

Italian Botanist 20

Supplementary data to Notulae to the Italian native vascular flora: 20

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Categories concerning the occurrence status of taxa follow Bartolucci et al. (2024).

1. Nomenclatural updates

Family	Nomenclature according to Bartolucci et al. (2024)	Revised nomenclature	References/Note
Amaryllidaceae	<i>Allium coloratum</i> Spreng.	<i>Allium cirrhosum</i> Vand.	Bartolucci et al. (2025)
Amaryllidaceae	<i>Allium cyrilli</i> Ten.	<i>Allium cyrilli</i> Ten. subsp. <i>cyrilli</i>	Other subspecies exist (POWO 2025)
Ranunculaceae	<i>Anemone pavonina</i> Lam.	<i>Anemone hortensis</i> L.	Compton (2025)
Fabaceae	<i>Cytisus elongatus</i> Waldst. & Kit.	<i>Cytisus triflorus</i> Lam.	<i>Cytisus elongatus</i> Waldst. & Kit. and <i>C. triflorus</i> Lam. are regarded as two different species by Coulot and Rabaute (2016). Pending further studies on Italian populations, we prefer to include provisionally <i>C. elongatus</i> in <i>C. triflorus</i> . The distribution of <i>C. elongatus</i> in Italy should be studied. Sennikov (2024) regarded, erroneously, <i>C. triflorus</i> as synonym of <i>C. hirsutus</i> L.
Orchidaceae	<i>Dactylorhiza maculata</i> (L.) Soó subsp. <i>fuchsii</i> (Druce) Hyl.	<i>Dactylorhiza fuchsii</i> (Druce) Soó	Bateman (2021)
Orchidaceae	<i>Dactylorhiza maculata</i> (L.) Soó subsp. <i>saccifera</i> (Brongn.) Diklić	<i>Dactylorhiza gervasiana</i> (Tod.) H.Baumann & Künkele	Bateman (2021); <i>Dactylorhiza saccifera</i> s.str. is distributed in Balkans and Turkey.
Orchidaceae	<i>Dactylorhiza maculata</i> (L.) Soó subsp. <i>savogensis</i> (D.Tyteca & Gathoye) Kreutz	<i>Dactylorhiza maculata</i> (L.) Soó subsp. <i>maculata</i>	Tison and de Foucault (2014), POWO (2025)
Orchidaceae	<i>Epipactis microphylla</i> (Ehrh.) Sw. subsp. <i>cosyrensis</i> Brullo	<i>Epipactis microphylla</i> (Ehrh.) Sw.	Biagioli and De Simoni (2024), POWO (2025)
Euphorbiaceae	<i>Euphorbia esula</i> L. subsp. <i>tommasiniana</i> (Bertol.) Kuzmanov	<i>Euphorbia tommasiniana</i> Bertol.	Taxon endemic to Italy (Reichert et al. 2018; POWO 2025)
Valerianaceae	<i>Fedia cornucopiae</i> (L.) Gaertn.	<i>Fedia cornucopiae</i> auct. Fl. Ital, non (L.) Gaertn.	Synonym of <i>Fedia graciliflora</i> Fisch. & C.A.Mey.
Apiaceae	<i>Ferulago galbanifera</i> (Mill.) W.D.J.Koch	<i>Lophosciadium galbaniferum</i> (Mill.) Lyskov & Akalin	Lyskov et al. (2025)
Apiaceae	<i>Ferulago nodosa</i> (L.) Boiss. subsp. <i>geniculata</i> (Guss.) Troia & Raimondo	<i>Lophosciadium nodosum</i> (L.) Lyskov subsp. <i>geniculatum</i> (Guss.) Lyskov	Lyskov et al. (2025)

Apiaceae	<i>Ferulago sylvatica</i> (Besser) Rchb.	<i>Lophosciadium sylvaticum</i> (Besser) Lyskov	Lyskov et al. (2025)
Liliaceae	<i>Fritillaria tubaeformis</i> Gren. & Godr. subsp. <i>moggridgei</i> (Planch.) Rix	<i>Fritillaria moggridgei</i> (Planch.) Boiss. & Reut. ex Cusin	Dovana et al. (2025)
Liliaceae	<i>Fritillaria tubaeformis</i> Gren. & Godr. subsp. <i>tubaeformis</i>	<i>Fritillaria tubaeformis</i> Gren. & Godr.	Dovana et al. (2025)
Asteraceae	<i>Leontodon crispus</i> Vill.	<i>Leontodon crispus</i> Vill. subsp. <i>crispus</i>	Conti et al. (2025)
Fabaceae	<i>Lathyrus jordanii</i> (Ten.) Ces., Pass. & Gibelli	<i>Lathyrus jordani</i> (Ten.) Ces., Pass. & Gibelli	According to Art. 60.10 (Turland et al. 2025) the original spelling of the epithet “ <i>jordani</i> ” is to be retained.
Caryophyllaceae	<i>Moehringia bavarica</i> (L.) Gren.	<i>Moehringia bavarica</i> (L.) Gren. subsp. <i>bavarica</i>	Kadereit (2025)
Caryophyllaceae	<i>Moehringia insubrica</i> Degen	<i>Moehringia bavarica</i> (L.) Gren. subsp. <i>bavarica</i>	Kadereit (2025)
Orchidaceae	<i>Orchis mascula</i> (L.) L. subsp. <i>olbiensis</i> (Reut. ex Gren.) Asch. & Graebn.	<i>Orchis olbiensis</i> Reut. ex Gren.	Bateman et al. (2003), Tison and de Foucault (2014)
Orchidaceae	<i>Orchis mascula</i> (L.) L. subsp. <i>speciosa</i> (Mutel) Hegi	<i>Orchis mascula</i> (L.) L. subsp. <i>mascula</i>	Bateman et al. (2003), Tison and de Foucault (2014), Pignatti et al. (2017)
Rhamnaceae	<i>Rhamnus lycioides</i> L. subsp. <i>oleoides</i> (L.) Jahand. & Maire	<i>Rhamnus oleoides</i> L. subsp. <i>oleoides</i>	Alijanpoor et al. (2021), POWO (2025)
Rosaceae	<i>Rubus hirtus</i> Waldst. & Kit. group	<i>Rubus glandulosus</i> Bellardi	Sochor et al. (2025)
Caryophyllaceae	<i>Sagina hawaiiensis</i> Pax	<i>Sagina alexandrae</i> Iamónico	According to Iamónico (2025) <i>Sagina hawaiiensis</i> should be regarded as synonym of <i>S. maxima</i> A.Gray
Asteraceae	<i>Serratula tinctoria</i> L. subsp. <i>monticola</i> (Boreau) Berher	<i>Serratula tinctoria</i> L. subsp. <i>tinctoria</i>	Tison and de Foucault (2014); according to POWO (2025) this taxon could be recognized as variety (<i>Serratula tinctoria</i> var. <i>alpina</i> Godr.).
Rosaceae	<i>Sorbus ×decipiens</i> (Bechst.) Petz. & G.Kirchn.	<i>Aria decipiens</i> (Bechst.) M. Roem.	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus ×hostii</i> (J.Jacq. ex Host) Heynh.	<i>Hedlundia hostii</i> (J. Jacq. ex Host) Mosyakin, Fedor. & McNeill	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus aria</i> (L.) Crantz	<i>Aria edulis</i> (Willd.) M. Roem.	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus austriaca</i> (Beck) Hayek	<i>Hedlundia austriaca</i> (Beck) Sennikov & Kurtto	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus chamaemespilus</i> (L.) Crantz	<i>Aria chamaemespilus</i> (L.) Host	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus flabellifolia</i> (Spach) Schauer	<i>Aria umbellata</i> (Desf.) Sennikov & Kurtto	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus graeca</i> (Spach) hort. Lodd. ex S.Schauer	<i>Aria graeca</i> (Spach) M. Roem.	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus hybrida</i> (L.) L.	<i>Hedlundia hybrida</i> (L.) Sennikov & Kurtto	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus intermedia</i> (Ehrh.) Pers.	<i>Hedlundia intermedia</i> (Ehrh.) Mosyakin, Fedor. & McNeill	Mosyakin et al. (2025)

Rosaceae	<i>Sorbus latifolia</i> (Lam.) Pers.	<i>Aria latifolia</i> (Lam.) M. Roem.	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus lippertiana</i> N.Mey. & Meierott	<i>Hedlundia lippertiana</i> (N.Mey. & Meierott) N.Mey.	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus mougeotii</i> Soy.-Will. & Godr.	<i>Hedlundia mougeotii</i> (Soy.-Will. & Godr.) Sennikov & Kurtto	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus pannonica</i> Kárpáti	<i>Aria pannonica</i> (Kárpáti) Sennikov & Kurtto	Mosyakin et al. (2025)
Rosaceae	<i>Sorbus torminalis</i> (L.) Crantz	<i>Aria torminalis</i> (L.) Beck	Mosyakin et al. (2025)
Fabaceae	<i>Vicia tenuifolia</i> Roth subsp. <i>elegans</i> (Guss.) Nyman	<i>Vicia elegans</i> Guss.	Cambria et al. (2025)

2. Note updates

Family	Taxon	Note update	References
Poaceae	<i>Brachypodium hybridum</i> Catalán, Joch.Müll., Hasterok & Jenkins	The name <i>Brachypodium hybridum</i> Catalán, Joch.Müll., Hasterok & Jenkins was recently proposed for conservation (Ferrer-Gallego et al. 2025).	Ferrer-Gallego et al. (2025)
Fabaceae	<i>Cytisus hirsutus</i> L.	The distribution of <i>Cytisus hirsutus</i> should be revised.	
Fabaceae	<i>Cytisus triflorus</i> Lam.	<i>Cytisus elongatus</i> Waldst. & Kit. and <i>C. triflorus</i> Lam. are regarded as two different species by Coulot and Rabaute (2016). Pending further studies on Italian populations, we prefer to include provisionally <i>C. elongatus</i> in <i>C. triflorus</i> . The distribution of <i>C. elongatus</i> in Italy should be studied.	
Apiaceae	<i>Eryngium alpinum</i> L.	In VEN this species is extinct, but some casual plants escaped from cultivation may be found (Argenti 2025).	Argenti (2025)
Rosaceae	<i>Euphorbia tommasiniana</i> Bertol.	Taxon strictly endemic to NE Italy (FVG) (Reichert et al. 2018). The records of this taxon for other Italian regions should be revised, and probably in part referable to <i>E. saratoi</i> Ardoino.	F. Bartolucci, F. Conti and G. Galasso (pers. comm.)
Rosaceae	<i>Hedlundia austriaca</i> (Beck) Sennikov & Kurtto	<i>Sorbus slavnicensis</i> Kárpáti and <i>S istriaca</i> Kárpáti recorded from FVG (Bartolucci et al. 2024), are unresolved names provisionally included here.	

3. Distribution updates

Family	Taxon	Distribution update	References/Note
Asteraceae	<i>Adenostyles alpina</i> (L.) Bluff & Fingerh. subsp. <i>macrocephala</i> (Huter, Porta & Rigo) Dillenb. & Kadereit	NP CAM	Scafidi (2025)
Asteraceae	<i>Adenostyles australis</i> (Ten.) Iamonico & Pignatti	NP PUG	Scafidi (2025)
Orchidaceae	<i>Anacamptis berica</i> Doro	P LOM	Ravasio (2025)
Lamiaceae	<i>Ajuga chamaepitys</i> (L.) Schreb. subsp. <i>chamaepitys</i>	P SAR	Calvia et al. (2025)

Rosaceae	<i>Alchemilla opaca</i> Buser	P TOS	Gestri et al. (2022)
Betulaceae	<i>Alnus cordata</i> (Loisel.) Duby	P A NAT VEN	Argenti (2025)
Asparagaceae	<i>Asparagus acutifolius</i> L.	P PIE	Selvaggi et al. (2025)
Aspleniaceae	<i>Asplenium fontanum</i> (L.) Bernh. subsp. <i>fontanum</i>	D ABR	Conti et al. (2011)
Cyperaceae	<i>Bolboschoenus yagara</i> (Ohwi) Y.C.Yang & M.Zhan	P VEN	Di Natale et al. (2020)
Poaceae	<i>Brachypodium distachyon</i> (L.) P.Beauv.	P PIE	Guarino et al. (2024)
Apiaceae	<i>Bupleurum baldense</i> Turra	P VDA	Guarino et al. (2024)
Brassicaceae	<i>Cardamine pentaphyllos</i> (L.) Crantz	NP TOS	Viciani et al. (2020)
Asteraceae	<i>Carduus chrysacanthus</i> Ten.	E ITA	Recently excluded from the flora of Croatia (Šegota et al. 2025)
Cyperaceae	<i>Carex myosuroides</i> Vill.	P MAR	Allegrezza et al. (2007)
Dipsacaceae	<i>Cephalaria alpina</i> (L.) Roem. & Schult.	NP VEN	Argenti (2025)
Oleaceae	<i>Chrysojasminum fruticans</i> (L.) Banfi	NP TOS	Reported by Gestri et al. (2023) as a casual alien and/or cultivated; the species was only cultivated (G. Gestri, pers. comm.).
Rosaceae	<i>Crataegus azarolus</i> L.	C ITA; P C SIC	The native distribution range of the species is uncertain; it could be native in Sicily (Spadaro et al. 2024).
Rosaceae	<i>Crataegus laevigata</i> (Poir.) DC.	P SIC	Spadaro et al. (2024)
Convolvulaceae	<i>Cuscuta monogyna</i> Vahl subsp. <i>monogyna</i>	NC C ABR	Misprint in Bartolucci et al. (2024)
Cyperaceae	<i>Cyperus polystachyos</i> Rottb.	NC SIC	Iamonico et al. (2025)
Fabaceae	<i>Cytisus pumilus</i> De Not.	P LIG, P PIE	Endemic species to Maritime Alps (Italy and France; Cristofolini 1971, Coulot and Rabaute 2016).
Orchidaceae	<i>Dactylorhiza majalis</i> (Rchb.) P.F.Hunt & Summerh.	NC TOS, NP MAR	The only record for TOS is by Zangheri (1966, under the name <i>Orchis latifolia</i> subsp. <i>majalis</i> Soó); the record for MAR refers to Benigni and Mandozzi (2013), who subsequently referred the same population to <i>Dactylorhiza stortonii</i> Benigni, Mandozzi, Monaldi, Barigelli & Petroselli (Benigni et al. 2021), which in turn seems to represent a hybrid in need of further studies.
Brassicaceae	<i>Draba cuspidata</i> M.Bieb.	NP ABR	Misprint in Bartolucci et al. (2024)
Dryopteridaceae	<i>Dryopteris borrieri</i> (Newman) Kinahan	P SIC	Kozłowski et al. (2025, under the name <i>D. robusta</i> (Oberh.

			& Tavel ex Fraser-Jenk.) P.D.Sell)
Asteraceae	<i>Echinops ritro</i> L.	A CAS VEN	Argenti (2025)
Geraniaceae	<i>Erodium moschatum</i> (L.) L'Hér.	A CAS PIE	Selvaggi et al. (2025)
Euphorbiaceae	<i>Euphorbia meuselii</i> Geltman	P TOS	Selvi et al. (2025)
Euphorbiaceae	<i>Euphorbia verrucosa</i> L.	NP LAZ, NP ABR, NP CAM	Cresti et al. (2019)
Euphorbiaceae	<i>Euphorbia virgata</i> Waldst. & Kit.	P VEN	Argenti (2025)
Geraniaceae	<i>Geranium rivulare</i> Vill.	NP VEN	Argenti (2025)
Asteraceae	<i>Hieracium dolichaetum</i> Arv.- Touv. ex Zahn	P VDA	Bovio (2023)
Asteraceae	<i>Hieracium racemosum</i> Waldst. & Kit. ex Willd. subsp. <i>barbatum</i> (Froel.) Zahn	P VDA	Bovio (2023)
Asteraceae	<i>Hieracium sabaudum</i> L. subsp. <i>fruticetorum</i> (Jord. ex Boreau) Zahn	P VDA	Bovio (2023)
Asteraceae	<i>Hieracium sabaudum</i> L. subsp. <i>salicetorum</i> (Sudre) Zahn	P VDA	Bovio (2023)
Asteraceae	<i>Hypochaeris glabra</i> L.	P VDA	Guarino et al. (2024)
Fabaceae	<i>Laburnum alpinum</i> (Mill.) Bercht. & J.Presl	NP SIC	Pignatti et al. (2017)
Fabaceae	<i>Laburnum anagyroides</i> Medik. subsp. <i>anagyroides</i>	A CAS SIC	Pignatti et al. (2017)
Asteraceae	<i>Leontodon montecristensis</i> Foggi, N.Kilian, Landi & Zoccola	E, P ITA; P TOS	Foggi et al. (2025)
Marsileaceae	<i>Marsilea quadrifolia</i> L.	EX TOS	Peruzzi et al. (2025)
Brassicaceae	<i>Noccaea cepaeifolia</i> (Wulfen) Rchb.	P TAA, P VEN	Voisin et al. (2025)
Brassicaceae	<i>Noccaea rotundifolia</i> (L.) Moench	P VDA, NP LOM, NP TAA, NP VEN, NP FVG	Voisin et al. (2025)
Poaceae	<i>Oloptum thomasii</i> (Duby) Banfi & Galasso	NP LOM	The record by Federici and Zero (2025) is an error (Banfi, pers. comm.)
Orchidaceae	<i>Ophrys bertolonii</i> Moretti subsp. <i>benacensis</i> (Reisigl) P.Delforge	P TOS	Grillini and Centurione (2023)
Poaceae	<i>Phalaris paradoxa</i> L.	A CAS PIE	Selvaggi et al. (2025)
Saxifragaceae	<i>Saxifraga hirculus</i> L.	NP ITA: NP VDA, NP PIE	Selvaggi et al. (2025)
Caryophyllaceae	<i>Silene cretica</i> L.	NC ABR	Misprint in Bartolucci et al. (2024)
Asteraceae	<i>Scorzoneroides montana</i> (Lam.) Holub subsp. <i>melanotricha</i> (Vierh.) Gutermann	P LOM	Bona (2019), Leoni and Perico (2025)
Poaceae	<i>Stipa syreistschikowii</i> P.A.Smirn.	NP ITA	Species recorded by Valdés and Scholz (2009 [onwards]) based on a personal communication by H. Scholz, 2003) and

			retrieved by POWO (2025). Recorded by mistake (E. Banfi, pers. comm.).
Asteraceae	<i>Taraxacum aquilonare</i> Hand.-Mazz.	D ABR	Misprint in Bartolucci et al. (2018, 2024). See Conti and Tinti (1998), Conti and Bartolucci (2016).
Lamiaceae	<i>Thymus apulus</i> Bartolucci & F.Conti	E, P ITA; P PUG, P BAS	Bartolucci and Conti (2025)
Lamiaceae	<i>Thymus striatus</i> Vahl subsp. <i>striatus</i>	P ABR, P LAZ	Bartolucci and Conti (2025)
Fabaceae	<i>Trifolium dubium</i> Sibth.	P VDA	Guarino et al. (2024)
Fabaceae	<i>Vicia barbatoii</i> Scafidi, Ranno & Cambria	E, P ITA; P SIC	Cambria et al. (2025)
Fabaceae	<i>Vicia tenuifolia</i> Roth subsp. <i>elegans</i> (Guss.) Nyman	D TOS, D MAR, D LAZ, D CAM, D BAS, D CAL	Cambria et al. (2025)
Fabaceae	<i>Vicia lentoides</i> (Ten.) Coss. & Germ.	P PIE	Selvaggi et al. (2006)
Iridaceae	<i>Xiphion xiphium</i> (L.) M.B.Crespo, Mart.Azorín & Mavrodiev	A CAS TOS	Gestri et al. (2023)

4. Synonyms, misapplied or included names

Family	Synonym, misapplied or included name	Accepted name	References/Note
Rosaceae	? <i>Sorbus istriaca</i> Kárpáti	<i>Hedlundia austriaca</i> (Beck) Sennikov & Kurtto	
Rosaceae	? <i>Sorbus slavnicensis</i> Kárpáti	<i>Hedlundia austriaca</i> (Beck) Sennikov & Kurtto	
Rosaceae	<i>Crataegus drepanensis</i> Raimondo, P.Marino & Scuderi	<i>Crataegus azarolus</i> L.	
Rosaceae	<i>Crataegus zichichii</i> Raimondo, Spadaro & Venturella	<i>Crataegus laevigata</i> (Poir.) DC.	
Euphorbiaceae	<i>Euphorbia esula</i> L. subsp. <i>saratoi</i> (Ardoino) P.Fourn.	<i>Euphorbia tommasiniana</i> Bertol.	Reichert et al. 2018
Euphorbiaceae	<i>Euphorbia saratoi</i> Ardoino	<i>Euphorbia tommasiniana</i> Bertol.	Reichert et al. 2018
Euphorbiaceae	<i>Euphorbia virgata</i> Waldst. & Kit.	<i>Euphorbia esula</i> L. subsp. <i>tommasiniana</i> (Bertol.) Kuzmanov	Reichert (2018), POWO (2025)
Euphorbiaceae	<i>Euphorbia virgata</i> Waldst. & Kit.	<i>Euphorbia tommasiniana</i> Bertol.	Reichert et al. 2018
Valerianaceae	<i>Fedia cornucopiae</i> (L.) Gaertn. subsp. <i>graciliflora</i> (Fisch. & C.A.Mey.) Nyman	<i>Fedia graciliflora</i> Fisch. & C.A.Mey.	
Valerianaceae	<i>Fedia cornucopiae</i> (L.) Gaertn. var. <i>graciliflora</i> (Fisch. & C.A.Mey.) Ball	<i>Fedia graciliflora</i> Fisch. & C.A.Mey.	
Asteraceae	incl. <i>Leontodon biscutellifolius</i> DC.	<i>Leontodon crispus</i> Vill. subsp. <i>crispus</i>	Conti et al. (2025)

Asteraceae	incl. <i>Leontodon crispus</i> var. <i>biscutellifolius</i> (DC.) F.Conti	<i>Leontodon crispus</i> Vill. subsp. <i>crispus</i>	Conti et al. (2025)
Orchidaceae	<i>Ophrys temperans</i> Soca	<i>Ophrys holosericea</i> (Burm.f.) Greuter	

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