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FLORA AND FUNGA RECORDS

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Notulae to the Italian native vascular flora: 20

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Abstract

In this contribution, new data concerning the distribution of native vascular flora in Italy are presented. It includes new records, confirmations, and exclusions to the Italian administrative regions for taxa in the genera *Aethusa*, *Alchemilla*, *Astragalus*, *Avena*, *Carex*, *Centaurea*, *Centranthus*, *Chenopodiastrum*, *Crepis*, *Elatine*, *Filago*, *Gagea*, *Lamium*, *Lappula*, *Lisymachia*, *Nymphoides*, *Onobrychys*, *Plantago*, *Pseudopodospermum*, *Salix*, *Seseli*, *Stachys*, *Ulmus*. A new combination in the genus *Valeriana* (*V. pontecorvi*) is proposed. Nomenclatural and distribution updates, published elsewhere, and corrigenda are provided as Suppl. material 1.

Keywords

Endemic taxa, floristic data, Italy, nomenclature, taxonomy

How to contribute

The text for the new records, exclusions, and confirmations should be submitted electronically to Lorenzo Lastrucci (lorenzo.lastrucci@unifi.it). The corresponding specimen along with its scan or photograph have to be sent to FI Herbarium: Sezione di Botanica "Filippo Parlatore" del Museo di Storia Naturale, Via G. La Pira 4, 50121 Firenze (Italy). Those texts concerning nomenclatural novelties and typifications (only for accepted names) should be submitted electronically to: Fabrizio Bartolucci (fabrizio.bartolucci@gmail.com). Each text should be within 1,000 characters (spaces included).

Floristic records of native taxa

Aethusa cynapium L. subsp. *cynapium* (Apiaceae)

– **CAM**: Subspecies to be excluded from the flora of Campania.

***Aethusa cynapium* L. subsp. *elata* (J.Friedl. ex Hoffm.) Schübl. & G.Martens (Apiaceae)**

? **CAM**: Subspecies doubtfully occurring in Campania.
0 **LAZ**: Subspecies to be confirmed for Lazio.

In the framework of the botanical voyages for the *Flora napolitana* project, Casale and Gussone (1811a) reported "*Aethusa cynapium*" for the province of Avellino. All the following reports for the same area (Casale 1901, under the name *A. cynapium*; Fiori 1925, under the name *A. cynapium* var. *domestica* Wallr.; Pignatti 1982), very likely also that in Cassitto (1837, under the name *A. cynapium*), are based on them. The same authors reported *A. cynapium* also for the cultivated and hilly places of the District of Castellammare (Peninsula of Sorrento) (Casale and Gussone 1811b). Therefore Tenore (1811: XIX) listed *A. cynapium* without any further detail first for the Kingdom of Naples and later for the province of Naples (Tenore 1823). Later, he became aware that the previous indications were to be referred to *A. cynapium* subsp. *elata* instead (Tenore 1824–1829, under the name *A. cynapioides*). However, he reported this taxon only for northern Abruzzo (based on Gussone 1826). Then, Tenore (1831) did not report anymore *A. cynapium* for the Kingdom and added to the localities of *A. cynapioides* also Mt. S. Angelo di Castellammare (Peninsula of Sorrento) (cf. Paoletti 1900; indication not received by Bartolucci et al. 2024). Finally, he recognized the typical *A. cynapium* in a plant gathered in present-day Lazio (Picinisco, Frosinone) (Tenore 1835–1838). None of the two subspecies has been observed anymore in Campania, and, for example, the indication from the Peninsula was considered as erroneous already by Guadagno (Sched. G780, NAP). In NAP only two specimens are present in Tenore's collection, both originating from the Botanical Garden of Naples. In the "Gussone Generale" collection, there are no specimens of *A. cynapium* subsp. *cynapium* from Italy and none *A. cynapium* subsp. *elata* from modern Campania. On the contrary, a sample collected in 1834 in the same place in Lazio cited by Tenore (1835–1838) for *A. cynapium*, was correctly labelled by Gussone as *A. cynapioides* (NAP0007046) and so reported in Tenore and Gussone (1843).

E. Del Guacchio, R. Vallariello

***Alchemilla lasenii* S.E.Fröhner (Rosaceae)**

+ **LAZ**: Accumoli (Rieti), Agro Nero - Illica (WGS84: 42.701621°N, 13.309296°E), conca umida torbosa, suolo arenaceo, 1510 m, 31 July 2024, Leg. *G. Tondi*, *R. Di Pietro*, Det. *F. Festi* (FI; *Herb. Tondi*). – Species new for the flora of Lazio.

The finding of this population significantly extends the disjunct Apennine range of this endemic Alpine species (Buccomino et al. 2023).

F. Festi, R. Di Pietro, G. Tondi

***Alchemilla tirolensis* Buser (Rosaceae)**

+ **LAZ**: Accumoli (Rieti), Agro Nero - Illica (WGS84: 42.701621°N, 13.309296°E), conca umida torbosa, suolo arenaceo, 1510 m, 31 July 2024, Leg. *G. Tondi*, *R. Di*

Pietro, Det. *F. Festi* (FI; *Herb. Tondi*); *ibidem*, (WGS84: 42.705304°N, 13.324429°E), prato montano fresco, scendendo dal Lago Secco alla Sorgente dell'Agro Nero, lungo il sentiero 375; suolo arenaceo, 1520 m, 18 June 2023, Leg. *G. Tondi*, Det. *G. Tondi*, Conf. *F. Festi* (*Herb. Tondi*); Picinisco (Frosinone), Monte Cavallo (WGS84: 41.651163°N, 13.959077°E), prato acquitrinoso, presso la Sorgente del Maresciallo, suolo calcareo, 1700 m, 28 June 2022, Leg. *G. Tondi*, *F. Minutillo*, Det. *F. Festi* (*Herb. Tondi*). – Species new for the flora of Lazio.

The finding of this population extends the range of the species southwards.

F. Festi, R. Di Pietro, G. Tondi

***Astragalus hypoglottis* L. subsp. *gremlii* (Burnat) Greuter & Burdet (Fabaceae)**

+ **PUG**: Biccari (Foggia), a monte di Lago Pescara (WGS84: 41.3669504°N, 15.1694186°E), Scarpata al margine del sentiero, 985 m, 22 April 2025, Leg. *G. Pellegrino*, Det. *L. Forte*, *G. Pellegrino* (FI, BI No. 60261). – Species and subspecies new for the flora of Puglia.

This taxon was previously reported from the Monti Dauni, specifically in the Monte Cornacchia area, although with some doubts, as it was observed exclusively in the fruiting stage (Wagensommer et al. 2014).

L. Forte, G. Pellegrino

***Avena barbata* Pott ex Link (Poaceae)**

+ **VDA**: Montjovet (Aosta), Frazione Bocard, lungo l'autostrada Torino-Aosta, (WGS84: 45.714727°N, 7.670527°E), scarpata autostradale, 381 m, 21 May 2025, *M. Lonati*, *G. Nota* (FI). – Species new for the flora of Valle d'Aosta.

The species has also been observed in other locations of the lower Aosta Valley, such as in the municipalities of Verrès and Arnad.

M. Lonati, G. Nota

***Carex buxbaumii* Wahlenb. (Cyperaceae)**

– **ABR**: Species to be excluded from the flora of Abruzzo.

The records of this species by Conti et al. (1990, 2019, 2020) should be referred to *C. hartmaniorum* A.Cajander (see below).

***Carex hartmaniorum* A.Cajander (Cyperaceae)**

+ **ABR**: Palena (Chieti), Quarto del Barone, prati umidi, 1300 m, 23 May 2000, *F. Conti* (APP No. 10854); Ovindoli (L'Aquila), Val D'Arano, 1300–1350 m, 23 July 2001, *G. Ciaschetti* (APP No. 68475); Rivisondoli (L'Aquila), Quarto del Barone, prati umidi, 1250 m, 19 July 2015, *G. Ciaschetti* (Herb. Maiella); Palena (Chieti), Quarto di S. Chiara, prati umidi, 1250 m, 19 June 2016, *G. Ciaschetti* (Herb. Maiella, three sheets); Ovindoli (L'Aquila), Val D'Arano (WGS84: 42.130005°N, 13.555773°E), prati umidi, 1330 m, 18 June 2025, *F. Conti* (APP No. 73375); Ovindoli (L'Aquila), Piana di Ovin-

doli (WGS84: 42.140002°N, 13.525366°E), prati umidi, 1350 m, 18 June 2025, *F. Conti* (APP nos 73377, 73378, 73380; FI). – Species new for the flora of Abruzzo.

Thanks to the review of the herbarium material preserved in APP and *Herb. Maiella*, previously identified as *C. buxbaumii* (Conti et al. 1990, 2019, 2020), it was possible to ascertain the presence of *C. hartmaniorum*, new for the Apennines.

F. Conti, F. Bartolucci, J. Koopman

***Centaurea dichroantha* A.Kern. (Asteraceae)**

+ **VEN**: Soverzene (Belluno), Val Gallina (WGS84: 46.21881°N, 12.30323°E), magredo, 425 m, 6 July 2024, Leg. et Det. *G. Roffarè*, *C. Argenti*, Conf. *F. Martini* (FI, Herb. Argenti). – Species confirmed for the flora of Veneto.

This species is reported for Veneto in province of Belluno ("segnalata anche in Comelico", Pignatti 1982; Pignatti et al. 2018). This record was not considered in Argenti et al. (2019) and has never been confirmed.

G. Roffarè, C. Argenti

***Centaurea jacea* L. subsp. *angustifolia* (DC.) Gremli (Asteraceae)**

+ **BAS**: Policoro (Matera), Bosco Pantano Soprano (WGS84: 40.1718195°N, 16.6487746°E), incolto umido argilloso, 20 m, 27 September 2023, Leg. *G. Pellegrino*, Det. *G. Pellegrino*, *L. Forte* (FI; BI Nos 59478, 59479, 59480). – Subspecies new for the flora of Basilicata.

This subspecies was recently reported from Puglia (Bartolucci et al. 2023), and was discovered in Basilicata during fieldwork for a MSc Thesis (Pellegrino 2025).

G. Pellegrino, L. Forte

***Centranthus angustifolius* (Mill.) DC. subsp. *angustifolius* (Valerianaceae)**

+**TOS**: Molazzana (Lucca), Alpi Apuane, anello del Monte Rovaio, macereto a ridosso del sentierino verso Trescola, 980 m (WGS84: 44.058888°N, 10.338611°E), 19 June 2024, *A. Soldano 20011* (FI). – Species new for the flora of Toscana.

This species was not recorded in the recent flora of the Apuan Alps (Pierini and Peruzzi 2025).

A. Soldano

***Chenopodiastrum hybridum* (L.) S.Fuentes, Uotila & Borsch**

+**TOS**: Sorano (Grosseto), loc. Palazzina (WGS84: 42.711669°N, 11.800137°E), comunità pioniere nitrofile a fenologia tardo primaverile-estiva sviluppate su colture sarchiate non irrigue, 471 m s.l.m., 05 June 2025, Leg. *F. Mascia*, Det. *F. Mascia & C. Angiolini* (FI, SIENA). – Species confirmed for the flora of Toscana.

This species is reported for Toscana (Bartolucci et al. 2024); however, the related records mostly refer to historical findings, and only two recent records exist for the

Province of Prato (Stampi 1967; Gestri 2009), one of which is considered doubtful (Peruzzi and Bedini 2013). In both cases, subsequent floristic studies for the same locations did not confirm the presence of the species (Gestri and Peruzzi 2016; Gestri and Lazzeri 2021). No recent herbarium specimens are available at FI herbarium. The present finding represents the unique recent record supported by herbarium specimens confirming the occurrence of the species in the regional territory.

F. Mascia, C. Angiolini

***Crepis neglecta* L. subsp. *corymbosa* (Ten.) Nyman (Asteraceae)**

+ **LAZ**: Ceprano (Frosinone) (WGS84: 41.552337°N, 13.457593°E), schiarita all'interno del querceto di Via Comuni, suolo arenaceo, 137 m, 11 May 2024, Leg. *F. Minutillo*, *G. Tondi*, Det. *F. Minutillo* (FI; *Herb. Tondi*). – Subspecies new for the flora of Lazio.

F. Minutillo, G. Tondi

***Elatine brochonii* Clavaud (Elatinaceae)**

+ **ITALIA** (**SAR**): La Maddalena (Sassari), Caprera, Fosso Stefano (WGS84: 41.219087°N, 9,464109°E), rive sabbiose di bacino artificiale, Leg. *A. Ruggero, A. Di Giacomo,* Det. *A. Ruggero, G. Bacchetta* (CAG). – Species new for the Italian flora (Sardegna).

This species is native to the Mediterranean-Atlantic area, and is characterized by small and limited populations in Algeria (de Bélair 2005; Rhazi et al. 2007), Corsica (Lorenzoni and Paradis 1997; Delage and Hugot 2020), continental France (Chammard et al. 2019), Morocco (Rhazi et al. 2007), Portugal (Porto et al. 2012) and Spain (Cirujano and Velayos 1996; Benito Alonso 2010; Lopez Udias and Fabregat Llueca 2011). The only population found in Sardegna grows on the banks of an artificial reservoir and appears in late spring, when the freshwater surface area shrinks, leaving large portions free for the development of hygrophilous and heliophilous therophytic vegetation belonging to the *Isoëtion* Br.-Bl. 1936 alliance, and more specifically to the *Elatino brochonii-Juncetum pygmaei* Lorenzoni & Paradis ex Benito Alonso 2010 association (Reymann et al. 2016). *Elatine brochonii* colonises wet sands just above the water level, in a small corner of the reservoir.

G. Bacchetta, A. Ruggero

***Filago congesta* Guss. ex DC. (Asteraceae)**

+ **SAR**: Cagliari, promontorio di Cala Mosca, sul sentiero per la Sella del Diavolo (WGS84: 39.183661°N, 9.157292°E), 50–80 m s.l.m., 30 March 2025, *G. Calvia* (FI, Herbarium Calvia). – Species confirmed for the flora of Sardegna.

This species was reported in Sardegna by Fiori (1927), who referred to a herbarium specimen collected by Marcucci in 1866 on the hill of Bonaria (Cagliari), preserved in FI. Later, Arrigoni (2015) considered it as possibly extinct on the island, and Bartolucci et al. (2018, 2024) did not confirm its presence. However, this species still persists on the calcareous hills of Cagliari, particularly in areas such as Monte Urpinu and Capo Sant'Elia, in barren and open habitats, where it sometimes grows alongside *F. pygmaea*.

G. Calvia, F. Mascia

***Gagea minima* (L.) Ker Gawl. (Liliaceae)**

+ **ABR**: Rocca di Mezzo (L'Aquila), V. di Fùndoli (WGS84: 42.184331°N, 13.557976°E), radure e margine faggeta, 1378 m, 2 May 2025, *F. Bartolucci* (APP No. 73371; FI). – Species new for the flora of Abruzzo.

F. Bartolucci, F. Conti

***Lamium bifidum* Cirillo subsp. *bifidum* (Lamiaceae)**

+ **VEN**: Villorba (Treviso) (WGS84: 45.74955°N, 12.21524°E), nitrophilous margin of a hedge, mainly composed of *Sambucus nigra* and *Robinia pseudoacacia*, along a road; the site is in the high venetian plain area characterized by low naturalness, high population density and intensive agriculture, 54 m a.s.l., 23 March 2025, Leg. *K. Zanatta*, Det. *K. Zanatta*, *J. Nascimbene* (FI; *Herb. Zanatta*). – Subspecies new for the flora of Veneto.

This species has a Steno-Mediterranean distribution and an almost ruderal ecology. Both climate warming and human disturbance could have favored its northward migration in Italy.

K. Zanatta, J. Nascimbene

***Lappula squarrosa* (Retz.) Dumort. (Boraginaceae)**

+ **TOS**: Firenze (Firenze), Via Romana all'incrocio con Via de' Mori (WGS84: 43.763193°N, 11.244352°E), spigolo tra il muro e la strada, 90 m, 8 May 2025, *F. Selvi* (FI). – Species confirmed for the flora of Toscana.

In the locality here reported, a few plants of this species were growing on the sidewalk close to a wall of Giardino Corsi. The only known collection of this species from Toscana dates back to 1876 (29 July 1876, *A. Mori*, MOD) and comes from "Boscolungo" a locality near Abetone in the northern Apennines (province of Pistoia). In the 19th century, this species was sporadically observed in some other localities of the Tuscan Apennines (Lunigiana, Garfagnana), around Lucca and Firenze and possibly upper Maremma, but it was considered possibly extinct in the region (Selvi and Cecchi in Arrigoni 2019) and hence not confirmed by Bartolucci et al. (2024). The present finding is thus a confirmation of the species for the Tuscan flora, though the presence in the historical center of Firenze is most likely casual, of uncertain origin and not stable.

F. Coltri, F. Selvi

***Lisymachia monellii* (L.) U.Manns & Anderb. (Primulaceae)**

– **SAR**: Species to be excluded from the flora of Sardegna.

This species has been reported in Sardegna since Moris (1827), being widely present in the Sassarese and, in particular, in the Iglesiente and on the island of S. Pietro. Both red-flowered and blue-flowered specimens have been reported under this epithet, as this trait was considered part of intraspecific variation. However, molecular analyses by Jiménez-López et al. (2022) have demonstrated that the two-colour typologies constitute independent

species: *L. monellii* (blue flowers) and *L. collina* (Schousb.) F.J.Jiménez López (red flowers). Only red-flowered individuals are present in Sardegna, which therefore refer to *L. collina*.

M. Fois, L. Podda

***Plantago altissima* L. (Plantaginaceae)**

+ **UMB**: Foligno (Perugia), Palude di Colfiorito, Parco Regionale di Colfiorito (WGS84: 43.018341°N, 12.871559°E), prato umido periodicamente allagato a margine della palude, 755 m, 30 April 2025, Leg. *G. Bonari*, *F. Candini*, *V. González-García*, Det. *G. Bonari*, *V. González-García* (FI). – Species new for the flora of Umbria.

G. Bonari, F. Candini

***Pseudopodospermum hispanicum* (L.) Zaika, Sukhor. & N.Kilian subsp. *neapolitanum* (Grande) Bartolucci, Galasso & F.Conti (Asteraceae)**

+ **PUG**: Gravina in Puglia (Bari), Bosco Selva (WGS84: 40.756224°N, 16.492808°E), margine boschivo, 438 m, 17 May 2025, *G. Silletti*, det. *F. Bartolucci*, *G. Silletti* (APP Nos 73381, 73383; FI). – Subspecies confirmed for the flora of Puglia.

This subspecies was formerly indicated by Trotter and Romano (1914, under the name *Scorzonera hispanica* L. var. *trachisperma*) for "Bosco Aquara" at Monte Crispigliano (Daunia Mountains).

F. Bartolucci, G. Silletti

***Salix eleagnos* Scop. (Salicaceae)**

+ **PUG**: Orsara di Puglia (Foggia), località Le Querce/C. Forestale (WGS84: 41.265599°N, 15.339151°E), lungo il corso superiore del torrente Cervaro (Monti Dauni) in area inondabile immediatamente all'esterno della fascia ripariale arborata, altitudine 380 m, esposizione Sud, 21 June 2025, *G. Pappagallo* (FI). – Species new for the flora of Puglia.

G. Pappagallo

***Seseli annuum* L. subsp. *annuum* (Apiaceae)**

– **ABR**: Species to be excluded from the flora of Abruzzo.

The record of this species (Conti et al. 2025) should be referred to *S. pallasii* Besser (see below).

***Seseli pallasii* Besser (Apiaceae)**

+ **ABR**: Terranera (L'Aquila), nei pressi dell'abitato lungo la SP38 (WGS84: 42.237641°N, 13.52913°E), pascoli aridi pietrosi, 1292 m, 23 September 2024, *F. Bartolucci* (APP No. 72771); *ibidem*, 12 Jul 2025, *F. Bartolucci* (APP No. 73467; FI). – Species new for the flora of Abruzzo.

F. Bartolucci, F. Conti

***Stachys romana* (L.) E.H.L.Krause (Lamiaceae)**

+ **PIE**: Alto (Cuneo), sotto Strada Provinciale 216 (WGS84: 44.108629°N, 7.995099°E), prateria xerica, 760 m, 8 April 2025, Leg. *D. Barberis*, Det. *D. Barberis*, *G. Marengo*, *G. Nota* (FI). – Species confirmed for the flora of Piemonte.

This species was reported in Piemonte as an erroneous record (Bartolucci et al. 2024). The present finding at the described locality, along with another site in the municipality of Alto (WGS84: 44.108629°N, 7.995099°E) is near the Ligurian border.

D. Barberis, G. Nota

***Ulmus minor* Mill. subsp. *canescens* Bartolucci & Galasso (Ulmaceae)**

+ **BAS**: Policoro (Matera), Bosco Pantano Soprano (WGS84: 40.1711897°N, 16.6489122°E), bosco misto planiziale, 20 m, 30 September 2024, Leg. *G. Pellegrino*, Det. *G. Pellegrino*, *L. Forte* (BI No. 59518, FI). – Subspecies new for the flora of Basilicata.

This subspecies was detected during fieldwork for a MSc Thesis (Pellegrino 2025).

G. Pellegrino, L. Forte

Floristic records of regional alien taxa

***Crepis foetida* L. subsp. *rhoeadifolia* (Asteraceae)**

+ (NAT) **LAZ**: Lago di Posta Fibreno (Posta Fibreno, Frosinone) (WGS84: 41.694300°N, 13.692528°E), incolto al bordo meridionale del lago; suolo calcareo, 290 m, 2 July 2022, Leg. *F. Minutillo*, *G. Tondi*, Det. *G. Galasso* (FI; *Herb. Tondi*). – Naturalized regional alien subspecies new for the flora of Lazio.

The species was recently recorded as casual alien by Pinzani et al. (2025).

F. Minutillo, G. Tondi

***Nymphoides peltata* (S.G.Gmel.) Kuntze (Menyanthaceae)**

+ (NAT) **CAL**: Fagnano Castello (Cosenza), lago della Paglia (WGS84: 39.560946°N, 16.018152°E), presso la sponda settentrionale del bacino, 1.061 m s.l.m., 14 giugno 2025, *C. Terranova*, *M. Gallo Splendore* (FI). – Naturalized regional alien species new for the flora of Calabria.

Nymphoides peltata is distributed in central-northern Italy and Sardegna (Bartolucci et al. 2024). This species was first detected in Calabria four years ago with a single individual occupying an area with a diameter of approximately 1 m^2. To date, the species is expanding and the area it occupies exceeds 50 square metres. The geographic remoteness of other Italian populations could exclude the spread through hydrochory and ectozoochory (Cook 1990) and intentional introduction by humans is plausible.

C. Terranova, M. Gallo Splendore

***Onobrychys viciifolia* Scop. (Fabaceae)**

+ (NAT) **SAR**: Ozieri (Sassari), Svincolo della SS 729 per Chilivani (WGS84: 40.648575°N, 8.952994°E), cigli stradali, scarpate. 200–220 m s.l.m., 20 April 2025, *G. Calvia* (FI, *Herbarium Calvia*). – Status change from casual to naturalized alien for the flora of Sardegna.

This species was cultivated as fodder in Sardegna since XVIII (Gemelli 1776) and XIX century (Ottavi 1862). The first records of this species as subspontaneous on the island refer to herbarium specimens collected by Masala in 1862 and 1864 (preserved in TO). More recently, Arrigoni (2010) considered this species as cultivated and occasionally subspontaneous along field margins near Olbia (Olbia-Tempio), Bonorva (Sassari), and Ottana (Nuoro). Based on this, Bartolucci et al. (2018, 2024) listed it as a casual alien species. However, in recent years, we have observed a significant spread of the species, especially along major roads in northern Sardegna. Notably, large populations are present along the SS 729 (Sassari-Olbia) and adjacent roads in the municipalities of Monti (Olbia-Tempio, near the junction with SP 147 and surrounding areas, then in loc. Chirialza), Ozieri (Sassari, abundant near the junction with SP 63), Codrongianos (Sassari, near the intersection of SS 729 with SS 131) and Bonorva (Sassari, near the junction between SS 131 and the road leading to the town). An additional occurrence is from Ossi (Sassari) along SP 97, in the locality of Roccabianca.

G. Calvia, G. Bertotto

Nomenclatural novelties

***Valeriana pontecorvi* (Bacch. & Brullo) Bacch., Bartolucci & Galasso, comb. nov.**
urn:lsid:ipni.org:names:77372968-1

≡ *Centranthus pontecorvi* Bacch. & Brullo, Phytotaxa 661(3): 255. 2024 [1 August 2024].

Note. According to recent molecular phylogenetic studies the genus *Centranthus* DC. form a well-supported monophyletic clade nested within the larger genus *Valeriana* L. (De Castro et al. 2025; De Luca and De Castro 2025). The *Centranthus* taxa to be transferred to *Valeriana* occurring in Italy (Bartolucci et al. 2024; Galasso et al. 2024) are: *Valeriana angustifolia* Mill. [≡ *Centranthus angustifolius* (Mill.) DC.], *V. amazonum* (Fridl. & A.Raynal) Christenh. & Byng [≡ *Centranthus amazonum* Fridl. & A.Raynal], *V. calcitrapae* L. [≡ *Centranthus calcitrapae* (L.) Dufr.], *V. macrosiphon* (Boiss.) E.Vilm. [≡ *Centranthus macrosiphon* Boiss.], and *Valeriana rubra* L. [≡ *Centranthus ruber* (L.) DC.].

G. Bacchetta, F. Bartolucci, G. Galasso

Nomenclatural and distribution updates from other literature sources

Nomenclatural and distribution updates, and corrigenda to Bartolucci et al. (2024) according to Cristofolini (1976), Conti and Tinti (1998), Bateman et al. (2003), Selvaggi et al. (2006, 2025), Allegrezza et al. (2007), Valdés and Scholz (2009), Conti et al. (2011), Benigni and Mandozzi (2013), Tison and de Foucault (2014), Conti and Bartolucci (2016), Coulot and Rabaute (2016), Pignatti et al. (2017), Reichert et al. (2018), Bona (2019), Cresti et al. (2019), Di Natale et al. (2020), Viciani et al. (2020), Alijanpoor et al. (2021), Bateman (2021), Benigni et al. (2021), Gestri et al. (2022, 2023), Bovio (2023), Grillini and Centurione (2023), Biagioli and De Simoni (2024), Guarino et al. (2024), Sennikov and Tikhomirov (2024), Spadaro et al. (2024), Argenti (2025), Bartolucci et al. (2025), Bartolucci and Conti (2025), Calvia et al. (2025), Cambria et al. (2025), Conti et al. (2025), Compton (2025), Dovana et al. (2025), Federici and Zero (2025), Ferrer-Gallego et al. (2025), Foggi et al. (2025), Iamonico (2025), Iamonico et al. (2025), Kadereit (2025), Kozlowski et al. (2025), Leoni and Perico (2025), Lyskov et al. (2025), Mosyakin et al. (2025), Peruzzi et al. (2025), Ravasio (2025), Šegota et al. (2025), Scafidi (2025), Selvi et al. (2025), Sochor et al. (2025), and Voisin et al. (2025) are provided in Suppl. material 1. The updates presented in Domina et al. (2025) will be integrated directly in the Portal to the Flora of Italy.

F. Bartolucci, G. Galasso

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References

Alijanpoor B, Khodayari H, Assadi M, Rahiminejad M, Mehregan I (2021) A taxonomic revision of *Rhamnus* L. and *Atadinus* Raf. (Rhamnaceae) in Iran. Phytotaxa 521(3): 127–158. https://doi.org/10.11646/phytotaxa.521.3.1

Allegrezza M, Ballelli S, Giammarchi F (2007) Gli Habitats d'interesse Comunitario nell'anfiteatro montuoso della Valle della Corte (Monti della Laga – Appennino centrale). Fitosociologia 44(2)(suppl. 1): 133–140.

Argenti C (2025) Elenco annotato delle specie della flora vascolare della provincia di Belluno (Regione Veneto, Italia NE) – 1 (A–*Hibiscus*). An annotated checklist of the vascular flora of the Belluno province (Veneto Region – NE Italy) – 1 (A–*Hibiscus*). Natura Vicentina 23 [2023–2024]: 41–99.

Argenti C, Masin R, Pellegrini B, Perazza G, Prosser F, Scortegagna S, Tasinazzo S (2019) Flora del Veneto, dalle Dolomiti alla laguna veneziana, 1–2. Cierre Edizioni, Sommacampagna (Verona).

Arrigoni PV (2010) Flora dell'Isola di Sardegna, Vol. 3. Carlo Delfino Editore, Sassari.

Arrigoni PV (2015) Flora dell'Isola di Sardegna, Vol. 5. Carlo Delfino Editore, Sassari.

Arrigoni PV (2019) Flora analitica della Toscana, Vol. 6. Edizioni Polistampa, Firenze.

Bacchetta G, Cambria S, De Castro O, Fenu G, Brullo S (2024) *Centranthus pontecorvi* (Valerianaceae) a new species from Sardinia. Phytotaxa 661(3): 253–266. https://doi.org/10.11646/phytotaxa.661.3.3

Bona E (2019) Secondo contributo per un Atlante della biodiversità del bacino superiore del Fiume Oglio. Flora Vascolare. Parco dell'Adamello.

Bartolucci F, Conti F (2025) *Thymus apulus* (*T.* sect. *Hyphodromi*, Lamiaceae), a new species from southern Italy. Plants 14(23): 3584. https://doi.org/10.3390/plants14233584

Bartolucci F, Tison J-M, Galasso G (2025) Typification of the name *Allium cirrhosum* Vand. (Amaryllidaceae). Italian Botanist 20: 1–8. https://doi.org/10.3897/italianbotanist.20.159744

Bartolucci F, Domina G, Adorni M, Bacchetta G, Bajona E, Banfi E, Barbadoro F, Biscotti N, Bonsanto D, Conti F, Da Pozzo M, Dagnino D, De Fine G, Del Guacchio E, Forte L, Di Gristina E, Galasso G, Ghillani L, Gottschlich G, Gubellini L, Laface VLA, Lasen C, Lonati M, Mainetti A, Mascia F, Mazzacuva G, Musarella CM, Orsenigo S, Passalacqua NG, Pazienza G, Pinzani L, Rodi ES, Santi F, Sáez L, Selvaggi A, Tomaselli V, Torino L, Zidorn C, Lastrucci L (2023) Notulae to the Italian native vascular flora: 15. Italian Botanist 15: 91–109. https://doi.org/10.3897/italianbotanist.15.105796

Bartolucci F, Peruzzi L, Galasso G, Albano A, Alessandrini A, Ardenghi NMG, Astuti G, Bacchetta G, Ballelli S, Banfi E, Barberis G, Bernardo L, Bouvet D, Bovio M, Cecchi L, Di Pietro R, Domina G, Fascetti S, Fenu G, Festi F, Foggi B, Gallo L, Gottschlich G, Gubellini L, Iamonico D, Iberite M, Jiménez-Mejías P, Lattanzi E, Marchetti D, Martinetto E, Masin RR, Medagli P, Passalacqua NG, Peccenini S, Pennesi R, Pierini B, Poldini L, Prosser F, Raimondo FM, Roma-Marzio F, Rosati L, Santangelo A, Scoppola A, Scortegagna S, Selvaggi A, Selvi F, Soldano A, Stinca A, Wagensommer RP, Wilhalm T, Conti F (2018) An updated checklist of the vascular flora native to Italy. Plant Biosystems 152: 179–303. https://doi.org/10.1080/11263504.2017.1419996

Bartolucci F, Peruzzi L, Galasso G, Alessandrini A, Ardenghi NMG, Bacchetta G, Banfi E, Barberis G, Bernardo L, Bouvet D, Bovio M, Calvia G, Castello M, Cecchi L, Del Guacchio E, Domina G, Fascetti S, Gallo L, Gottschlich G, Guarino R, Gubellini L, Hofmann N, Iberite M, Jiménez-Mejías P, Longo D, Marchetti D, Martini F, Masina RR, Medagli P, Peccenini S, Prosser F, Roma-Marzio F, Rosati L, Santangelo A, Scoppola A, Selvaggi A, Selvi F, Soldano A, Stinca A, Wagensommer RP, Wilhalm T, Conti F (2024) A second update to the checklist of the vascular flora native to Italy. Plant Biosystems 158(2): 219–296. https://doi.org/10.1080/11263504.2024.2320126

Bateman RM (2021) Challenges of applying monophyly in the phylogenetic shallows: taxonomic reappraisal of the *Dactylorhiza maculata* group. Kew Bulletin 76: 675–704. https://doi.org/10.1007/s12225-021-09971-2

Bateman RM, Hollingsworth PM, Preston J, Yi-Bo L, Pridgeon AM, Chase MW (2003) Molecular phylogenetics and evolution of Orchidinae and selected Habenariinae (Orchidaceae). Botanical Journal of the Linnean Society 142: 1–40. https://doi.org/10.1046/j.1095-8339.2003.00157.x

Benigni F, Barigelli G, Petroselli M, Mandozzi A, Monaldi M (2021) Due nuove specie e un nuovo ibrido nelle Marche di *Dactylorhiza elcitoi*, *Dactylorhiza stortonii e Ophrys* × *marcoi*. Micologia nelle Marche 2, n.s.: 41–45.

Benigni F, Mandozzi A (2013) Primo ritrovamento per le Marche di *Dactylorhiza majalis* (Rchb.) P.F. Hunt & Summerh. GIROS Notiz 52: 101–102.

Benito Alonso JL (2010) Aproximación a la flora, la vegetación y la conservación de las lagunas temporales mediterráneas de la provincia de Soria. Flora Montiberica 45: 54–86.

Biagioli M, De Simoni MG [Eds] (2024) Orchidee d'Italia, Ed. 3. Il Castello, Cornaredo (Milano).

Bovio M [Ed.] (2023) Note di aggiornamento al volume Flora vascolare della Valle d'Aosta – 9. Revue Valdôtaine d'Histoire Naturelle 77: 139–152.

Buccomino G, Festi F, Fröhner SE, Tondi G (2023) Nuova segnalazione di *Alchemilla lasenii* S.E. Fröhner (Rosaceae) in Italia (Molise). Annali dei Musei Civici-Rovereto 39: 113–120.

Calvia G, Ruggero A, Fois M, Farris E, Lallai A, Mascia F, Podda L, Campus G, Porceddu M, Bacchetta G (2025) Contribution to a new vascular flora of Sardinia (Italy): II (31– 60). Flora Mediterranea 35: 19–50. https://doi.org/10.7320/FlMedit35.019

Cambria S, Ranno V, Minissale P, Giusso del Galdo G, Salmeri C, Monari D, La Rosa A, Siracusa G, Scafidi F (2025) Notes on the *Vicia tenuifolia* complex with the description of a new species, *V. barbatoi* from Sicily. Taxonomy 5(4): 63. https://doi.org/10.3390/taxonomy5040063

Casale V, Gussone G (1811a) Rapporto della peregrinazione botanica eseguita nel Distretto di Avellino. Giornale Enciclopedico di Napoli, Anno 5(2): 129–186.

Casale V, Gussone G (1811b) Rapporto fatto al Signor Prof. Michele Tenore, Direttore del Real Giardino ec. delle Peregrinazioni Botaniche eseguite nel distretto di Castellammare, ed in quello di Avellino da' Dottori, Vincenzo Casale e Giovanni Gussone, corrispondenti al Real Giardino [!] delle piante, per le provincie di Napoli, e di Principato ulteriore. Giornale Enciclopedico di Napoli, Anno 5(1): 141–182.

Casali C (1901) Flora Irpina. Tipografia E. Pergola, Avellino.

Cassitto F (1837) Flora irpina. Giornale Economico del Principato Ulteriore 2(3–4): 1–157.

Chammard E, Lafon P, Loriot S (2019) Etude préalable à un plan de conservation en faveur du Mouron à feuilles charnues et de l'*Elatine* de Brochon - *Elatine brochonii*. Conservatoire Botanique National Sud-Atlantique, 39 pp [+ annexes]

Cirujano S, Velayos M (1996) *Elatine* L. In: Castroviejo S, Aedo C, Cirujano S, Laínz M, Montserrat P, Morales R, Muñoz Garmendia F, Navarro C, Paiva J, Soriano C. (Eds) Flora Iberica. Vol.3. CSIC, Madrid.

Compton JA (2025) A case study on *Anemone hortensis* L. (Ranunculaceae): the misapplication of *A. pavonina* Lam. and *A. fulgens* (DC) Rchb. has led to taxonomic and nomenclatural confusion. PhytoKeys 263: 71–114. https://doi.org/10.3897/phytokeys.263.158703

Conti F, Bartolucci F (2016) The vascular flora of Gran Sasso and Monti della Laga National Park (Central Italy). Phytotaxa 256(1): 1–119. https://doi.org/10.11646/phytotaxa.256.1.1

Conti F, Tinti D (2008) Il Lago di Campotosto e la sua Flora. Litografia Brandolini. Sambuceto di S. Giovanni Teatino (Chieti).

Conti F, Bartolucci F, Iocchi M, Tinti D (2011) Atlas of the pteridological knowledge of Abruzzo (Central Italy). Webbia 66(2): 251–305. https://doi.org/10.1080/00837792.2011.10670901

Conti F, Pedrotti F, Pirone G (1990) Su alcune piante notevoli rinvenute in Abruzzo, Molise e Basilicata. Archivio Botanico e Biogeografico Italiano 66(3–4): 182–196.

Conti F, Bracchetti L, Dorfner M, Schöpf R, Benda N Oberprieler C (2025) Contribution to the knowledge of *Leontodon* sect. *Asterothrix* (Cass.) Ball in Italy and on the Balkan Peninsula. Biology 14: 1263. https://doi.org/10.3390/biology14091263

Conti F, Ciaschetti G, Di Martino L, Bartolucci F (2019) An annotated checklist of the vascular flora of Majella National Park (Central Italy). Phytotaxa 412(1): 1–90. https://doi.org/10.11646/phytotaxa.412.1.1

Conti F, Bartolucci F, Ciaschetti G, Manzi A, Di Martino L (2020) Flora del Parco Nazionale della Majella 1. Poligrafica Mancini, San Giovanni Teatino (Chieti).

Conti F, Falcinelli F, Bracchetti L, De Santis E, Guiggi A, Manzi A, Palermo D, Muñoz-Rodríguez P, Wood JRI, Bartolucci F (2025) New additions to the vascular flora of central and southern Italy. Flora Mediterranea 35: 5–14. https://doi.org/10.7320/FlMedit35.005

Cook CDK (1990) Seed dispersal of *Nymphoides peltata* (S.G.Gmelin) O.Kuntze (Menyanthaceae). Aquatic Botany 37(4): 325–340. https://doi.org/10.1016/0304-3770(90)90019-H

Coulot P, Rabaute P (2016) Monographie des Leguminosae de France. Tome 4. Tribù des Fabeae, des Cicereae et des Genisteae. Société Botanique du Centre-Ouest, Jarnac, 902 pp.

Cresti L, Schönswetter P, Peruzzi L, Barfuss MHJ, Frajman B (2019) Pleistocene survival in three Mediterranean refugia: origin and diversification of the Italian endemic *Euphorbia gasparrinii* from the *E. verrucosa* alliance (Euphorbiaceae). Botanical Journal of the Linnean Society 189(3): 262–280, https://doi.org/10.1093/botlinnean/boy082

Cristofolini G (1976) I Citisi italiani della sezione "*Tubocytisus*" DC. Webbia 30(2): 257–283. https://doi.org/10.1080/00837792.1976.10670051

Delage A, Hugot L (Eds) (2020) Atlas biogéographique de la flore de Corse. Albiana, Ajaccio.

De Castro O, Menale B, Piazza C, Bacchetta G, Del Guacchio (2025) Can we rescue *Centranthus* (Caprifoliaceae, Valerianoideae) from the *Valeriana* sea? Botanical Journal of the Linnaean Society 209(4): 345–358. https://doi.org/10.1093/botlinnean/boaf019

De Bélair G (2005) Dynamique de la végétation de mares temporaires en Afrique du Nord (Numidie orientale, NE Algérie). Ecologia Mediterranea 31(1): 83–100. https://doi.org/10.3406/ecmed.2005.1481

De Luca D, De Castro O (2025) The plastid genome of the critically endangered *Valeriana trinervis* (= *Centranthus trinervis*) and insights from comparison with other Valeriana plastomes (Caprifoliaceae). Planta 262(4): 100. https://doi.org/10.1007/s00425-025-04815-w

Di Natale S, Lastrucci L, Hroudová Z, Viciani D (2020) A review of *Bolboschoenus* species (Cyperaceae) in Italy based on herbarium data. Plant Biosystems 156(1): 261–270. https://doi.org/10.1080/11263504.2020.1852330

Domina G, Abeli T, Alessandrini A, Argenti C, Angiolini C, Astuti G, Bacchetta G, Bagella S, Ballelli S, Banfi E, Barberis G, Barone G, Bernardo L, Bertolli A, Bianchi E, Bonari G, Bouvet D, Bovio M, Briozzo I, Brullo C, Brullo S, Calvia G, Caria M, Caputo P, Caruso G, Casazza G, Cecchi L, Cibei C, Cogoni D, Conti F, Crisafulli A, Croce A, Dagnino D, Del Guacchio E, Di Gristina E, Di Marzio P, Fanfarillo E, Farris E, Fascetti S, Fenu G, Ferrando U, Fiaschi T, Fortini P, Ferretti G, Fois M, Franzoni J, Galasso G, Galesi R, Ganz C, Gargano D, Giacò A, Gianguzzi L, Giardini M, Giusso Del Galdo G, Guarino R, Gubellini L, Hofmann N, Iamonico D, Iberite M, Laface V, Lallai A, Lastrucci L, Lavezzo P, Lazzaro L, Longo D, Lucchese F, Maiorca G, Manca M, Marchetti D, Marsili S, Martini F, Mascia F, Medagli P, Mondello F, Montagnani C, Mugnai M, Musarella C, Nicolella G, Orsenigo S, Passalacqua N, Peccenini S, Pennesi R, Picone R, Pinzani L, Peruzzi L, Podda L, Prosser F, Rivieccio G, Roma-Marzio F, Rosati L, Salerno G, Santangelo A, Sciandrello S, Selvaggi A, Selvi F, Spampinato G, Stinca A, Tardella F, Tavilla G, Tilia A, Tondi G, Tognon G, Urbani M, Villani M, Wilhalm T, Zappa E, Bartolucci F (2025) Refining the inventory of the vascular flora of Italy: Unconfirmed, doubtful, not present or extinct taxa. Phytotaxa 723(1): 1–137. https://doi.org/10.11646/phytotaxa.723.1.1

Dovana F, Peruzzi L, Noble V, Adamo M, Bonomi C, Mucciarelli M (2025) Delimitation and phylogeny in *Fritillaria* species (Liliaceae) endemic to Alps. Biology 14(7): 785. https://doi.org/10.3390/biology14070785

Federici G, Zero O (2025) 176. *Oloptum thomasii* (Duby) Banfi & Galasso (Poaceae) – Miglio di Thomas. In: Perico G (Ed.) Segnalazioni floristiche. XXIV contributo (167÷186). Notiziario Floristico del Gruppo Flora Alpina Bergamasca 67: 13.

Ferrer-Gallego PP, Fabado J, Catalán P (2025) (3098) Proposal to conserve the name *Brachypodium hybridum* against *Festuca rigida*, *Bromus pentastachyos*, *Brachypodium megastachyum*, and *Brachypodium macrostachyum* (Gramineae, Pooideae). Taxon 74: 975–977. https://doi.org/10.1002/tax.70026

Fiori A (1927) Nuova Flora Analitica d'Italia, Vol. 2. Tipografia M. Ricci, Firenze.

Foggi B, Landi M, Zoccola A, Siccardi E, Angiolini C, Quilghini G, Corti E, Kilian N (2025) *Leontodon montecristensis* (Cichorieae, Asteraceae), a very unlikely new member of the genus discovered on an inaccessible cliff of Montecristo Island (Tuscany, Italy). Plant Biosystems 159(5): 984–995. https://doi.org/10.1080/11263504.2025.2519080

Gemelli F (1776) Rifiorimento della Sardegna proposto nel miglioramento di sua agricoltura, libri tre. Briolo, Torino.

Gestri G (2009) Flora vascolare dei Monti della Calvana (Prato, Toscana). Informatore Botanico Italiano 41(1): 77–123.

Gestri G, Lazzeri V (2021) La Flora vascolare delle Cascine e del Bargo della Villa Medicea di Poggio a Caiano In: Bennati G, Gestri G, Lazzeri V, Le Cascine ed il Bargo della Villa Medicea di Poggio a Caiano (Prato-Toscana) Vicende umane e naturali.

Gestri G, Peruzzi L (2016) Calvana e Monte Morello due rilievi a confronto In: Gei F, Fastelli D, Maetzke FG, Gestri G, Peruzzi L (Eds) Calvana e Monte Morello, due rilievi a confronto. Geografia, geologia, climatologia, rimboschimenti, vegetazione e flora vascolare. Analogie e difformità. Accademia Italiana di Scienze Forestali, Firenze, 127–228.

Gestri G, Pierini B, Peruzzi L, Festi F (2022) Aggiornamento sulla distribuzione del genere *Alchemilla* L. (Rosaceae) in Toscana (Italia centrale). Atti della Società Toscana di Scienze Naturali di Pisa, Memorie Serie B 129: 47–51.

Gestri G, Pierini B, D'Antraccoli M, Bernardini A, Peruzzi L (2023) An updated inventory of the vascular flora of the Cerbaie hills (Tuscany, Italy). Italian Botanist 15: 165–175. https://doi.org/10.3897/italianbotanist.15.105302

Grillini P, Centurione N (2023) Le orchidee della Valle del Sillaro (Asparagales: Orchidaceae). Quaderno di Studi e Notizie di Storia Naturale della Romagna 58: 153–164.

Guarino R, Vynokurov D, Dengler J, Berastegi A, Biurrun I, Garcia-Mijangos I, Janišová M, Lonati M, Nikolei R, Mainetti A, Miskova O, Sánchez-Carmona S, Tyshchenko O, Nota G (2024) (Re)discovery of four annual vascular plant species in dry grasslands in the Southwestern Alps (NW Italy). Palaearctic Grasslands 62: 28–33. https://doi.org/10.21570/EDGG.PG.62.28-33

Gussone G (1826) Plantae rariores quas in itinere per oras Jonii ac Adriatici Maris ert per regionises Samnii et Aprutii collegit Joannes Gussone. Ex Regia Typographia, Neapoli [Naples]. https://doi.org/10.5962/bhl.title.44889

Iamonico (2025) Clarifications about the identity of the names *Sagina alexandrae* and *S. hawaiensis* (Caryophyllaceae). Comprehensive Plant Biology 49(2): 375–379. https://doi.org/10.2298/CPB2502375I

Iamonico D, Verloove F, De Mei S (2025) Uncovering *Cyperus polystachyos* in Europe: nomenclatural insights and new historical records. Plants 14: 3270. https://doi.org/10.3390/plants14213270

Jiménez-López FJ, Viruel J, Arista M, Ortiz PL, Talavera M (2022) Molecular approaches reveal speciation between red and blue flowered plants in the Mediterranean *Lysimachia arvensis* and *Lysimachia monelli* (Primulaceae). Botanical Journal of the Linnean Society 199(2): 557–577. https://doi.org/10.1093/botlinnean/boab081

Kadereit JW (2025) A reversed subspecific classification of *Moehringia bavarica* (Caryophyllaceae). Willdenowia 55: 95–105. https://doi.org/10.3372/wi.55.09

Kozlowski G, Freigang J, Pasta S, Guarino R, Anania F, Champoud L, Garfì G, Silvestre Gristina A, Marcenò C, Picone RM, Crisafulli A (2025) Update on the current occurrence of two rare fern species in Sicily (Italy): *Dryopteris affinis* and *D. robusta* in the Peloritani Mountains. Mediterranean Botany 46(2): e99974. https://doi.org/10.5209/mbot.99974

Leoni G, Perico G (2025) 174. *Scorzoneroides montana* (Lam.) Holub subsp. *melanotricha* (Vierh.) Gutermann (Asteraceae) – Dente di leone montano. In: Perico G (Ed.) Segnalazioni floristiche. XXIV contributo (167÷186). Notiziario Floristico del Gruppo Flora Alpina Bergamasca 67: 12.

López Udias S, Fabregat Llueca C (2011) Nuevos datos para la flora de Aragón. Flora Montiberica 49: 85–95.

Lorenzoni C, Paradis G (1997) Description phytosociologique d'une mare temporaire à *Elatine brochonii* dans le Sud de la Corse. Bulletin de la Société Botanique du Centre-Ouest N.S. 28: 21–46.

Lyskov D, Akalın E, Bagheri A, Terentieva E, Tuncay HO, Kroupsky I, Samigullin T (2025) Break it and better it: molecular and morphological data support the split of *Ferulago* (Api-

aceae) into four genera. Botanical Journal of the Linnean Society: boaf049. https://doi.org/10.1093/botlinnean/boaf049

Moris GG (1827) *Stirpium sardoarum elenchus*. Ex Typiis Regiis, Carali.

Mosyakin SL, Fedoronchuk MM, McNeill J (2025) Simplifying the nomenclature of *Sorbus* sensu lato: new nomenclatural solutions in *Aria* and *Hedlundia* (Rosaceae). Ukrainian Botanical Journal 82(3): 206–224. https://doi.org/10.15407/ukrbotj82.03.206

Ottavi GA (1862) Sui mezzi di migliorare l'agricoltura delle regioni meridionali ed in specie di quella di Sardegna. Tipografia Giuseppe Nani, Casale.

Pellegrino G (2025) Indagine floristica del Bosco Pantano Soprano di Policoro (Basilicata). M.S. Thesis, Natural and Environmental Science, Università degli Studi di Bari "Aldo Moro", Italy.

Peruzzi L, Bedini G [Eds] (2013) Wikiplantbase #Toscana. http://bot.biologia.unipi.it/wpb/toscana/index.html

Peruzzi L, Pierini B, Arduini I, Bedini G, Franzoni J (2025) The vascular flora of Pisa (Tuscany, Central Italy). Plants 14(3): 307. https://doi.org/10.3390/plants14030307

Paoletti G (1900) Umbelliferae. In: Fiori A, Paoletti G (Eds) Flora analitica d'Italia, Vol. 2(1): 138–210. Tipografia del Seminario, Padova [Padua].

Pierini B, Peruzzi L (2025) The vascular flora of the Apuan Alps (Tuscany, Central Italy). Italian Botanist 19: 45–63. https://doi.org/10.3897/italianbotanist.19.145947

Pignatti S (1982) Flora d'Italia, 1–3. Edagricole, Bologna.

Pignatti S, Guarino R, La Rosa M [Eds] (2017) Flora d'Italia, Ed. 2, Vol. 1. Edagricole, Milano.

Pignatti S, Guarino R, La Rosa M [Eds] (2018) Flora d'Italia, Ed. 2, Vol. 3. Edagricole, Milano.

Pinzani L, Di Lernia D, Pelella E, Ceschin S (2025) The vascular flora of Italian volcanic lake calderas: a comprehensive floristic study. Environments 12(9): 327. https://doi.org/10.3390/environments12090327

Porto M, Pereira AJ, Rego R, Farminhão J, Clemente A, Vitorino JL, Tauleigne-Gomes C (2012) *Elatine brochonii* Clavaud (Elatinaceae), a new species to the Portuguese flora. Acta Botanica Malacitana 37: 173–178. https://doi.org/10.24310/abm.v37i0.2688

POWO (2025) [onwards] Plants of the World Online. Facilitated by the Royal Botanic Gardens, Kew. https://powo.science.kew.org/ [Accessed: 19.10.2025]

Ravasio G (2025) 181. *Anacamptis berica* Doro (Orchidaceae) – Orchide dei Colli Berici. In: Perico G (Ed.) Segnalazioni floristiche. XXIV contributo (167÷186). Notiziario Floristico del Gruppo Flora Alpina Bergamasca 67: 14.

Reymann J, Panaiotis C, Bioret F, Bacchetta G, Delage A, Delbosc P, Gamisans J, Gauberville C, Hugot L, O'Deye-Guizen K, Piazza C, Pioli A (2016) Prodrome des végétations de Corse. Document Phytosociologiques, serie 3, 4: 1–175.

Rhazi L, Grillas P, Charpentier A, Rhazi M, Leclainche N, Titolet D, Desnoubes L, Duborper E, Yavercovski N, El Khyari D (2007) Effet de l'hydrologie sur les populations d'une espèce rare des mares temporaires méditerranéennes: *Elatine brochonii* (Elatinaceae). In: Paracuellos M (Ed.), Ambientes Mediterraneos. Funcionamiento, biodiversidad y conservación de los ambientes mediterráneos. Colección Medio Ambiente 2: 185–193. [Almeria]

Scafidi F (2025) The genus *Adenostyles* Cass. (Asteraceae) in Southern Italy and Sicily. Biodiversity Journal 16(3): 415–422. https://doi.org/10.31396/Biodiv.Jour.2025.16.3.415.422

Šegota V, Gligora Udovič M, Levkov Z, Bogdanović S, Rimac A, Alegro A, Šušnjara M, Doboš M, Temunović M, Žutinić P, Budinski I, Conti F, Dorić V, Kulaš A, Bučar M, Cindrić M, Engelen A, Ilić B, Jeričević M, Maslać Mikulec M, Šabanović E, Vuković N, Borovečki-Voska Lj, Ćato S, Ćetković I, Hudina T, Huška D, Jantol N, Jeričević N, Limić I, Loos U, Klarić M, Kovačević M, Rogošić M, Škunca L, Tkalčec Z, Jurina D, Stenger-Kovács C (2025) New findings of rare and under-recorded vascular plants, bryophytes, lichens, fungi and algae in Croatia and neighbouring countries – 2. Journal of the Croatian Botanical Society 13(1): 72–109. https://doi.org/10.46232/glashbod.13.1.5

Selvaggi A, Soldano A, Pascale M, Dellavedova R [Eds] (2006) Note floristiche piemontesi n. 13–47. Rivista Piemontese di Storia Naturale 27: 429–441.

Selvaggi A, Soldano A, Pascale M, Dellavedova R [Eds] (2025) Note floristiche piemontesi n. 1315–1354. Rivista Piemontese di Storia Naturale 46: 27–47.

Selvi F, Martellos S, Conti M (2025) Thirty-five years of floristic collections in southern Tuscany (Italy). Biodiversity Data Journal 13: e160516. https://doi.org/10.3897/BDJ.13.e160516

Sennikov AN, Tikhomirov VN (2024) Atlas Florae Europaeae notes, 35. Further critical notes on *Cytisus* sect. *Tubocytisus* (Fabaceae) in Europe. PhytoKeys 238: 199–230. https://doi.org/10.3897/phytokeys.238.118032

Sochor M, Lepší M, Lepší P, Velebil J, Király G, Trávníček B (2025) Taxonomy and nomenclature of *Rubus* ser. *Glandulosi* (Rosaceae) across its Eurasian range: Revised concepts and new approaches. Taxon 74: 1106–1152. https://doi.org/10.1002/tax.13380

Spadaro V, Marino P, Scuderi L, Venturella G, Raimondo FM (2024) Biodiversity in some populations of *Crataegus* (Rosaceae) from western Sicily: Description of two new species and notes on conservation and valorisation. Flora Mediterranea 34: 239–255. https://doi.org/10.7320/FlMedit34.239

Stampi P (1967) Florula infestante e cicli d'infestazione nelle risaie di Poggio a Caiano. Istituto di Botanica, Agraria e Forestale, Università di Firenze.

Tenore M (1811) Flora napolitana, Vol. 1(2). Nella Stamperia Reale, Napoli [Naples].

Tenore (1823) Flora medica universale e flora particolare della provincia di Napoli. In: Tenore M, Corso delle Botaniche Lezioni, Vol. 4(1). Tipografia del Giornale Enciclopedico, Napoli [Naples].

Tenore M (1824–1829) Flora napolitana, Vol. 3. Nella Stamperia Francese, Napoli [Naples].

Tenore M (1831) Sylloge plantarum vascularium florae neapolitanae hucusque detectarum. Tipografia del Fibreno, Neapoli [Naples].

Tenore M (1835–1838) Flora napolitana, Vol. 5. Dalla Stamperia e Cartiera del Fibreno, Napoli [Naples].

Tenore M, Gussone G (1843) Rapporto intorno alle peregrinazioni de' soci ordinari signor M. Tenore e G. Gussone eseguite in Luglio 1834. Atti della Reale Accademia delle Scienze (Napoli) 5(1): 283–334.

Tison J-M, de Foucault B (2014) Flora Gallica. Flore de France. Biotope Éditons, Mèze.

Trotter A, Romano M (1914) Sulla Flora di M. Crispiniano in Puglia. Nuovo Giornale Botanico Italiano, nuova serie, 21(4): 398–435.

Valdés B, Scholz H (2009) [onwards] Poaceae. Euro+Med Plantbase - the information resource for Euro-Mediterranean plant diversity. https://europlusmed.org/ [Accessed: 10.11.2025].

Viciani D, Ferretti G, Bernardini A, Raffaelli M, Lastrucci L (2020) An annotated checklist of the vascular flora of the Arezzo administrative province (Tuscany, Italy). Plant Biosystems 155(5): 971–982. https://doi.org/10.1080/11263504.2020.1810811

Voisin C, Choler P, Vacher C, Perrier C, Renaud J, Rioux D, Boucher FC (2025) Deciphering the drivers of speciation in Alpine Noccaea (Brassicaceae) reveal an evolution predominantly shaped by geography. Molecular Phylogenetics and Evolution 211: 108381. https://doi.org/10.1016/j.ympev.2025.108381

Wagensommer RP, Marrese M, Perrino EV, Bartolucci F, Cancellieri L, Carruggio F, Conti F, Di Pietro R, Fortini P, Galasso G, Lattanzi E, Lavezzo P, Longo D, Peccenini S, Rosati L, Russo G, Salerno G, Scoppola A, Soldano A, Stinca A, Tilia A, Turco A, Medagli P, Forte L (2014) Contributo alla conoscenza floristica della Puglia: resoconto dell'escursione del Gruppo di Floristica (S.B.I.) nel 2011 nel settore meridionale dei Monti della Daunia. Informatore Botanico Italiano 46(2): 175–208.

Supplementary material 1

Additional information

Authors: Fabrizio Bartolucci, Gabriele Galasso

Data type: pdf

Explanation note: 1. Nomenclatural updates; 2. Distribution updates; 3. Synonyms, misapplied or included names.

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