarusi 3: 209 (2017). — Parentage: *Iris histrioides* × *Iris winogradowii*.

Iris × *georgiae* (D.Dubovik) Z.H.Feng, comb. nov. — Basionym: *Iridodictyum* × *georgiae* D.Dubovik, Fl. Belarusi 3: 210 (2017). — Parentage: *Iris histrioides* × *Iris reticulata*.

Iris × *grodnensis* (D.Dubovik) Z.H.Feng, comb. nov. — Basionym: *Juno* × *grodnensis* D.Dubovik, Fl. Belarusi 3: 228 (2017). — Parentage: *Iris bucharica* × *Iris graeberiana*.

Lamiaceae

Micromeria × *tenerifolia* (R.H.Willemse) Z.H.Feng, comb. nov. — Basionym: *Satureja* × *tenerifolia* R.H.Willemse, Willdenowia 21(1-2): 81 (1991). — Parentage: *Micromeria hysopifolia* × *Micromeria teneriffae*.

Micromeria × *tenevaria* (R.H.Willemse) Z.H.Feng, comb. nov. — Basionym: *Satureja* × *tenevaria* R.H.Willemse, Willdenowia 21(1-2): 81 (1991). — Parentage: *Micromeria teneriffae* × *Micromeria varia*.

Marantaceae

Calathea × *helenae* (Carrière) Z.H.Feng, comb. nov. — Basionym: *Maranta* × *helenae* Carrière, Rev. Hort. (Paris) 51: 20 (1879). — Parentage: *Calathea eximia* × *Calathea picturata*.

Melanthiaceae

× *Pseudillium crockerianum* (Halda) Z.H.Feng, comb. nov. — Basionym: *Trillium* × *crockerianum* Halda, Acta Mus. Richnov., Sect. Nat. 6(3): 234 (1999). — Parentage: *Pseudotrillium rivale* × *Trillium ovatum*. — Heterotypic synonym: *Trillium* × *klineanum* Halda, Acta Mus. Richnov., Sect. Nat. 6(3): 234 (1999), syn. nov.

Orchidaceae [32, 33]

× *Anacamptorchis bonnieriana* (E.G.Camus) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: *Orchis* × *bonnieriana*

E.G.Camus, J. Bot. (Morot) 6: 416 (1892). — Parentage: *Anacamptis palustris* × *Orchis militaris*.

× *Batepalum ballii* (Rolfe) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: *Zygopetalum ballii* Rolfe, Gard. Chron. ser. 3, 27: 149 (1900). — Parentage: *Batemannia colleyi* × *Zygosepalum lindeniae*.

Cattleya × *andreana* (Maron) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya andreana* Maron, Rev. Hort. (Paris) 67: 401 (1895). — Parentage: *Cattleya bicolor* × [*Cattleya* × *elegans*].

Cattleya × *aurora* (Rolfe) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya aurora* Rolfe, Gard. Chron. ser. 3, 6: 380 (1889). — Parentage: *Cattleya bicalhoi* × *Cattleya loddigesii*.

Cattleya × *batemanniana* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *batemanniana* Rchb.f., Gard. Chron. n.s., 26: 263 (1886). — Parentage: *Cattleya coccinea* × *Cattleya intermedia*.

Cattleya × *bella* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *bella* Rchb.f., Gard. Chron. n.s., 21: 174 (1884). — Parentage: *Cattleya labiata* × *Cattleya purpurata*. — Heterotypic synonym: × *Laeliocattleya arnoldiana* Rolfe, J. Orchidées 2: 134 (1891), syn. nov.

Cattleya × *broomfieldensis* (Mast.) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya broomfieldensis* Mast., J. Orchidées 2: 134 (1891). — Parentage: *Cattleya dowiana* × *Cattleya praestans*.

Cattleya × *callistoglossa* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *callistoglossa* Rchb.f., Gard. Chron. n.s., 17: 76 (1882). — Parentage: *Cattleya coccinea* × *Cattleya harrisoniana*. — Heterotypic synonym: × *Sophrocattleya calypso* Rolfe, Gard. Chron., ser. 3, 8: 588 (1890), syn. nov.

Cattleya × *caloglossa* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *caloglossa* Rchb.f., Gard. Chron. n.s., 7: 202 (1877). — Parentage: *Cattleya labiata* × *Cattleya lobata*.

Cattleya × *canhamiana* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *canhamiana* Rchb.f., Gard. Chron. n.s., 24: 6 (1885). — Parentage: *Cattleya mossiae* × *Cattleya purpurata*.

Cattleya × *cappei* (Anon.) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya cappei* Anon., Orchid Rev. 7: 46 (1899). — Parentage: *Cattleya cinnabarina* × *Cattleya warscewiczii*.

Cattleya × *cassiope* (Rolfe) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya cassiope* Rolfe, Gard. Chron., ser. 3, 6: 620 (1889). — Parentage: [*Cattleya* × *exoniensis*] × *Cattleya pumila*.

Cattleya × *decia* (Mast.) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya decia* Mast., Gard. Chron., ser. 3, 16: 699 (1894). — Parentage: *Cattleya dowiana* × *Cattleya perrinii*.

Cattleya × *euterpe* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *euterpe* Rchb.f., Gard. Chron. ser. 3, 4: 533 (1888). — Parentage: *Cattleya bicalhoi* × *Cattleya crispa*.

Cattleya × *haroldiana* (Jekyll & E.T.Cook) Z.H.Feng,

comb. nov. — Basionym: × *Laeliocattleya haroldiana* Jekyll & E.T.Cook, Garden (London, 1871-1927) 60: 158 (1901). — Parentage: *Cattleya dowiana* × *Cattleya tenebrosa* × *Cattleya warscewiczii*.

Cattleya × *jacobiana* (Truff.) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya jacobiana* Truff., Rev. Hort. (Paris) 67: 359 (1895). — Parentage: *Cattleya mendelii* × *Cattleya purpurata*.

Cattleya × *juvenilis* (Bleu) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *juvenilis* Bleu, J. Orchidées 1: 230 (1890). — Parentage: *Cattleya perrinii* × *Cattleya pumila*.

Cattleya × *kadina* (W.H.Cox) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya kadina* W.H.Cox, Orchid Rev. 29: 98 (1921). — Parentage: [*Cattleya* × *elegans*] × *Cattleya labiata*.

Cattleya × *laeta* (Mast.) Z.H.Feng, comb. nov. — Basionym: × *Sophrocattleya laeta* Mart., Gard. Chron. ser. 3, 16: 476 (1894). — Parentage: *Cattleya bicalhoi* × *Cattleya coccinea*.

Cattleya × *maynardii* (Sander ex Carrière & André) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya maynardii* Sander ex Carrière & André Rev. Hort. (Paris) 65: 294 (1893). — Parentage: *Cattleya bicalhoi* × *Cattleya loddigesii* × *Cattleya walkeriana*.

Cattleya × *mylamiana* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *mylamiana* Rchb.f., Gard. Chron. n.s., 6: 740 (1876). — Parentage: *Cattleya crispa* × *Cattleya granulosa*.

Cattleya × *ochracea* (Grignan) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya ochracea* Grignan, Jardin 15: 7 (1901). — Parentage: *Cattleya harpophylla* × [*Cattleya* × *sallieri*].

Cattleya × *oweniae* (L.Linden) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *oweniae* L.Linden, Lindenia 8: 79 (1892). — Parentage: [*Cattleya* × *elegans*] × *Cattleya perrinii*.

Cattleya × *philbrickiana* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *philbrickiana* Rchb.f., Gard. Chron. n.s., 12: 102 (1879). — Parentage: *Cattleya aclandiae* × *Cattleya purpurata* × *Cattleya tigrina*.

Cattleya × *phoebe* (O'Brien) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya phoebe* O'Brien, Gard. Chron., ser. 3, 11: 791 (1892). — Parentage: *Cattleya mossiae* × *Cattleya purpurata*.

Cattleya × *proserpini* (Rolfe ex B.S.Williams) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya proserpini* Rolfe ex B.S.Williams, Orch.-Grow. Man., ed. 7: 461 (1893). — Parentage: *Cattleya bicalhoi* × *Cattleya velutina*.

Cattleya × *sallieri* (Maron) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya sallieri* Maron, Rev. Hort. (Paris) 67: 511 (1895). — Parentage: *Cattleya loddigesii* × *Cattleya purpurata*.

Cattleya × *sedenii* (Maron) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *sedenii* Rchb.f., Gard. Chron. n.s., 8: 424 (1877). — Parentage: [*Cattleya* × *elegans*] × *Cattleya violacea*.

Cattleya × *stella* (Rolfe) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya stella* Rolfe, Gard. Chron., ser. 3, 6: 322 (1889). — Parentage: *Cattleya crispa* × *Cattleya purpurata* × *Cattleya tigrina*.

Cattleya × *timora* (N.E. Br.) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *timora* N.E.Br., Gard. Chron., ser. 3, 2: 428 (1887). — Parentage: *Cattleya bicalhoi* × *Cattleya lueddemanniana*.

Cattleya × *vitellina* (O'Brien) Z.H.Feng, comb. nov. — Basionym: *Laelia* × *vitellina* O'Brien, Gard. Chron., ser. 3, 13: 365 (1893). — Parentage: *Cattleya harpophylla* × *Cattleya perrinii*.

Cymbidium × *fowlerae* (Schltr.) Z.H.Feng, comb. nov. — Basionym: *Cyperorchis* × *fowlerae* Schltr., Repert. Spec. Nov. Regni Veg. 20: 108 (1924). — Parentage: *Cymbidium elegans* × *Cymbidium iridioides*.

× *Dactyloдения alto-ovirensis* (Jakely & Könighofer) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: × *Dactylitella alto-ovirensis* Jakely & Könighofer, Ber. Arbeitskreis. Heimische Orchid. 35(1): 216 (2018). — Parentage: *Dactylorhiza fuchsii* × *Gymnadenia lithopolitana*.

Dactylorhiza × *mithridateia* J.M.H.Shaw & Z.H.Feng, nom. nov. — Replaced synonym: × *Dactyloglossum ponticum* Kohlmüller, Ber. Arbeitskreis. Heimische Orchid. 16(1): 74 (1999), non *Dactylorhiza pontica* (H.Fleischm. & Hand.-Mazz.) P.Delforge, Naturalistes Belges 81(4): 397 (2000). — Parentage: *Dactylorhiza urvilleana* × *Dactylorhiza viridis*.

× *Dossisia dominyi* (H.J.Veitch) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: *Goodyera* × *dominyi* H.J.Veitch, Gard. Chron. 1861: 531 (1861). — Homotypic synonym: *Dossinimaria* × *dominyi* (H.J.Veitch) Rolfe, J. Linn. Soc., Bot. 24: 170 (1888). — Parentage: *Dossinia marmorata* × *Ludisia discolor*.

× *Epilaelia hardyana* (Mast.) Z.H.Feng, comb. nov. — Basionym: × *Laeliocattleya hardyana* Mast., Gard. Chron., ser. 3, 17: 248 (1895). — Parentage: *Epidendrum ciliare* × *Laelia anceps*.

× *Galeosepalum marginatum* (Garay) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: *Zygosepalum marginatum* Garay, Revista Soc. Colomb. Orquideol. 2(3): 8 (1967). — Parentage: *Galeottia grandiflora* × *Zygosepalum lindeniae*.

× *Ludochilus dominyi* (H.J.Veitch) Z.H.Feng & J.M.H.Shaw, comb. nov. — Basionym: *Anoectochilus* × *dominyi* H.J.Veitch, Proc. Roy. Hort. Soc. London 5: 139 (1865). — Homotypic synonym: × *Anoectomaria dominyi* (H.J.Veitch) Rolfe, J. Linn. Soc., Bot. 24: 170 (1888). — Parentage: *Anoectochilus roxburghii* × *Ludisia discolor*.

Paphiopedilum × *buchananianum* (Rolfe) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *buchananianum* Rolfe, Gard. Chron. ser. 3, 7: 73 (1890). — Parentage: *Paphiopedilum druryi* × *Paphiopedilum spicerianum*.

Paphiopedilum × *deboscherianum* (Desbois) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *deboscherianum*

Desbois, Rev. Hort. Belge Étrangère 18: 6 (1892). — Parentage: *Paphiopedilum spicerianum* × *Paphiopedilum superbians*.

Paphiopedilum × *denisianum* (O'Brien) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *denisianum* O'Brien, Gard. Chron. ser. 3, 16: 118 (1894). — Parentage: [*Paphiopedilum* × *selligerum*] × *Paphiopedilum superbians*.

Paphiopedilum × *fowlerianum* (Sander) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *fowlerianum* Sander, Gard. Chron. ser. 3, 17: 337 (1895). — Parentage: *Paphiopedilum bellatulum* × [*Paphiopedilum* × *harrisianum*].

Paphiopedilum × *greyanum* (Pitcher & Manda) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *greyanum* Pitcher & Manda, Proc. Annual Conv. Soc. Amer. Florists 8: 81 (1892). — Parentage: *Paphiopedilum ciliolare* × *Paphiopedilum druryi*.

Paphiopedilum × *harrisianum* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *harrisianum* Rchb.f., Gard. Chron. 1869: 108 (1869). — Parentage: *Paphiopedilum barbatum* × *Paphiopedilum villosum*.

Paphiopedilum × *hephaestus* (A.H.Kent) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *hephaestus* A.H.Kent, Gard. Chron. ser. 3, 3: 425 (1888). — Parentage: *Paphiopedilum barbatum* × *Paphiopedilum lawrenceanum*.

Paphiopedilum × *inspirator* (Kerch.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *inspirator* Kerch., Rev. Hort. Belge Étrangère 20: 25 (1894). — Parentage: *Paphiopedilum spicerianum* × *Paphiopedilum tonsum*.

Paphiopedilum × *leda* (Mast.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *leda* Mast., Gard. Chron. ser. 3, 11: 202 (1892). — Parentage: [*Paphiopedilum* × *harrisianum*] × *Paphiopedilum venustum*.

Paphiopedilum × *leysenianum* (Desbois) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *leysenianum* Desbois, Rev. Hort. Belge Étrangère 20: 169 (1894). — Parentage: *Paphiopedilum barbatum* × *Paphiopedilum bellatulum*.

Paphiopedilum × *luridum* (Pitcher & Manda) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *luridum* Pitcher & Manda, Proc. Annual Conv. Soc. Amer. Florists 8: 81 (1892). — Parentage: *Paphiopedilum lawrenceanum* × *Paphiopedilum villosum*.

Paphiopedilum × *meirax* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *meirax* Rchb.f., Gard. Chron. n.s. 14: 524 (1880). — Parentage: *Paphiopedilum fairrieianum* × *Paphiopedilum venustum*.

Paphiopedilum × *pallas* (N.E.Br.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *pallas* N.E.Br., Gard. Chron. ser. 3, 9: 360 (1891). — Parentage: *Paphiopedilum callosum* × [*Paphiopedilum* × *calophyllum*].

Paphiopedilum × *pallens* (Pitcher & Manda) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *pallens* Pitcher & Manda, Proc. Annual Conv. Soc. Amer. Florists 8: 81 (1892). — Parentage: *Paphiopedilum dayanum* × *Paphiopedilum spicerianum*.

Paphiopedilum × *patens* (Rchb.f.) Z.H.Feng, comb. nov. —

Basionym: *Cypripedium* × *patens* Rchb.f., Gard. Chron. n.s. 8: 456 (1877). — Parentage: *Paphiopedilum barbatum* × *Paphiopedilum hookerae*.

Paphiopedilum × *pavoninum* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *pavoninum* Rchb.f., Gard. Chron. ser. 3, 3: 264 (1888). — Parentage: *Paphiopedilum venustum* × *Paphiopedilum villosum* var. *boxallii*.

Paphiopedilum × *peruzzisnum* (Recenti) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *peruzzisnum* Recenti, Bull. Soc. Tosc. Ort. ser. 4, 9: 1 (1924). — Parentage: *Paphiopedilum haynaldianum* × *Paphiopedilum spicerianum*.

Paphiopedilum × *pleistochlorum* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *pleistochlorum* Rchb.f., Gard. Chron. ser. 3, 2: 552 (1887). — Parentage: *Paphiopedilum javanicum* × *Paphiopedilum superbiens*.

Paphiopedilum × *poyntzianum* (O'Brien) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *poyntzianum* O'Brien, Gard. Chron. ser. 3, 15: 36 (1894). — Parentage: *Paphiopedilum callosum* × *Paphiopedilum hookerae*.

Paphiopedilum × *rolfei* (Jekyll & E.T.Cook) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *rolfei* Jekyll & E.T.Cook, Garden (London) 60: 158 (1901). — Parentage: *Paphiopedilum bellatulum* × *Paphiopedilum rothschildianum*.

Paphiopedilum × *selligerum* (H.J.Veitch) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *selligerum* H.J.Veitch, Gard. Chron. n.s. 3: 728 (1875). — Parentage: *Paphiopedilum barbatum* × *Paphiopedilum philippinense*.

Paphiopedilum × *thayerianum* (Sander) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *thayerianum* Sander, Gard. Chron. ser. 3, 14: 192 (1893). — Parentage: *Paphiopedilum lawrenceanum* × *Paphiopedilum villosum* var. *boxallii*.

Paphiopedilum × *triumphans* (O'Brien) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *triumphans* O'Brien, Gard. Chron. ser. 3, 15: 198 (1894). — Parentage: [*Paphiopedilum* × *harrisianum*] × [*Paphiopedilum* × *oenanthum*].

Paphiopedilum × *umlauftianum* (Sander) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *umlauftianum* Sander, Gard. Chron. ser. 3, 14: 70 (1893). — Parentage: *Paphiopedilum insigne* × *Paphiopedilum lawrenceanum*.

Paphiopedilum × *vernixium* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *vernixium* Rchb.f., Gard. Chron. n.s. 11: 398 (1879). — Parentage: *Paphiopedilum argus* × *Paphiopedilum villosum*.

Paphiopedilum × *vervaeianum* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *vervaeianum* Rchb.f., Gard. Chron. ser. 3, 3: 712 (1888). — Parentage: *Paphiopedilum lawrenceanum* × *Paphiopedilum superbiens*.

Paphiopedilum × *wellesleyanum* (H.J.Veitch) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *wellesleyanum* H.J.Veitch, Gard. Chron. ser. 3, 35: 270 (1904). — Parentage: *Paphiopedilum bellatulum* × *Paphiopedilum concolor*.

Papilionanthe × *joaquimiae* (Rolfe & Hurst) Z.H.Feng, comb. nov. — Basionym: *Vanda* × *joaquimiae* Rolfe & Hurst, Orchid Stud-Book 236 (1909). — Parentage: *Papilionanthe hookeriana* × *Papilionanthe teres*.

Phragmipedium × *finetianum* (Sander) Z.H.Feng, comb. nov. — Basionym: *Selenipedium* × *finetianum* Sander, Orchid Rev. 3: 102 (1895). — Parentage: *Phragmipedium caudatum* × [*Phragmipedium* × *sedenii*].

Phragmipedium × *nitidissimum* (Rchb.f.) Z.H.Feng, comb. nov. — Basionym: *Cypripedium* × *nitidissimum* Rchb.f., Gard. Chron. ser. 3, 4: 6 (1888). — Parentage: *Phragmipedium caricinum* × *Phragmipedium caudatum* × *Phragmipedium longifolium*.

× *Serapicampsis garriuscola* (Soca) Z.H.Feng, comb. nov. — Basionym: × *Herorchiserapias garriuscola* Soca, Carnets Bot. 265: 12 (2025). — Parentage: *Anacamptis palustris* × *Serapias vomeracea*.

Plantaginaceae

Globularia × *gomezcasaesii* (Carlón, M.La íz, Moreno Mor., Rodr.Berd. & Ó.Sánchez) Z.H.Feng, stat. nov. — Basionym: *Globularia* × *montiberica* nothosubsp. *gomezcasaesii* Carlón, M.La íz, Moreno Mor., Rodr.Berd. & Ó.Sánchez, Doc. Jard. Bot. Atlántico 10: 86 (2014). — Parentage: *Globularia repens* × *Globularia vulgaris*.

Poaceae

Puccinellia × *burdonii* (Druce) Z.H.Feng, comb. nov. — Basionym: *Glyceria* × *burdoni* Druce, Rep. Bot. Soc. Exch. Club Brit. Isles 5(1): 61 (1917). — Parentage: *Puccinellia fasciculata* × *Puccinellia maritima*.

Sporobolus × *onubensis* (Sánchez Gullón, M.D.Infante & B.Gallego) Z.H.Feng, comb. nov. — Basionym: *Spartina* × *onubensis* Sánchez Gullón, M.D.Infante & B.Gallego, Pl. Syst. Evol. 305: 544 (2019). — Parentage: *Sporobolus maritimus* × *Sporobolus montevidensis*.

× *Thinoelymus oliveri* (Druce) Z.H.Feng, comb. nov. — Basionym: *Agropyron* × *oliveri* Druce, Bot. Exch. Club Brit. Isles Rep. 3(1): 38 (1912). — Parentage: *Elymus repens* × *Thiнопyrum pycnanthum*.

Polypodiaceae [34]

Pleopeltis × *haitiensis* Z.H.Feng, nom. nov. — Replaced synonym:—*Pleopeltis* × *cuspidata* (Desv.) Boudrie, Cremers & Viane, J. Bot. Soc. Bot. France 103(1): 23 (2022), non *Pleopeltis cuspidata* C.Presl, Tent. Pterid. 193 (1836). — Basionym: *Aspidium cuspidatum* Desv., Mém. Soc. Linn. Paris 6(3): 244 (1827). — Parentage: *Pleopeltis macrocarpa* × *Pleopeltis thyssanolepis*.

Primulaceae

Evotrochis × *jenensis* (O.Schwarz) Z.H.Feng, comb. nov. — Basionym: *Primula* × *jenensis* O.Schwarz, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 21(5-6): 967 (1972). — Parentage: *Evotrochis edelbergii* × *Evotrochis verticillata*.

Ranunculaceae [35]

× *Rankwithia aconitoides* (Rouy) Z.H.Feng, comb. nov. — Basionym: *Ranunculus* × *aconitoides* Rouy, Ill. Pl. Eur. 4: 25 (1895). — Parentage: *Beckwithia glacialis* × *Ranunculus acnitifolius*.

× *Rankwithia algidus* (Brügger) Z.H.Feng, comb. nov. — Basionym: *Ranunculus* × *algidus* Brügger, Jahresber. Naturf.

Ges. Graubündens 2(23-24): 78 (1880). — Parentage: *Beckwithia glacialis* × *Ranunculus alpestris*.

Ranunculus × *udmurtiensis* Z.H.Feng, nom. nov. — Replaced synonym: *Ranunculus* × *algidus* (Kapit.) A.A.Bobrov, Phytotaxa 319(1): 23 (2017), non *Ranunculus* × *algidus* Brügger, Jahresber. Naturf. Ges. Graubündens 2(23-24): 78 (1880). — Basionym: *Batrachium algidum* Kapit., Bot. Zhurn. (Moscow & Leningrad) 91(2): 277 (2006). — Parentage: *Ranunculus kauffmannii* × *Ranunculus mongolicus*.

Rosaceae [36]

Aria × *pseudoporrigentiformis* (T.C.G.Rich & L.Houston) Z.H.Feng, comb. nov. — Basionym: *Sorbus* × *pseudoporrigentiformis* T.C.G.Rich & L.Houston, Brit. Irish Bot. 7(1): 31 (2025). — Parentage: *Aria edulis* × *Aria porrigentiformis*.

× *Tormaria kitaibeliana* (Baksay & Kárpás) Z.H.Feng, comb. nov. — Basionym: *Sorbus* × *kitaibeliana* Baksay & Kárpás, Feddes Repert. Spec. Nov. Regni Veg. 62: 297 (1960). — Parentage: *Aria danubialis* × *Torminalis glaberrima*.

Saxifragaceae

× *Mitarella grayana* (Engl.) Z.H.Feng, comb. nov. — Basionym: *Mitella* × *grayana* Engl., Nat. Pflanzenfam., ed. 2 [Engler & Prantl] 18a: 161 (1930). — Parentage: *Mitella diphylla* × *Tiarella cordifolia*.

× *Mitarella tiarelloides* (Engl.) Z.H.Feng, comb. nov. — Basionym: *Mitella* × *tiarelloides* Engl., Nat. Pflanzenfam., ed. 2 [Engler & Prantl] 18a: 161 (1930). — Parentage: *Mitella nuda* × *Tiarella cordifolia*.

2.4. Nomenclatural Novelties at Intraspecific Level

Amaryllidaceae [21, 37]

Narcissus bulbocodium nothovar. *abulensis* (Fern.Casas) Z.H.Feng, comb. & stat. nov. — Basionym: *Narcissus* × *abulensis* Fern.Casas, Fontqueria 56(52): 554 (2016). — Parentage: *Narcissus bulbocodium* var. *bulbocodium* × *Narcissus bulbocodium* var. *minor*.

Narcissus × *ernii* nothovar. *guadalupensis* (Fern.Casas) Z.H.Feng, comb. & stat. nov. — Basionym: *Narcissus* × *guadalupensis* Fern.Casas, Fontqueria 57(26): 109 (2021). — Parentage: *Narcissus bulbocodium* var. *minor* × *Narcissus triandrus* subsp. *triandrus*.

Narcissus × *jalamensis* nothosubsp. *sanabrensis* (Patino, Urrutia & J.Valencia) Z.H.Feng, comb. nov. — Basionym: *Narcissus* × *brevitubulosus* nothosubsp. *sanabrensis* Patino, Urrutia & J.Valencia, Fl. Montiber. 85: 47 (2023). — Parentage: *Narcissus bulbocodium* subsp. *quintanilhae* × *Narcissus minor*.

Apiaceae

Pimpinella saxifraga nothosubsp. *subnigra* (Tzvelev) Z.H.Feng, comb. & stat. nov. — Basionym: *Pimpinella* × *subnigra* Tzvelev, Novosti Sist. Vyssh. Rast. 33: 198 (2001). — Parentage: *Pimpinella saxifraga* subsp. *nigra* × *Pimpinella saxifraga* subsp. *saxifraga*.

Cistaceae [38]

Fumana ericoides nothosubsp. *saguntina* (Pérez Dacosta) Z.H.Feng, comb. & stat. nov. — Basionym: *Fumana* × *saguntina* Pérez Dacosta, Flora Montiber. 51: 127 (2012). — Parentage: *Fumana ericoides* subsp. *ericoides* × *Fumana ericoides* subsp. *montana*.

Helianthemum apenninum nothosubsp. *serranicum* (Mateo) Z.H.Feng, comb. & stat. nov. — Basionym: *Helianthemum* × *serranicum* Mateo, Fl. Montiber. 50: 33 (2012). — Parentage: *Helianthemum apenninum* subsp. *apenninum* × *Helianthemum apenninum* subsp. *stoechadifolium*.

Helianthemum cinereum nothosubsp. *pseudocinereum* (Pérez Dacosta & Mateo) Z.H.Feng, comb. & stat. nov. — Basionym: *Helianthemum* × *pseudocinereum* Pérez Dacosta & Mateo, Fl. Montiber. 50: 50 (2012). — Parentage: *Helianthemum cinereum* subsp. *cinereum* × *Helianthemum cinereum* subsp. *rotundifolium*.

Crassulaceae

Crassula alpestris nothosubsp. *acocksii* (P.V.Heath) Z.H.Feng, comb. & stat. nov. — Basionym: *Tetraphyle alpestris* nothovar. *acocksii* P.V.Heath, Calyx 3(3): 107 (1993). — Parentage: *Crassula alpestris* subsp. *alpestris* × *Crassula alpestris* subsp. *massonii*.

Fabaceae

Anthyllis vulneraria nothosubsp. *polyphyllodes* (Juz.) Z.H.Feng & K.W.Jiang, comb. & stat. nov. — Basionym: *Anthyllis* × *polyphyllodes* Juz., Fl. URSS 11: 276, 393 (1945). — Parentage: *Anthyllis vulneraria* subsp. *lapponica* × *Anthyllis vulneraria* subsp. *polyphylla*.

Lamiaceae

Clinopodium nepeta nothosubsp. *padureanum* (Rottenst.) Z.H.Feng, comb. & stat. nov. — Basionym: *Clinopodium* × *padureanum* Rottenst., Joannea Bot. 18: 134 (2022). — Parentage: *Clinopodium nepeta* subsp. *spruneri* × *Clinopodium nepeta* subsp. *subisodontum*.

Mentha spicata nothosubsp. *vergoereri* (Starm.) Z.H.Feng, comb. & stat. nov. — Basionym: *Mentha* × *vergoereri* Starm., Fritschiana 68: 10 (2011). — Parentage: *Mentha spicata* subsp. *condensata* × *Mentha spicata* subsp. *spicata*.

Salvia officinalis nothosubsp. *albaladejitoi* (G.Ortiz, Herráz, Garcá Cardo, Melero & Raúl Sánchez) Z.H.Feng, comb. nov. — Basionym: *Salvia* × *accidentalis* nothosubsp. *albaladejitoi* G.Ortiz, Herráz, Garcá Cardo, Melero & Raúl Sánchez, Fl. Montiber. 87: 68 (2023). — Parentage: *Salvia officinalis* subsp. *lavandulifolia* × *Salvia officinalis* subsp. *officinalis*.

Orchidaceae [39, 40]

× *Anacamptorchis paschae* nothosubsp. *cretensis* J.M.H.Shaw & Z.H.Feng, nom. nov. — Replaced synonym: *Orchis* × *paschae* Hautz., Ann. Naturhist. Mus. Wien 81: 69 (1978). — Parentage: *Anacamptis collina* × *Orchis spitzelii* subsp. *nitidifolia*.

Dactylorhiza × *braunii* nothosubsp. *robustior* (Hartm.) Z.H.Feng, comb. & stat. nov. — Basionym: *Orchis latifolia* var. *robustior* Hartm., Handb. Skand. Fl. [ed. 3] 204 (1838). — Parentage: *Dactylorhiza fuchsii* × *Dactylorhiza majalis*

subsp. *elator*.

Dactylorhiza × *duffiana* nothosubsp. *kuuskiae* (E.Breiner & R.Breiner) Z.H.Feng, comb. & stat. nov. — Basionym: *Dactylorhiza* × *kuuskiae* E.Breiner & R.Breiner, Ber. Arbeitskreis. Heimische Orchid. 15(2): 34 (1998). — Parentage: *Dactylorhiza lapponica* × *Dactylorhiza majalis* subsp. *baltica*.

Epipactis helleborine nothosubsp. *soguksuensis* (Kreutz) Z.H.Feng, comb. & stat. nov. — Basionym: *Epipactis* × *soguksuensis* Kreutz, Eurorchis 9: 7 (1997). — Parentage: *Epipactis helleborine* subsp. *helleborine* × *Epipactis helleborine* subsp. *tremolsii*.

Epipactis × *schmalhauseni* nothosubsp. *gauckleri* (J.Weigelt & Riech.) Z.H.Feng & J.M.H. Shaw, comb. & stat. nov. — Basionym: *Epipactis* × *gauckleri* J.Weigelt & Riech., Ber. Arbeitskreis. Heimische Orchid. 19(1): 114, 112 (2002). — Parentage: *Epipactis atrorubens* × *Epipactis helleborine* subsp. *orbicularis*.

Epipactis × *stephensonii* nothosubsp. *lachmanii* (Lachmair) Z.H.Feng & J.M.H. Shaw, comb. & stat. nov. — Basionym: *Epipactis* × *lachmanii* Lachmair, Stapfia 112: 91 (2021). — Parentage: *Epipactis helleborine* subsp. *orbicularis* × *Epipactis leptochila* subsp. *neglecta*.

Ophrys × *albertiana* nothosubsp. *angiullii* (D'Alonzo) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *angiullii* D'Alonzo, GIROS Orch. Spont. Eur. 67(2): 154 (2024). — Parentage: *Ophrys apifera* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys × *apicula* nothosubsp. *alejandrei* (Benito) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *alejandrei* Benito, Estud. Mus. Cienc. Nat. Álava 23: 57 (2011). — Parentage: *Ophrys insectifera* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *apicula* nothosubsp. *barbieriarum* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *barbieriarum* Romolini & Soca, GIROS Orch. Spont. Eur. 58: 380 (2015). — Parentage: *Ophrys insectifera* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *apicula* nothosubsp. *rasinii* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *rasinii* Soca, J. Eur. Orch. 49: 379 (2017). — Parentage: *Ophrys insectifera* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys × *arachnitiformis* nothosubsp. *broeckii* (A.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *broeckii* A.Camus, Rivièra Sci. 11: 60 (1924). — Parentage: *Ophrys holosericea* × *Ophrys sphegodes* subsp. *araneola* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys × *arachnitiformis* nothosubsp. *buffaloriae* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *buffaloriae* Romolini & Soca, GIROS Notiz. 55: 57 (2014). — Parentage: *Ophrys holosericea* subsp. *parvimaclata* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *carnazzae* (Galesi) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *carnazzae* Galesi, J. Eur. Orch. 31: 309 (1999). — Parentage: *Ophrys holosericea* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *centomoi* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *centomoi* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 64: 68 (2021). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *arachnitiformis* nothosubsp. *coturii* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *coturii* Romolini & Soca, GIROS Notiz. 55: 56 (2014). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *arachnitiformis* nothosubsp. *coulotii* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *coulotii* Soca, Monde Pl. 91: 15 (1997). — Parentage: *Ophrys holosericea* subsp. *parvimaclata* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *arachnitiformis* nothosubsp. *daissiorum* (H.Baumann, Giotta, Künkele, R.Lorenz & Piccitto) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *maladroxiensis* nothosubsp. *daissiorum* H.Baumann, Giotta, Künkele, R.Lorenz & Piccitto, J. Eur. Orch. 27: 223 (1995). — Parentage: *Ophrys holosericea* subsp. *chestermanii* × *Ophrys holosericea* subsp. *holosericea* × *Ophrys sphegodes*.

Ophrys × *arachnitiformis* nothosubsp. *difonzoi* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *difonzoi* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 59: 300 (2016). — Parentage: *Ophrys holosericea* subsp. *parvimaclata* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys × *arachnitiformis* nothosubsp. *francinae* (Bianco, Medagli, D'Emerico & Ruggiero) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *francinae* Bianco, Medagli, D'Emerico & Ruggiero, Webbia 42: 168 (1988). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *gelana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *gelana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 492 (1986). — Parentage: *Ophrys holosericea* subsp. *oxyrrhynchos* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *ingaranensis* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *ingaranensis* Soca, Monde Pl. 91: 18 (1997). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys holosericea* subsp. *parvimaclata* × *Ophrys sphegodes*.

Ophrys × *arachnitiformis* nothosubsp. *kelleri* (Godfery) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *kelleri* Godfery, J. Bot. 53: 121 (1915). — Parentage: *Ophrys holosericea* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys × *arachnitiformis* nothosubsp. *larissae* (Benigni, Barigelli & Petroselli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *larissae* Benigni, Barigelli & Petroselli, GIROS Orch. Spont. Eur. 65: 5 (2022). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *arachnitiformis* nothosubsp. *mangiagessoi* (Cataldo & S.A.Giardina) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *mangiagessoi* Cataldo & S.A.Giardina, J. Eur. Orch. 43: 792 (2011). — Parentage: *Ophrys holosericea* subsp. *biancae* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *arachnitiformis* nothosubsp. *marianoi* (Licheri & Napoli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *marianoi* Licheri & Napoli, GIROS Orch. Spont. Eur. 68(1): 87 (2025). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *martorinae* (Galesi) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *martorinae* Galesi, J. Eur. Orch. 31: 313 (1999). — Parentage: *Ophrys holosericea* subsp. *biancae* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *montis-lorae* (Giotto & Piccitto) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *montis-lorae* Giotto & Piccitto, J. Eur. Orch. 44: 761 (2012). — Parentage: *Ophrys holosericea* subsp. *chestermanii* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *arachnitiformis* nothosubsp. *pacis* (Benigni, Mandozzi & Stortoni) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *aschersonii* nothosubsp. *pacis* Benigni, Mandozzi & Stortoni, GIROS Orch. Spont. Eur. 62: 352 (2019). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *arachnitiformis* nothosubsp. *pulchra* (E.G.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pulchra* E.G.Camus, Bull. Soc. Bot. France 38: 43 (1891). — Parentage: *Ophrys holosericea* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *arachnitiformis* nothosubsp. *rasettii* (W.Rossi & Minut.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *rasettii* W.Rossi & Minut., Webbia 43: 351 (1989). — Parentage: *Ophrys holosericea* subsp. *lacaitae* × *Ophrys sphegodes*.

Ophrys × *arachnitiformis* nothosubsp. *reinhardiana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *reinhardiana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 16: 650 (1984). — Parentage: *Ophrys holosericea* subsp. *oxyrrhynchos* × *Ophrys sphegodes*.

Ophrys × *arachnitiformis* nothosubsp. *sardoa* (Licheri) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *aschersonii* nothosubsp. *sardoa* Licheri, GIROS Orch. Spont. Eur. 63: 448 (2020). — Parentage: *Ophrys holosericea* subsp. *chestermanii* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *arachnitiformis* nothosubsp. *sanctimarci* (Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sanctimarci* Perilli, GIROS Orch. Spont. Eur. 58: 311 (2015). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *arachnitiformis* nothosubsp. *turcoi* (Silletti & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *turcoi* Silletti & Medagli, Quad. Silvae 1: 60 (2015). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys*

holosericea subsp. *holosericea* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *arachnitiformis* nothosubsp. *turris-veneris* (S.Serafino, Chetta & Mascia) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *turris-veneris* S.Serafino, Chetta & Mascia, GIROS Orch. Spont. Eur. 65: 302 (2022). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys sphegodes*.

Ophrys × *arachnitiformis* nothosubsp. *velathrii* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *velathrii* Romolini & Soca, J. Eur. Orch. 56: 171 (2024). — Parentage: *Ophrys holosericea* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *benoitiana* nothosubsp. *goelziana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *goelziana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 16: 650 (1984). — Parentage: *Ophrys lunulata* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *benoitiana* nothosubsp. *trullana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *trullana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 472 (1986). — Parentage: *Ophrys lunulata* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *borgersiae* nothosubsp. *mulierum* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *mulierum* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 508 (1986). — Parentage: *Ophrys reinholdii* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *brigittae* nothosubsp. *bayeri* (H.Baumann) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *bayeri* H.Baumann, Beih. Veröff. Naturschutz Landschaftspflege Baden-Württemberg 19: 142 (1981). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys omegaifera* subsp. *fleischmannii*.

Ophrys × *brigittae* nothosubsp. *kurzeorum* (H.Baumann) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *kurzeorum* H.Baumann, Beih. Veröff. Naturschutz Landschaftspflege Baden-Württemberg 19: 142 (1981). — Parentage: *Ophrys fusca* subsp. *durieui* × *Ophrys omegaifera* subsp. *dyris*.

Ophrys × *brigittae* nothosubsp. *pauliana* (C.Alibertis & A.Alibertis) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pauliana* C.Alibertis & A.Alibertis, Orchidophile (Deuil-la-Barre) 86: 81 (1989). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys omegaifera* subsp. *fleischmannii* × *Ophrys omegaifera* subsp. *omegaifera*.

Ophrys × *campolati* nothosubsp. *lupiae* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lupiae* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 228 (1972). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys tenthredinifera*.

Ophrys × *campolati* nothosubsp. *varolae* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *varolae* Lumare, Medagli & Anelli, GIROS Orch.

Spont. Eur. 63(1): 185 (2020). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *passionis* × *Ophrys tenthredinifera*.

Ophrys × *chobautii* nothosubsp. *mirtiae* (G.Kretzschmar & H.Kretzschmar) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *mirtiae* G.Kretzschmar & H.Kretzschmar, Ber. Arbeitskreis. Heimische Orchid. 15: 53 (1998). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys speculum*.

Ophrys × *clapensis* nothosubsp. *domitia* (Del Prete) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *domitia* Del Prete, Atti Soc. Tosc. Sci. Nat. Pisa, Mem. 85: 270 (1979). — Parentage: *Ophrys bombyliflora* × *Ophrys lutea* subsp. *murbeckii*.

Ophrys × *cranbrookeana* nothosubsp. *lewinii* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lewinii* Soca, Monde Pl. 91: 14 (1997). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes*.

Ophrys × *cranbrookeana* nothosubsp. *sutiliae* (Robles, J.C.Huertas & M.Becerra) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sutiliae* Robles, J.C.Huertas & M.Becerra, Acta Bot. Malac. 49: 228 (2024). — Parentage: *Ophrys holosericea* × *Ophrys scolopax* subsp. *apiformis* × *Ophrys sphegodes*.

Ophrys × *cugniensis* nothosubsp. *anxatina* (Congedo) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *anxatina* Congedo, GIROS Notiz. 36: 34 (2007). — Parentage: *Ophrys bertolonii* × *Ophrys lutea* subsp. *galilaea*.

Ophrys × *daneschiana* nothosubsp. *poisneliae* (Menos) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *poisneliae* Menos, Orchidophile (Deuil-la-Barre) 143: 197 (2000). — Parentage: *Ophrys bertolonii* × *Ophrys insectifera* subsp. *aymoninii* × *Ophrys sphegodes*.

Ophrys × *eliasii* nothosubsp. *sanctae-sofiae* (M.P.Grasso & Liverani) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sanctae-sofiae* M.P.Grasso & Liverani, Orchidophile (Deuil-la-Barre) 109: 204 (1993). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys speculum*.

Ophrys × *epidavrensis* nothosubsp. *boscoquartensis* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *boscoquartensis* O.Danesch & E.Danesch, Orchidee (Hamburg) 21: 361 (1970). — Parentage: *Ophrys argolica* subsp. *biscutella* × *Ophrys sphegodes*.

Ophrys × *epidavrensis* nothosubsp. *castellettae* (Benigni, Barigelli & Petroselli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *castellettae* Benigni, Barigelli & Petroselli, GIROS Orch. Spont. Eur. 63: 305 (2020). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *epidavrensis* nothosubsp. *cornelli* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *cornelli* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 224 (1972). — Parentage: *Ophrys argolica* subsp. *biscutella* × *Ophrys sphegodes* subsp. *sipontensis*.

Ophrys × *epidavrensis* nothosubsp. *difesaie* (Perilli)

Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *boscoquartensis* nothosubsp. *difesaie* Perilli, GIROS Orch. Spont. Eur. 59: 171 (2016). — Parentage: *Ophrys argolica* subsp. *biscutella* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *epidavrensis* nothosubsp. *floreannae* (Licheri & Pani) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *giardinae* nothosubsp. *floreannae* Licheri & Pani, GIROS Orch. Spont. Eur. 62: 408 (2019). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys sphegodes* subsp. *passionis* × *Ophrys sphegodes* subsp. *sphegodes*.

Ophrys × *epidavrensis* nothosubsp. *fluminensis* (Licheri & A.S.Loï) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *nettii* nothosubsp. *fluminensis* Licheri & A.S.Loï, GIROS Orch. Spont. Eur. 62: 196 (2019). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *sphegodes*.

Ophrys × *epidavrensis* nothosubsp. *kingsleyana* (Klaver & D.Rossi) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *kingsleyana* Klaver & D.Rossi, GIROS Orch. Spont. Eur. 64: 51 (2021). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *epidavrensis* nothosubsp. *peloponnesiaca* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *peloponnesiaca* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 222 (1972). — Parentage: *Ophrys argolica* subsp. *argolica* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *epidavrensis* nothosubsp. *rabautei* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *rabautei* Soca, Monde Pl. 90: 9 (1995). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *epidavrensis* nothosubsp. *sundermanniana* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sundermanniana* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 223 (1972). — Parentage: *Ophrys argolica* subsp. *argolica* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys × *feldwegiana* nothosubsp. *walravensiorum* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *walravensiorum* P.Delforge, Naturalistes Belges 75: 245 (1994). — Parentage: *Ophrys ferrum-equinum* subsp. *gottfriediana* × *Ophrys tenthredinifera*.

Ophrys × *ferruginea* nothosubsp. *marsianii* (Galesi) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *marsianii* Galesi, J. Eur. Orch. 27: 267 (1995). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys × *flavicans* nothosubsp. *alberobellensis* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *alberobellensis* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 496 (1986). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *sphegodes*.

Ophrys × *flavicans* nothosubsp. *barlae* (E.G.Camus)

Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *barlae* E.G.Camus, J. Bot. (Morot) 7: 159 (1893). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *flavicans* nothosubsp. *cantalupoi* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *cantalupoi* Soca, Caesiana 19: 5 (2015). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *passionis* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *flavicans* nothosubsp. *grottagliensis* (P.Delforge & C.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *grottagliensis* P.Delforge & C.Delforge, Naturalistes Belges 67: 161 (1986). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *flavicans* nothosubsp. *neowalteri* (A.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *neowalteri* A.Camus, Bull. Mus. Natl. Hist. Nat. 33: 536 (1927). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *flavicans* nothosubsp. *pescolusae* (Gennaio & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pescolusae* Gennaio & Medagli, GIROS Notiz. 54: 22 (2013). — Parentage: *Ophrys bertolonii* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys fusca nothosubsp. *dessartiana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *dessartiana* P.Delforge, Naturalistes Belges 78: 180 (1997). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys fusca* subsp. *iricolor*.

Ophrys fusca nothosubsp. *joannae* (Maire) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *joannae* Maire, Bull. Soc. Hist. Nat. Afrique N. 12: 49 (1921). — Parentage: *Ophrys fusca* subsp. *durieui* × *Ophrys fusca* subsp. *iricolor*.

Ophrys fusca nothosubsp. *peraiolae* (G.Foelsche, W.Foelsche, M.Gerbaud & O.Gerbaud) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *peraiolae* G.Foelsche, W.Foelsche, M.Gerbaud & O.Gerbaud, J. Eur. Orch. 32: 421 (2000). — Parentage: *Ophrys fusca* subsp. *bilunulata* × *Ophrys fusca* subsp. *funerea*.

Ophrys fusca nothosubsp. *rafinesquei* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *rafinesquei* Soca, Caesiana 47: 44 (2017). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys fusca* subsp. *pallida*.

Ophrys × *gauthieri* nothosubsp. *cesinensis* (Medagli, D'Emerico & Ruggiero) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *cesinensis* Medagli, D'Emerico & Ruggiero, Orchidophile (Deuil-la-Barre) 85: 30 (1989). — Parentage: *Ophrys fusca* × *Ophrys lutea* subsp. *lutea* × *Ophrys lutea* subsp. *galilaea*.

Ophrys × *gauthieri* nothosubsp. *heracleotica* (Gavalas, Kreutz & Z.Antonop.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *heracleotica* Gavalas, Kreutz & Z.Antonop., Ber. Arbeitskreis. Heimische Orchid. 27: 272 (2011). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys lutea* subsp. *galilaea*.

Ophrys × *gauthieri* nothosubsp. *paringianensis* (Licheri &

Napoli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *paringianensis* Licheri & Napoli, GIROS Orch. Spont. Eur. 66: 94 (2023). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys lutea* subsp. *galilaea*.

Ophrys × *grampinii* nothosubsp. *alibertiana* (C.Alibertis & A.Alibertis) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *alibertiana* C.Alibertis & A.Alibertis, Orchidophile (Deuil-la-Barre) 86: 83 (1989). — Parentage: *Ophrys sphegodes* subsp. *spruneri* × *Ophrys tenthredinifera*.

Ophrys × *grampinii* nothosubsp. *caballeroi* (C.E.Hermos.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *caballeroi* C.E.Hermos., Estud. Mus. Cienc. Nat. Álava 16: 54 (2001). — Parentage: *Ophrys sphegodes* subsp. *aveyronensis* × *Ophrys tenthredinifera*.

Ophrys × *grampinii* nothosubsp. *manfredoniae* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *manfredoniae* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 228 (1972). — Parentage: *Ophrys sphegodes* subsp. *atrata* × *Ophrys tenthredinifera*.

Ophrys × *grampinii* nothosubsp. *robatschii* (Benito) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *robatschii* Benito, Fl. Montiber. 80: 74 (2021). — Parentage: *Ophrys sphegodes* subsp. *araneola* × *Ophrys tenthredinifera*.

Ophrys × *grampinii* nothosubsp. *surdi* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *surdi* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 229 (1972). — Parentage: *Ophrys sphegodes* subsp. *passionis* × *Ophrys tenthredinifera*.

Ophrys × *gumprechtii* nothosubsp. *chettae* (Perilli & Biagioli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *chettae* Perilli & Biagioli, GIROS Orch. Spont. Eur. 63: 503 (2020). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* subsp. *lacaitae*.

Ophrys × *gumprechtii* nothosubsp. *lorenzoi* (Bisceglia) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lorenzoi* Bisceglia, GIROS Orch. Spont. Eur. 66: 185 (2023). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* subsp. *gracilis*.

Ophrys × *gumprechtii* nothosubsp. *nardonei* (Lumare, Medagli, Dura & Anelli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *nardonei* Lumare, Medagli, Dura & Anelli, GIROS Orch. Spont. Eur. 62: 287 (2019). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *parvimaculata*.

Ophrys × *gumprechtii* nothosubsp. *passalacqua* (Silletti & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *passalacqua* Silletti & Medagli, Quad. Silvae 1: 64 (2015). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys holosericea nothosubsp. *benignii* (Angradi, Simonc., Bocchini & Barch.) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *benignii* Angradi, Simonc., Bocchini & Barch., GIROS Orch. Spont. Eur. 68(1): 183 (2025). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys holosericea* subsp. *passionis*.

Ophrys holosericea nothosubsp. *bibbiensis* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *bibbiensis* Soca, Monde Pl. 91: 21 (1997). — Parentage: *Ophrys holosericea* subsp. *biancae* × *Ophrys holosericea* subsp. *lacaitae*.

Ophrys holosericea nothosubsp. *caliandri* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *caliandri* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 222 (1972). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys holosericea nothosubsp. *campoi* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *campoi* Soca, Monde Pl. 95: 13 (2000). — Parentage: *Ophrys holosericea* subsp. *lacaitae* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys holosericea nothosubsp. *delargeana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *delargeana* P.Delforge, Naturalistes Belges 69: 44 (1988). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys holosericea* subsp. *lacaitae*.

Ophrys holosericea nothosubsp. *fajarama* (Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *fajarama* Perilli, GIROS Orch. Spont. Eur. 58: 313 (2015). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys holosericea* subsp. *lacaitae*.

Ophrys holosericea nothosubsp. *mandozzii* (Benigni, Barigelli, Petroselli & Bocchini) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *mandozzii* Benigni, Barigelli, Petroselli & Bocchini, GIROS Orch. Spont. Eur. 68(1): 177 (2025). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys holosericea* subsp. *holosericea*.

Ophrys holosericea nothosubsp. *necropolitana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *necropolitana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 452 (1986). — Parentage: *Ophrys holosericea* subsp. *biancae* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys holosericea nothosubsp. *nociana* (H.Baumann & Künkele) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *co-sentiana* nothosubsp. *nociana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 407 (1986). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *parvimaclata*.

Ophrys holosericea nothosubsp. *pescocanalei* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pescocanalei* Soca, J. Eur. Orch. 46: 671 (2014). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys holosericea* subsp. *holosericea*. — Heterotypic synonym: *Ophrys* × *barigellii* Benigni, Petroselli, Mandozzi, Barch. & Bocchini, Micol. Marche, N.S. 9(1): 100 (2025), syn. nov.

Ophrys holosericea nothosubsp. *pugliana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pugliana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 481 (1986). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys holosericea nothosubsp. *renatafonteae* (Gennaio, M.Gargiulo, Medagli & Chetta) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *sivana* nothosubsp. *renatafonteae* Gennaio, M.Gargiulo, Medagli & Chetta, GIROS Orch. Spont. Eur. 59: 417 (2016). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys holosericea* subsp. *parvimaclata*.

Ophrys holosericea nothosubsp. *sivana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sivana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 446 (1986). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys holosericea* subsp. *holosericea*.

Ophrys holosericea nothosubsp. *staraleana* (D'Alonzo & Perilli) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *delargeana* nothosubsp. *staraleana* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 59: 64 (2016). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *lacaitae*.

Ophrys holosericea nothosubsp. *valdevariabilis* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *valdevariabilis* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 221 (1972). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *candica*.

Ophrys holosericea nothosubsp. *vilanensis* (Angradi, Simonc. & Benigni) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *vilanensis* Angradi, Simonc. & Benigni, GIROS Orch. Spont. Eur. 68(1): 190 (2025). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *gracilis*.

Ophrys × *inceburumensis* nothosubsp. *deheyniana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *deheyniana* P.Delforge, Naturalistes Belges 78: 180 (1997). — Parentage: *Ophrys bornmuelleri* × *Ophrys scolopax* subsp. *scolopax*.

Ophrys × *laconensis* nothosubsp. *alariensis* (S.Serafino) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *alariensis* S.Serafino, GIROS Orch. Spont. Eur. 67(2): 179 (2024). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys sphegodes* subsp. *passionis* × *Ophrys tenthredinifera*.

Ophrys × *laconensis* nothosubsp. *lattanziae* (Lumare, Medagli & Anelli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lattanziae* Lumare, Medagli & Anelli, GIROS Orch. Spont. Eur. 63(1): 172 (2020). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys tenthredinifera*.

Ophrys × *laconensis* nothosubsp. *sancti-ligorii* (S.Serafino) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sancti-ligorii* S.Serafino, GIROS Orch. Spont. Eur. 65: 292 (2022). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys tenthredinifera*.

Ophrys × *luizetii* nothosubsp. *corvey-bironii* (J.-M.Lewin) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *corvey-bironii* J.-M.Lewin, Orchidophile (Deuil-la-Barre) 140: 18 (2000). — Parentage: *Ophrys apifera* × *Ophrys sphegodes*

subsp. *aveyronensis*.

Ophrys × *luizetii* nothosubsp. *sandrae* (Sardu) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sandrae* Sardu, GIROS Orch. Spont. Eur. 61: 357 (2018). — Parentage: *Ophrys apifera* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *macchiatii* nothosubsp. *armentariae* (Ferrández, Benito & C.E.Hermos.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *armentariae* Ferrández, Benito & C.E.Hermos., Fl. Montiber. 65: 36 (2016). — Parentage: *Ophrys speculum* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *macchiatii* nothosubsp. *barsellae* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *barsellae* Romolini & Soca, J. Eur. Orch. 56: 185 (2024). — Parentage: *Ophrys speculum* × *Ophrys sphegodes* subsp. *araneola*. — Heterotypic synonym: *Ophrys* × *moscardiniorum* Battagli., Romolini & Soca, J. Eur. Orch. 56: 60 (2024), syn. nov.

Ophrys × *macchiatii* nothosubsp. *garnierae* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *garnierae* P.Delforge, Orchidophile (Deuil-la-Barre) 59: 497 (1983). — Parentage: *Ophrys speculum* × *Ophrys sphegodes* subsp. *sprunerii*.

Ophrys × *macchiatii* nothosubsp. *lydia* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lydia* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 511 (1986). — Parentage: *Ophrys speculum* subsp. *regis-ferdinandii* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *maremmae* nothosubsp. *arciensis* (Bartolo & Pulv.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *arciensis* Bartolo & Pulv., J. Eur. Orch. 30: 647 (1998). — Parentage: *Ophrys holosericea* subsp. *oxyrrhynchos* × *Ophrys tenthredinifera*.

Ophrys × *maremmae* nothosubsp. *hydruntensis* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *hydruntensis* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 221 (1972). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *candica* × *Ophrys tenthredinifera*.

Ophrys × *maremmae* nothosubsp. *romanoi* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *romanoi* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 62: 171 (2019). — Parentage: *Ophrys holosericea* subsp. *lacaitae* × *Ophrys tenthredinifera*.

Ophrys × *maremmae* nothosubsp. *salentina* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *salentina* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 222 (1972). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys tenthredinifera*.

Ophrys × *marmarensis* nothosubsp. *liebischiana* (Kohlmüller) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *liebischiana* Kohlmüller, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 22: 816 (1990). — Parentage: *Ophrys holosericea* subsp. *grandiflora* × *Ophrys umbilicata* subsp. *lapethica*.

Ophrys × *marmarensis* nothosubsp. *willingiorum* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *willingiorum* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 501 (1986). — Parentage: *Ophrys holosericea* subsp. *grandiflora* × *Ophrys umbilicata*.

Ophrys × *methonensis* nothosubsp. *simica* (Keitel & Remm) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *simica* Keitel & Remm, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 23: 90 (1991). — Parentage: *Ophrys argolica* subsp. *lucis* × *Ophrys tenthredinifera*.

Ophrys × *methonensis* nothosubsp. *tuscanica* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *tuscanica* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 450 (1986). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys tenthredinifera*.

Ophrys × *minuticauda* nothosubsp. *pompelonensis* (Robles) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pompelonensis* Robles, M.Becerra & A.Becerra, Acta Bot. Malac. 46e10589: [8] (2021). — Parentage: *Ophrys apifera* × *Ophrys scolopax* subsp. *apiformis*.

Ophrys × *moreana* nothosubsp. *telchinensis* (Riech.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *telchinensis* Riech., Ber. Arbeitskreis. Heimische Orchid. 14: 67 (1997). — Parentage: *Ophrys argolica* subsp. *lucis* × *Ophrys ferrum-equinum*.

Ophrys × *neocamusii* nothosubsp. *santeramana* (Silletti & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *santeramana* Silletti & Medagli, Quad. Silvae 1: 58 (2015). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* × *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *neocamusii* nothosubsp. *hilleri* (Cristaudo, Galesi, R.Lorenz & Zelesny) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *valparsiensis* nothosubsp. *hilleri* Cristaudo, Galesi, R.Lorenz & Zelesny, J. Eur. Orch. 42: 190 (2010). — Parentage: *Ophrys bertolonii* × *Ophrys holosericea* subsp. *apulica* × *Ophrys sphegodes*.

Ophrys × *neuruppertii* nothosubsp. *littoralis* (J.Baláz & M.Baláz) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *littoralis* J.Baláz & M.Baláz, Orchidee (Hamburg) 40: 108 (1989). — Parentage: *Ophrys bertolonii* × *Ophrys scolopax* subsp. *cornuta*.

Ophrys × *nouletii* nothosubsp. *aghemanii* (Renz) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *aghemanii* Renz, Fl. Iranica 126: 86 (1978). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *nouletii* nothosubsp. *calenae* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys philippii* nm. *calenae* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybriden 228, 97 (1972). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *nouletii* nothosubsp. *bernardii* (Looken)

Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *bernardii* Looken, Orchidophile (Deuil-la-Barre) 75: 1211 (1987). — Parentage: *Ophrys scolopax* subsp. *scolopax* × *Ophrys sphegodes* subsp. *aveyronensis*.

Ophrys × *nouletii* nothosubsp. *disabatoi* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *disabatoi* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 61: 6 (2018). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *nouletii* nothosubsp. *dodonica* (B.Willing & E.Willing) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *dodonica* B.Willing & E.Willing, Orchidophile (Deuil-la-Barre) 72: 110 (1986). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *helenae*.

Ophrys × *nouletii* nothosubsp. *duvigneaudiana* (P.Delforge & C.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *duvigneaudiana* P.Delforge & C.Delforge, Orchidophile (Deuil-la-Barre) 78: 1364 (1987). — Parentage: *Ophrys scolopax* subsp. *scolopax* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *nouletii* nothosubsp. *kiparissensis* (B.Willing & E.Willing) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *kiparissensis* B.Willing & E.Willing, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 10: 134 (1978). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys × *nouletii* nothosubsp. *lilasii* (Sennen ex E.G.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lilasii* Sennen ex E.G.Camus, Iconogr. Orchid. Europe, Texte: 356 (1928). — Parentage: *Ophrys scolopax* subsp. *scolopax* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *nouletii* nothosubsp. *muellneri* (H.Fleischm.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *muellneri* H.Fleischm., Verh. K. K. Zool.-Bot. Ges. Wien 54: 471 (1904). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *nouletii* nothosubsp. *sooi* (A.Fuchs) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sooi* A.Fuchs, Repert. Spec. Nov. Regni Veg. Beih. 51: 131 (1928). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *olbiensis* nothosubsp. *benaventei* (Robles & M.Becerra) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *benaventei* Robles & M.Becerra, Fl. Montiber. 82: 10 (2022). — Parentage: *Ophrys bombyliflora* × *Ophrys scolopax* subsp. *apiformis*.

Ophrys × *olbiensis* nothosubsp. *lefevreana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lefevreana* P.Delforge, Naturalistes Belges 87(Orchid. 19): 219 (2006). — Parentage: *Ophrys bombyliflora* × *Ophrys scolopax* subsp. *heldreichii*.

Ophrys omegaifera nothosubsp. *asterusica* (C.Alibertis & A.Alibertis) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *asterusica* C.Alibertis & A.Alibertis, Orchidophile

(Deuil-la-Barre) 86: 81 (1989). — Parentage: *Ophrys omegaifera* subsp. *fleischmannii* × *Ophrys omegaifera* subsp. *omegaifera*.

Ophrys × *paphosiana* nothosubsp. *denglerensis* (Riech) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *denglerensis* Riech., Ber. Arbeitskreis. Heimische Orchid. 15: 59 (1998). — Parentage: *Ophrys kotschyi* × *Ophrys umbilicata* subsp. *lapethica*.

Ophrys × *peltieri* nothosubsp. *aranii* (Robles, M.Becerra, Astete & P.Barrena) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *aranii* Robles, M.Becerra, Astete & P.Barrena, Fl. Montiber. 80: 74 (2021). — Parentage: *Ophrys scolopax* subsp. *apiformis* × *Ophrys tenthredinifera*.

Ophrys × *peltieri* nothosubsp. *lioniana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *lioniana* P.Delforge, Naturalistes Belges 87(Orchid. 19): 225 (2006). — Parentage: *Ophrys scolopax* subsp. *rhodia* × *Ophrys tenthredinifera*.

Ophrys × *peltieri* nothosubsp. *messeniensis* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *messeniensis* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 514 (1986). — Parentage: *Ophrys scolopax* subsp. *cornuta* × *Ophrys tenthredinifera*.

Ophrys × *personei* nothosubsp. *triadensis* (G.Kretzschmar & H.Kretzschmar) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *triadensis* G.Kretzschmar & H.Kretzschmar, Ber. Arbeitskreis. Heimische Orchid. 15: 52 (1998). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys tenthredinifera*. — Heterotypic synonym: *Ophrys* × *lumarei* Medagli & Baldari, GIROS Orch. Spont. Eur. 68(1): 52 (2025), syn. nov. — *Ophrys* × *mathiae* Licheri, Medau & Napoli, GIROS Orch. Spont. Eur. 68(2): 338 (2025), syn. nov.

Ophrys × *pseudofusca* nothosubsp. *boninii* (D'Alonzo & Perilli) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *friderici* nothosubsp. *boninii* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 63(1): 30 (2020). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys sphegodes* subsp. *sipontensis*.

Ophrys × *pseudofusca* nothosubsp. *borakisiana* (Albert & Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *borakisiana* P.Delforge & C.Delforge, Orchidophile (Deuil-la-Barre) 63: 687 (1984). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *pseudofusca* nothosubsp. *braun-blauquetiana* (Soó) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *braun-blauquetiana* Soó, Repert. Spec. Nov. Regni Veg. 26: 280 (1929). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *pseudofusca* nothosubsp. *capellae-pacis* (G.Kretzschmar & H.Kretzschmar) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *capellae-pacis* G.Kretzschmar & H.Kretzschmar, Ber. Arbeitskreis. Heimische Orchid. 20: 70 (2003). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys × *pseudofusca* nothosubsp. *gumprechtiana* (Soó)

Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *gumprechtiana* Soó, Acta Bot. Acad. Sci. Hung. 25: 362 (1980). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *pseudofusca* nothosubsp. *norae* (Argiolas) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *norae* Argiolas, GIROS Orch. Spont. Eur. 61: 417, 419 (2018). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *pseudofusca* nothosubsp. *pano-lefkaron* (Bourdon) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pano-lefkaron* Bourdon, Orchidophile (Deuil-la-Barre) 71: 1056 (1986). — Parentage: *Ophrys fusca* subsp. *iricolor* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *pseudofusca* nothosubsp. *pourteiniae* (J.M.Mathé) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pourteiniae* J.M.Mathé, Orchidophile (Deuil-la-Barre) 140: 25 (2000). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *pseudofusca* nothosubsp. *souliei* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *souliei* Soca, Caesiana 24: 21 (2005). — Parentage: *Ophrys fusca* subsp. *fusca* × *Ophrys sphegodes* subsp. *aveyronensis*.

Ophrys × *pseudoquadriloba* nothosubsp. *ballerini* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *ballerini* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 63(1): 26 (2020). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys sphegodes* subsp. *sipontensis*.

Ophrys × *pseudoquadriloba* nothosubsp. *coletteae* (D'Alonzo & Perilli) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *mirandana* nothosubsp. *coletteae* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 61: 400, 402 (2018). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *pseudoquadriloba* nothosubsp. *demangeana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *demangeana* P.Delforge, Naturalistes Belges 71: 135 (1990). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys × *pseudoquadriloba* nothosubsp. *legerrieriae* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *legerrieriae* P.Delforge, Orchidophile (Deuil-la-Barre) 60: 517 (1984). — Parentage: *Ophrys lutea* subsp. *lutea* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *pseudoquadriloba* nothosubsp. *maschioi* (D'Alonzo & Perilli) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *mirandana* nothosubsp. *maschioi* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 64: 71 (2021). — Parentage: *Ophrys lutea* subsp. *lutea* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *pseudoquadriloba* nothosubsp. *mattinatellae* (Kohlmüller) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *piscinica* nothosubsp. *mattinatellae* Kohlmüller, Orchidee (Hamburg) 44: 98 (1993). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys sphegodes* subsp. *atrata*. — Heterotypic

synonym: *Ophrys* × *johannis-patris* Licheri & Napoli, GIROS Orch. Spont. Eur. 68(2): 345 (2025), syn. nov.

Ophrys × *pseudoquadriloba* nothosubsp. *piscinica* (P.Delforge & C.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *piscinica* P.Delforge & C.Delforge, Naturalistes Belges 67: 157 (1986). — Parentage: *Ophrys lutea* subsp. *lutea* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys × *pseudoquadriloba* nothosubsp. *tuchulchae* (Antonj & Gransinigh) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *tuchulchae* Antonj & Gransinigh, GIROS Orch. Spont. Eur. 68(1): 63 (2025). — Parentage: *Ophrys lutea* subsp. *galilaea* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *pseudospeculum* nothosubsp. *oretana* (Robles, A.M.Díaz & Miguel Gómez) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *oretana* Robles, A.M.Díaz & Miguel Gómez, Fl. Montiber. 82: 9 (2022). — Parentage: *Ophrys lutea* × *Ophrys scolopax* subsp. *apiformis*.

Ophrys × *rainei* nothosubsp. *daunia* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *daunia* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 436 (1986). — Parentage: *Ophrys bombyliflora* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys × *rainei* nothosubsp. *stivii* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *stivii* Romolini & Soca, GIROS Orch. Spont. Eur. 58: 157 (2015). — Parentage: *Ophrys bombyliflora* × *Ophrys sphegodes* subsp. *araneola*.

Ophrys × *rasbachii* nothosubsp. *subertana* (Battagl., Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *subertana* Battagl., Romolini & Soca, J. Eur. Orch. 56: 62 (2024). — Parentage: *Ophrys argolica* subsp. *crabronifera* × *Ophrys speculum*.

Ophrys × *raynaudii* nothosubsp. *konyana* (Kreutz & Ruedi Peter) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *konyana* Kreutz & Ruedi Peter, J. Eur. Orch. 39: 73 (2007). — Parentage: *Ophrys argolica* subsp. *lucis* × *Ophrys reinholdii* subsp. *straussii*.

Ophrys × *rechingeri* nothosubsp. *demutiana* (B.Baumann & H.Baumann) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *demutiana* B.Baumann & H.Baumann, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 16: 126 (1984). — Parentage: *Ophrys ferrum-equinum* subsp. *gottfriediana* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys × *rechingeri* nothosubsp. *fortosica* (B.Willing & E.Willing) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *fortosica* B.Willing & E.Willing, Orchidophile (Deuil-la-Barre) 72: 1102 (1986). — Parentage: *Ophrys ferrum-equinum* × *Ophrys sphegodes* subsp. *helenae*.

Ophrys × *rechingeri* nothosubsp. *mastii* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *mastii* P.Delforge, Orchidophile (Deuil-la-Barre) 59: 497 (1983). — Parentage: *Ophrys ferrum-equinum* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys × *resurrecta* nothosubsp. *biagioli* (Lumare & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys*

× *biagioli* Lumare & Medagli, GIROS Orch. Spont. Eur. 61: 364, 370 (2018). — Parentage: *Ophrys bombyliflora* × *Ophrys holosericea* subsp. *candida* × *Ophrys holosericea* subsp. *parvimaculata*.

Ophrys × *resurrecta* nothosubsp. *martini* (O.Danesch & E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *martini* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 227 (1972). — Parentage: *Ophrys bombyliflora* × *Ophrys holosericea* subsp. *oxyrrhynchos*.

Ophrys × *resurrecta* nothosubsp. *medaglii* (Turco, Ruggiero, Gennaio & D'Emerico) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *medaglii* Turco, Ruggiero, Gennaio & D'Emerico, Thalassia Salentina 34: 27 (2012). — Parentage: *Ophrys bombyliflora* × *Ophrys holosericea* subsp. *candida*.

Ophrys × *resurrecta* nothosubsp. *ozantina* (Gennaio) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *ozantina* Gennaio, GIROS Notiz. 41: 28 (2009). — Parentage: *Ophrys bombyliflora* × *Ophrys holosericea* subsp. *parvimaculata*.

Ophrys × *resurrecta* nothosubsp. *salapiensis* (Serafino, Gennaio, Chetta, M.Gargiulo & Medagli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *salapiensis* Serafino, Gennaio, Chetta, M.Gargiulo & Medagli, GIROS Orch. Spont. Eur. 60: 442 (2017). — Parentage: *Ophrys bombyliflora* × *Ophrys holosericea* subsp. *apulica* × *Ophrys holosericea* subsp. *candida*.

Ophrys scolopax nothosubsp. *vereeckeniana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *vereeckeniana* P.Delforge, Naturalistes Belges 87(Orchid. 19): 225 (2006). — Parentage: *Ophrys scolopax* subsp. *heldreichii* × *Ophrys scolopax* subsp. *rhodia*.

Ophrys speculum nothosubsp. *innominata* (D.Tyteca & B.Tyteca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *innominata* D.Tyteca & B.Tyteca, Orchidophile (Deuil-la-Barre) 69: 929 (1985). — Parentage: *Ophrys speculum* subsp. *lusitanica* × *Ophrys speculum* subsp. *speculum*.

Ophrys sphegodes nothosubsp. *acina* (C.E.Hermos.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *acina* C.E.Hermos., J. Eur. Orch. 31(4): 883 (1999). — Parentage: *Ophrys sphegodes* subsp. *araneola* × *Ophrys sphegodes* subsp. *passionis*. — Heterotypic synonym: *Ophrys* × *petrosellii* Benigni, Barigelli, Mandozzi, Barch. & Bocchini, Micol. Marche, N.S. 9(1): 101 (2025), syn. nov.

Ophrys sphegodes nothosubsp. *biancoae* (Medagli, D'Emerico & Ruggiero) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *biancoae* Medagli, D'Emerico & Ruggiero, Orchidophile (Deuil-la-Barre) 85: 29 (1989). — Parentage: *Ophrys sphegodes* subsp. *passionis* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys sphegodes nothosubsp. *burneriana* (C.Alibertis & A.Alibertis) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *burneriana* C.Alibertis & A.Alibertis, Orchidophile (Deuil-la-Barre) 86: 83 (1989). — Parentage: *Ophrys sphegodes* subsp. *cretensis* × *Ophrys sphegodes* subsp. *spruneri*.

Ophrys sphegodes nothosubsp. *celani* (O.Danesch &

E.Danesch) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *celani* O.Danesch & E.Danesch, Orchid. Eur. Ophrys-Hybr.: 223 (1972). — Parentage: *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *passionis*.

Ophrys sphegodes nothosubsp. *cortesii* (A.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *cortesii* A.Camus, Iconogr. Orchid. Europe, Texte: 5 (1921). — Parentage: *Ophrys sphegodes* subsp. *araneola* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys sphegodes nothosubsp. *costei* (Looken) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *costei* Looken, Orchidophile (Deuil-la-Barre) 86: 84 (1989). — Parentage: *Ophrys sphegodes* subsp. *aveyronensis* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys sphegodes nothosubsp. *delvauxiorum* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *delvauxiorum* P.Delforge, Naturalistes Belges 73: 99 (1992). — Parentage: *Ophrys sphegodes* subsp. *helenae* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys sphegodes nothosubsp. *evvia* (Riech.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *evvia* Riech., Ber. Arbeitskreis. Heimische Orchid. 17: 45 (2000). — Parentage: *Ophrys sphegodes* subsp. *aesculapii* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys sphegodes nothosubsp. *hierapetrae* (H.Baumann & Künkele) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *baumanniana* nothosubsp. *hierapetrae* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 454 (1986). — Parentage: *Ophrys sphegodes* subsp. *cretensis* × *Ophrys sphegodes* subsp. *parnassica*.

Ophrys sphegodes nothosubsp. *ioanninensis* (B.Willing & E.Willing) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *ioanninensis* B.Willing & E.Willing, Orchidophile (Deuil-la-Barre) 72: 1100 (1986). — Parentage: *Ophrys sphegodes* subsp. *helenae* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys sphegodes nothosubsp. *montana* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *montana* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 474 (1986). — Parentage: *Ophrys sphegodes* subsp. *sphgodes* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys sphegodes nothosubsp. *perrinii* (Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *perrinii* Soca, Monde Pl. 95: 14 (2000). — Parentage: *Ophrys sphegodes* subsp. *passionis* × *Ophrys sphegodes* subsp. *provincialis*.

Ophrys sphegodes nothosubsp. *pseudospruneri* (Soó) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *pseudospruneri* Soó, Repert. Spec. Nov. Regni Veg. 26: 280 (1929). — Parentage: *Ophrys sphegodes* subsp. *spruneri* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys sphegodes nothosubsp. *sassettae* (Romolini & Soca) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sassettae* Romolini & Soca, GIROS Notiz. 38: 17 (2008). — Parentage: *Ophrys sphegodes* subsp. *araneola* × *Ophrys sphegodes* subsp. *sphgodes*.

Ophrys sphegodes nothosubsp. *sieberi* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *sieberi* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 453 (1986). — Parentage: *Ophrys sphegodes* subsp. *parnassica* × *Ophrys sphegodes* subsp. *taurica*.

Ophrys sphegodes nothosubsp. *turchinae* (Gransinigh & Buono) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *turchinae* Gransinigh & Buono, GIROS Notiz. 47: 75 (2011). — Parentage: *Ophrys sphegodes* subsp. *araneola* × *Ophrys sphegodes* subsp. *atrata*.

Ophrys sphegodes nothosubsp. *todaroana* (Macch.) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *todaroana* Macch., Nuovo Giorn. Bot. Ital. 13: 314 (1881). — Parentage: *Ophrys sphegodes* subsp. *atrata* × *Ophrys sphegodes* subsp. *sphogodes*.

Ophrys × *vicina* nothosubsp. *anomala* (Renz) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *anomala* Renz, Repert. Spec. Nov. Regni Veg. 30: 109 (1932). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys scolopax* subsp. *heldreichii*.

Ophrys × *vicina* nothosubsp. *colonnae* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *colonnae* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 61: 72 (2018). — Parentage: *Ophrys holosericea* subsp. *gracilis* × *Ophrys scolopax* subsp. *conradiae*.

Ophrys × *vicina* nothosubsp. *deleoii* (D'Alonzo & Perilli) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *deleoii* D'Alonzo & Perilli, GIROS Orch. Spont. Eur. 63: 328 (2020). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys scolopax* subsp. *conradiae*.

Ophrys × *vicina* nothosubsp. *difesagrandeana* (D'Alonzo) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *difesagrandeana* D'Alonzo, GIROS Notiz. 57: 32 (2014). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys scolopax* subsp. *conradiae*.

Ophrys × *vicina* nothosubsp. *duchateauana* (P.Delforge) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *duchateauana* P.Delforge, Naturalistes Belges 92: 30 (2011). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys scolopax* subsp. *cornuta*.

Ophrys × *vicina* nothosubsp. *neozimmermannii* (A.Camus) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *neozimmermannii* A.Camus, Iconogr. Orchid. Europe, Texte: 357 (1928). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys scolopax* subsp. *cornuta*.

Ophrys × *vicina* nothosubsp. *perspicua* (Renz & Taubenheim) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *perspicua* Renz & Taubenheim, Notes Roy. Bot. Gard. Edinburgh 41: 276 (1983). — Parentage: *Ophrys holosericea* subsp. *holosericea* × *Ophrys scolopax* subsp. *phrygia*.

Ophrys × *vicina* nothosubsp. *saskiana* (L. Apple) Z.H.Feng, comb. nov. — Basionym: *Ophrys* × *marmarensis* nothosubsp. *saskiana* L. Apple, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 24: 627 (1992). — Parentage: *Ophrys*

holosericea subsp. *holosericea* × *Ophrys scolopax* subsp. *rhodia*.

Ophrys × *vicina* nothosubsp. *turrica* (R.Lorenz & Gembardt) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *turrica* R.Lorenz & Gembardt, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 19: 514 (1987). — Parentage: *Ophrys holosericea* subsp. *apulica* × *Ophrys scolopax* subsp. *cornuta*.

Ophrys × *vicina* nothosubsp. *warwarensis* (H.Baumann & Künkele) Z.H.Feng, comb. & stat. nov. — Basionym: *Ophrys* × *warwarensis* H.Baumann & Künkele, Mitt. Arbeitskreis Heimische Orchid. Baden-Württemberg 18: 445 (1986). — Parentage: *Ophrys holosericea* subsp. *candica* × *Ophrys scolopax* subsp. *heldreichii*.

Serapias × *meridionalis* nothosubsp. *pulae* (Perko) Z.H.Feng & J.M.H. Shaw, comb. & stat. nov. — Basionym: *Serapias* × *pulae* Perko, Ber. Arbeitskreis. Heimische Orchid. 15: 25 (1998). — Parentage: *Serapias lingua* × *Serapias neglecta* subsp. *apulica*.

× *Serapicamptis correvonii* nothosubsp. *rana* (Frosch) Z.H.Feng, comb. & stat. nov. — Basionym: × *Orchiserapias rana* Frosch, Orchidee (Hamburg) 40: 227 (1980). — Parentage: *Anacamptis morio* subsp. *longicornu* × *Serapias lingua*.

Paeoniaceae [41]

Paeonia daurica nothosubsp. *dmitrievae* (Timukhin & K.U.Aliev) Z.H.Feng, comb. & stat. nov. — Basionym: *Paeonia* × *dmitrievae* Timukhin & K.U.Aliev, Turczaninowia 21(3): 51 (2018). — Parentage: *Paeonia daurica* subsp. *coriifolia* × *Paeonia daurica* subsp. *macrophylla*.

Paeonia daurica nothosubsp. *litvinskajae* (Mordak, Punina & Timukhin) Z.H.Feng, comb. & stat. nov. — Basionym: *Paeonia* × *litvinskajae* Mordak, Punina & Timukhin, Novosti Sist. Vyssh. Rast. 42: 124 (2011). — Parentage: *Paeonia daurica* subsp. *coriifolia* × *Paeonia daurica* subsp. *wittmanniana*.

Papaveraceae

Papaver pilosum nothosubsp. *pichlerianum* (Fedde) Z.H.Feng, comb. & stat. nov. — Basionym: *Papaver* × *pichlerianum* Fedde, Pflanzenr. (Engler) IV, 104: 358 (1909). — Parentage: *Papaver pilosum* subsp. *pilosum* × *Papaver pilosum* subsp. *spicatum*.

Papaver pilosum nothosubsp. *sieheanum* (Fedde) Z.H.Feng, comb. & stat. nov. — Basionym: *Papaver* × *sieheanum* Fedde, Pflanzenr. (Engler) IV, 104: 359 (1909). — Parentage: *Papaver pilosum* × *Papaver pilosum* subsp. *strictum*.

Poaceae

Hordeum vulgare nothosubsp. *lagunculiforme* (Bachteev) Z.H.Feng, comb. & stat. nov. — Basionym: *Hordeum spontaneum* var. *lagunculiforme* Bachteev, Bot. Zhurn. (Moscow & Leningrad) 47: 847 (1962). — Parentage: *Hordeum vulgare* subsp. *spontaneum* × *Hordeum vulgare* subsp. *vulgare*.

Primulaceae

Cyclamen coum nothosubsp. *atkinsii* (T.Moore) Z.H.Feng, comb. & stat. nov. — Basionym: *Cyclamen* × *atkinsii* T.Moore, Gard. Companion Florists' Guide 1: 89 (1852). —

Parentage: *Cyclamen coum* subsp. *caucasicum* × *Cyclamen coum* subsp. *coum*.

Cyclamen purpurascens nothosubsp. *marsii* (Halda) Z.H.Feng, comb. & stat. nov. — Basionym: *Cyclamen* × *marsii* Halda, Skalničky 1973(1): 28 (1973). — Parentage: *Cyclamen purpurascens* subsp. *immaculatum* × *Cyclamen purpurascens* subsp. *purpurascens*.

Primula × *austriaca* nothosubsp. *gaisbergensis* (Pax) Z.H.Feng, comb. & stat. nov. — Basionym: *Primula* × *gaisbergensis* Pax, Pflanzenr. (Engler), IV, 237: 64 (1905). — Parentage: *Primula veris* subsp. *canescens* × *Primula vulgaris*.

Primula × *austriaca* nothosubsp. *tristis* (Pax) Z.H.Feng, comb. & stat. nov. — Basionym: *Primula* × *tristis* Pax, Pflanzenr. (Engler), IV, 237: 65 (1905). — Parentage: *Primula veris* subsp. *veris* × *Primula vulgaris* subsp. *rubra*.

Primula × *austriaca* nothosubsp. *uzungolensis* (Terzioğlu & Coşkunç.) Z.H.Feng, comb. & stat. nov. — Basionym: *Primula* × *uzungolensis* Terzioğlu & Coşkunç., Turk. J. Bot. 36(1): 12 (2012). — Parentage: *Primula veris* subsp. *columnae* × *Primula vulgaris* subsp. *rubra*.

Saxifragaceae

Micranthes nelsoniana nothovar. *tolmatchevii* (Zhmylev) Z.H.Feng, comb. & stat. nov. — Basionym: *Saxifraga* × *tolmatchevii* Zhmylev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 100(3): 81 (1995). — Parentage: *Micranthes nelsoniana* var. *nelsoniana* × *Micranthes nelsoniana* var. *porsildiana*.

3. Conclusion

The current article serves as an overhauled addendum of nomenclature to the existing nothotaxa, these nomenclatural updates are not merely academic exercises; they serve essential practical functions. By validating and standardizing names for overlooked hybrids, this work supports more accurate naming, enhances biodiversity documentation, and provides a reliable reference for conservation prioritization and horticultural use. Furthermore, the integration of these names into major databases will facilitate their adoption in global taxonomic checklists and floristic treatments.

Abbreviations

APG	Angiosperm Phylogeny Group
ICN	International Code of Nomenclature for Algae, Fungi, and Plants
IPNI	International Plant Name Index
POWO	Plants of the World Online
PPG	Pteridophyte Phylogeny Group

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Author Contributions

Zhen-Hao Feng is the sole author. The author read and approved the final manuscript.

Conflicts of Interest

The author declares no conflicts of interest.

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