

## Notulae to the Italian native vascular flora: 7

Fabrizio Bartolucci<sup>1</sup>, Giannantonio Domina<sup>2</sup>, Alessandro Alessandrini<sup>3</sup>,  
Claudia Angiolini<sup>4</sup>, Nicola M.G. Ardenghi<sup>5</sup>, Gianluigi Bacchetta<sup>6</sup>,  
Enrico Banfi<sup>7</sup>, Rossano Bolpagni<sup>8</sup>, Gianmaria Bonari<sup>9</sup>, Christian Bräuchler<sup>10</sup>,  
Giacomo Calvia<sup>6</sup>, Laura Cancellieri<sup>11</sup>, Silvia Cannucci<sup>4</sup>, Francesca Carruggio<sup>12</sup>,  
Fabio Conti<sup>1</sup>, Viviana Cavallaro<sup>12</sup>, Emanuele Fanfarillo<sup>13</sup>, Giulio Ferretti<sup>14</sup>,  
Francesco Festi<sup>15</sup>, Tiberio Fiaschi<sup>3</sup>, Bruno Foggi<sup>14</sup>, Luigi Forte<sup>12</sup>,  
Sigurd E. Fröhner<sup>16</sup>, Gabriele Galasso<sup>7</sup>, Giovanni Gestri<sup>17</sup>, Günter Gottschlich<sup>18</sup>,  
Rocco Labadessa<sup>19</sup>, Lorenzo Lastrucci<sup>20</sup>, Lorenzo Lazzaro<sup>14</sup>, Giuliano Mereu<sup>21</sup>,  
Antonio Morabito<sup>22</sup>, Michele Mugnai<sup>14</sup>, Carmelo M. Musarella<sup>22</sup>,  
Simone Orsenigo<sup>23</sup>, Gaetano Pazienza<sup>12</sup>, Riccardo Pennesi<sup>24</sup>, Lorenzo Peruzzi<sup>25</sup>,  
Brunello Pierini<sup>26</sup>, Lina Podda<sup>27</sup>, Filippo Prosser<sup>15</sup>, Graziano Rossi<sup>5</sup>,  
Anna Scoppola<sup>11</sup>, Giovanni Spampinato<sup>22</sup>, Adriano Stinca<sup>28</sup>, Valeria Tomaselli<sup>29</sup>,  
Giulio Zangari<sup>11</sup>, Chiara Nepi<sup>20</sup>

**1** Centro Ricerche Floristiche dell'Appennino (Università di Camerino - Parco Nazionale del Gran Sasso e Monti della Laga), San Colombo, 67021 Barisciano (L'Aquila), Italy **2** Dipartimento di Scienze Agrarie, Alimentari e Forestali, Università di Palermo, Viale delle Scienze, ed. 4, 90128 Palermo, Italy **3** Istituto Beni Culturali Regione Emilia-Romagna, via Galliera 21, 40121 Bologna, Italy **4** Dipartimento di Scienze della Vita, Università di Siena, Via P.A. Mattioli 4, 53100 Siena, Italy **5** Dipartimento di Scienze della Terra e dell'Ambiente, Università di Pavia, Via Sant'Epifanio 14, 27100 Pavia, Italy **6** Dipartimento di Scienze della Vita e dell'Ambiente, Università degli Studi di Cagliari, viale Sant'Ignazio da Laconi 13, 09123 Cagliari, Italy **7** Sezione di Botanica, Museo di Storia Naturale di Milano, Corso Venezia 55, 20121 Milano, Italy **8** CNR IREA, Sede di Milano, Via Bassini 15, 20133 Milano, Italy **9** Department of Botany and Zoology, Masaryk University, Kotlářská 2, CZ-611 37 Brno, Czech Republic **10** Naturhistorisches Museum Wien, Botanische Abteilung (W), Burgring 7, 1010 Wien, Austria **11** Dipartimento di Scienze Agrarie e Forestali, Università della Tuscia, Via San Camillo de Lellis snc 01100 Viterbo, Italy **12** Dipartimento di Biologia e Museo Orto Botanico – Campus Universitario “E. Quagliariello”, Università degli Studi di Bari “Aldo Moro”, Via Orabona 4, 70125 Bari, Italy **13** Dipartimento di Biologia Ambientale, Sapienza Università di Roma, Piazzale A. Moro 5, 00185 Roma, Italy **14** Dipartimento di Biologia, Università di Firenze, Via G. La Pira 4, 50121 Firenze, Italy **15** Fondazione Museo Civico di Rovereto, Borgo S. Caterina 41, 38068 Rovereto (Trento), Italy **16** Gmünder Strasse 6, 01279 Dresden, Germany **17** Via Bonfiglioli 30, 59100 Prato, Italy **18** Hermann-Kurz Strasse 35, D-72074 Tübingen, Germany **19** Associazione Centro Studi de Romita, Via G. Postiglione 9, 70126 Bari, Italy **20** Museo di Storia Naturale, Università di Firenze, Via G. La Pira 4, 50121 Firenze, Italy **21** Via Alghero 17, 08042 Bari Sardo (Ogliastra), Italy **22** Dipartimento di AGRARIA,

Università “Mediterranea” di Reggio Calabria, Loc. Feo di Vito, 89122 Reggio Calabria, Italy **23** Dipartimento di Scienze Agrarie e Ambientali – Produzione, Territorio, Agroenergia, Università degli Studi di Milano, Via Celoria, 2 20133 Milano **24** Scuola di Bioscienze e Medicina Veterinaria, Università di Camerino, Via Pontoni 5, 62032 Camerino (Macerata), Italy **25** Dipartimento di Biologia, Università di Pisa, Via Derna 1, 56126 Pisa, Italy **26** Via Zamenhof 2, 56127 Pisa, Italy **27** Dipartimento di Agraria, Università degli Studi di Sassari, viale Italia 39, 07100 Sassari, Italy **28** Dipartimento di Scienze e Tecnologie Ambientali, Biologiche e Farmaceutiche, Università della Campania Luigi Vanvitelli, Via Vivaldi 43, 81100 Caserta, Italy **29** C.N.R., Istituto di Bioscienze e Biorisorse, via G. Amendola 165/A, 70126 Bari, Italy

Corresponding author: Fabrizio Bartolucci (fabrizio.bartolucci@gmail.com)

---

Academic editor: S. Biondi | Received 13 May 2019 | Accepted 24 May 2019 | Published 11 June 2019

**Citation:** Bartolucci F, Domina G, Alessandrini A, Angiolini C, Ardenghi NMG, Bacchetta G, Banfi E, Bolpagni R, Bonari G, Bräuchler C, Calvia G, Cancellieri L, Cannucci S, Carruggio F, Conti F, Cavallaro V, Fanfarillo E, Ferretti G, Festi F, Fiaschi T, Foggi B, Forte L, Fröhner SE, Galasso G, Gestri G, Gottschlich G, Labadessa R, Lastrucci L, Lazzaro L, Mereu G, Morabito A, Mugnai M, Musarella CM, Orsenigo S, Paziienza G, Pennesi R, Peruzzi L, Pierini B, Podda L, Prosser F, Rossi G, Scoppola A, Spampinato G, Stinca A, Tomaselli V, Zangari G, Nepi C (2019) Notulae to the Italian native vascular flora: 7. Italian Botanist 7: 125–148. <https://doi.org/10.3897/italianbotanist.7.36148>

---

## Abstract

In this contribution, new data concerning the distribution of native vascular flora in Italy are presented. It includes new records, confirmations and status changes to the Italian administrative regions for taxa in the genera *Acer*, *Alchemilla*, *Andrachne*, *Bromus*, *Clinopodium*, *Colchicum*, *Damasonium*, *Erodium*, *Festuca*, *Hieracium*, *Hyparrhenia*, *Ipomoea*, *Linaria*, *Lolium*, *Narcissus*, *Ranunculus*, *Sisymbrium*, *Stipa*, *Valerianella*, *Vicia*, and *Zannichellia*. New combinations in the genus *Ziziphora* (*Z. sardoa* and *Z. corsica*) and the new subspecies *Ulmus minor* subsp. *canescens* are proposed. Furthermore, the name *Calamintha alpina* var. *sardoa* is here lectotypified. Nomenclatural and distribution updates, published elsewhere, and corrigenda are provided as Suppl. material 1.

## Keywords

Floristic data, Italy, new combination, new subspecies, nomenclature, typification

## How to contribute

The text for the new records should be submitted electronically to Chiara Nepi (chiara.nepi@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 (typifications only for accepted names), status changes, exclusions, and confirmations should be submitted electronically to: Fabrizio Bartolucci (fabrizio.bartolucci@gmail.com). Each text should be within 2,000 characters (spaces included).

## Floristic records

### *Acer pseudoplatanus* L. (Sapindaceae)

+ (NAT) **SAR:** Status change from casual to naturalized for the flora of Sardegna.

This species has a European-Caucasian distribution (Pignatti 2017b). It is native to Italy and is common in all Administrative Regions, with the exception of Sardegna (Bartolucci et al. 2018a), where it has been reported as casual alien. It was introduced in reforestations since the first half of the 20<sup>th</sup> century. This species was first reported in the island by Veri and Bruno (1974) for the Limbara massif (NE Sardegna). They reported it both as native and cultivated. Later, this species has been considered only as a cultivated casual alien. In some mountain areas of central and northern Sardegna, it is widespread and locally colonizes woodlands and reforestation sites. It is common on the Limbara and Gennargentu massifs where it occurs in garrigues, heaths, clearings, rocky places, and reforestations, with trees of different ages, while in the Marghine-Goceano it is mainly represented by saplings and seedlings, which locally invade some sites such as the old yew forest, a Regional Natural Monument, known as Sos Nibberos.

G. Bacchetta, G. Calvia

### *Alchemilla alpigena* Buser ex Hegi (Rosaceae)

+ **TOS:** da M. Lancino verso il Libro Aperto (Pistoia), crinale, 3° poggio (WGS84: 44.154167N, 10.711944E), rupi, 1820 m, 19 July 2016, Leg. G. Gestri, Det. F. Festi (PI No. 008786); Doganaccia-Passo Calanca (Pistoia), incrocio strada-sentiero (WGS84: 44.120000N, 10.774722E), 1670 m, 18 August 2016, Leg. G. Gestri, Det. F. Festi (PI No. 008788). – Species confirmed for the flora of Toscana.

This species was considered as doubtful for the Region (Bartolucci et al. 2018a), despite a recent record published by Buccomino and Tondi (2010) for Monte La Nuda, about 40 km NW of the present records.

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

### *Alchemilla incisa* Buser (Rosaceae)

+ **EMR:** Appennino tosco-emiliano, a N di Fonte Uccelliera (WGS84: 44.101389N, 10.848611E), fra i mirtilli, ca. 1780 m, 20 July 2016, Leg. G. Gestri, Det. F. Festi (PI No. 010386). – Species new for the flora of Emilia-Romagna.

This species was recorded for the same area (but in Tuscan territory) by Arrigoni (2018b).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

***Alchemilla pallens* Buser (Rosaceae)**

+ **EMR:** dallo Scaffaiolo verso il Passo dello Strofinatoio (WGS84: 44.114756N, 10.816248E), 1650 m, 18 June 2016, Leg. *G. Gestri et C. Gavazzi*, Det. *S.E. Fröhner* (PI No. 008804). – Species confirmed for the flora of Emilia-Romagna.

This species was doubtfully recorded for the Region (Bartolucci et al. 2018a).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

***Alchemilla strigosula* Buser (Rosaceae)**

+ **TOS:** Monte Falterona (Firenze), Passo della Calla (WGS84: 43.833611N, 11.733611E), prato, ca. 1290 m, 29 May 2016, Leg. *G. Gestri et C. Gavazzi*, Det. *F. Festi* (PI No. 010472). – Species confirmed for the flora of Toscana.

This species was doubtfully recorded for the Region (Arrigoni 2018b, Bartolucci et al. 2018b), although it is generically reported as very common for the central and southern Apennines by Festi (2017).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

***Alchemilla subcrenata* Buser (Rosaceae)**

+ **TOS:** Alpi Apuane, Minucciano (Lucca), tra Carcaraia e Passo della Focolaccia (WGS84: 44.168333N, 10.204167E), 1200–1600 m, 19 July 2016, Leg. *L. Peruzzi, G. Bedini, J. Muller et G. Trombetti*, Det. *S.E. Fröhner* (PI No. 011182). – Species new for the flora of Toscana.

This species is only generically reported as very common for the central and southern Apennines by Festi (2017).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

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

+ **EMR:** da M. Lancino a Libro Aperto, 2° poggio (WGS84: 44.156667N, 10.730278E), crinale, 19 July 2016, Leg. *G. Gestri*, Det. *F. Festi* (PI No. 008822). – Species new for the flora of Emilia-Romagna.

This species is only generically reported for the “Appennino pistoiese” (Apennines in the area of Pistoia, Toscana) by Festi (2017).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

***Alchemilla venosula* Buser (Rosaceae)**

+ **TOS:** Pratomagno (Arezzo), cima M. Secchietta (WGS84: 43.716944N, 11.589167E), prato, ca. 1440 m, 21 June 2016, Leg. *C. Gavazzi, G. Gestri, B. Pierini*, Det. *S.E. Fröhner* (PI No. 011178); Pratomagno (Arezzo), fra Varco di Reggello e M. Secchietta (WGS84: 43.697778N, 11.607778E), fosso, 1400 m, 21 June 2016, Leg. *C. Gavazzi, G. Gestri, B. Pierini*, Det. *S.E. Fröhner* (PI No. 011177); Pratomagno (Arezzo), lungo la strada di Secchietta (WGS84: 43.732222N, 11.575278E), 1400 m, 22 June 2016, Leg. *B. Pierini et G. Gestri* Det. *S.E. Fröhner* (PI No. 011180); Appenino pistoiese, Cutigliano (Pistoia), NW Passo Calanca (WGS84: 44.123056N, 10.800278E), ca. 1650 m, 16 August 2016, *G. Gestri*, Det. *S.E. Fröhner* (PI No. 011171). – Species new for the flora of Toscana.

This is the second record of this rare species for peninsular Italy, where it was so far known only for Lazio, in the sector of Monti della Laga (Di Pietro et al. 2016; Festi 2017).

G. Gestri, B. Pierini, L. Peruzzi, S.E. Fröhner, F. Festi

***Andrachne telephioides* L. (Phyllanthaceae)**

+ **C TOS:** Grosseto (Grosseto), stazione ferroviaria di Grosseto (WGS84: 42.767200N, 11.106615E), massicciata di un binario morto, 11 m, 28 September 2018, *G. Ferretti, M. Mugnai* (FI). – Cryptogenic species new for the flora of Toscana.

This species shows a wide Mediterranean distribution, but it is considered alien to France (Tison and de Foucault 2014). It has been recorded as native mostly in central and southern Italy and as extinct in Liguria, but until now it has never been reported for Toscana (Bartolucci et al. 2018a). The records for Liguria seemingly derive from individuals collected in natural environments and date back to the end of the 1800s (Tammaro and Pogliani 1977). We retrieved an abundant population at Grosseto railway station, showing mature fruits and clear signs of seed dispersal. Notwithstanding these evidences and its native status in Italy, we opted for a cryptogenic status for Toscana, considering that there are no previous records for this Region and that the context in which the plants have been collected is far from being a natural environment. Indeed, this population may be the result of an accidental introduction along the railways, from natural populations in Lazio. Accordingly, further studies are necessary to assess the native status of this species also in Toscana.

M. Mugnai, L. Lazzaro, G. Ferretti

***Bromus hordeaceus* L. subsp. *thominei* (Hardouin) Braun-Blanq. (Poaceae)**

+ **TOS:** San Rossore (Pisa), pineta di *Pinus pinea* L. su suolo sabbioso (WGS84: 43.720294N, 10.321115E), 0–5 m s.l.m., 5 May 2015, *G. Bonari* (FI); Parco della

Maremma (Grosseto), pineta di *Pinus pinea* L. su suolo sabbioso (WGS84: 42.649897N, 11.060141E), 0–5 m s.l.m., 18 May 2015, *G. Bonari* (FI); Parco della Maremma (Grosseto), pineta di *Pinus pinea* L. su suolo sabbioso (WGS84: 42.651296N, 11.059456E), 0–5 m s.l.m., 20 May 2015, *G. Bonari* (FI). – Subspecies new for the flora of Toscana.

Scholz (2008), unlike Smith (1980) and Tison and de Foucault (2014), reported the base of the awn as flattened and rather stout for this subspecies (similarly to *B. hordeaceus* subsp. *molliformis* (J.Lloyd ex Billot) Maire & Weiller). This deviant information may have created some confusion, leading to an underestimation of the distribution of *B. hordeaceus* subsp. *thominei* in Italy.

E. Banfi, G. Bonari

### *Clinopodium nepeta* (L.) Kuntze subsp. *nepeta* (Lamiaceae)

+ **SAR:** Burcei (Cagliari), Cantoniera Oville Cannas, ambiente ruderale e area circostante (WGS84: 39.332100N, 9.429200E ± 50 m), 208 m, 29 August 2018, *G. Mereu* (FI). – Subspecies confirmed for the flora of Sardegna.

The occurrence of this taxon in Sardegna had been generically indicated by Arigoni (2013), but regarded as doubtful in Bartolucci et al. (2018a).

G. Mereu

### *Colchicum corsicum* Baker (Colchicaceae)

+ **ITALIA (SAR):** Bultei (Sassari), località Sa Fraigada, schiarite boschive in ambiente fresco, esposizione a nord (WGS84: 40.516400N, 9.067900E ± 150 m), 935 m, 3 June 2018 (bulb and leaves); *ibidem*, 30 September 2018 (flowers), *G. Mereu* (FI). – Species confirmed for the flora of Italy (Sardegna).

The previous reports of this species in Sardegna (e.g., Camarda 1990) correspond to *Colchicum verlaqueae* Fridl. (Fridlender 2009), a littoral Sardinian endemic (Maddalena archipelago, Spargi, San Pietro, Pirastru-Vignola). The identification of the samples of *C. corsicum* was based on the descriptions by Baker (1879) and Fridlender (2009, 2014a) and also by comparison with the lectotype at K (K barcode K000464097!). *Colchicum corsicum* is thus added to the rather long list of Sardinian-Corsican endemic species, confirming the ancient link between the two islands.

G. Mereu

### *Colchicum longifolium* Castagne (Colchicaceae)

+ **LOM:** Cecima (Pavia), Cascina Monte, davanti all'“Agriturismo Ca' del Monte” (WGS84: 44.81659N, 9.07412E), 689 m, prateria xerofila, su arenaria, 20 April 2017, Leg. *F. Polani*, Det. *N.M.G. Ardenghi* (*Herb. N. Ardenghi*); *ibidem*, 9 September 2017,

diffuso anche sul lato E del “Planetario e Osservatorio Astronomico Ca’ del Monte” (WGS84: 44.81440N, 9.07933E), Leg. *F. Polani*, Det. *N.M.G. Ardenghi* (FI, *Herb. N. Ardenghi*); *ibidem*, 17 September 2017, Leg. *F. Polani*, Det. *N.M.G. Ardenghi* (*Herb. N. Ardenghi*). – Species new for the flora of Lombardia.

+ **PIE:** Gremiasco (Alessandria), ca. all’altezza di Cascina Monte di Cecima (Pavia) (WGS84: 44.81657N, 9.07320E), 690 m, prateria xerofila, su arenaria, 9 September 2017, diffuso anche sul lato S del “Planetario e Osservatorio Astronomico Ca’ del Monte” di Cecima (WGS84: 44.81440N, 9.07812E), Leg. *F. Polani*, Det. *N.M.G. Ardenghi* (FI). – Species confirmed for the flora of Piemonte.

This species was recently reported from different localities of the Ligurian Alps and the Ligurian Apennines in western Liguria (Persson 2009; Pignatti 2017a), and it is here recorded for the northeastern portion of the latter mountain range in Lombardia and Piemonte. A large population (characterized by tepals with white apex and dark brown tunics, the main morphological features separating *C. longifolium* from *C. neapolitanum* (Ten.) Ten., see Selvi 2009) has been detected along the crest between the Staffora and Curone valleys, growing mainly in dry grasslands and on the fringe of mixed *Quercus pubescens* Willd. subsp. *pubescens* woodlands.

F. Polani, N.M.G. Ardenghi

### *Damasonium bourgaei* Coss.

+ **SAR:** Status change from naturalized to native for the flora of Sardegna.

This taxon is native to Basilicata, Puglia, and Sicilia (Bartolucci et al. 2018a). In Sardegna, Martinoli (1950) reported this species from Capo S. Elia (Cagliari), and recently Rich and Nicholls-Vuille (2001) confirmed its presence for the island, especially in the southern part. Our research in the Herbarium of Cagliari (CAG) demonstrated its presence in 2009 at Cava Monte Pira, Bolotana (Nuoro) (Leg. *F. Mascia*) and at Badde Pirastu in 2014, Teulada (southern Sardegna) (Leg. *G. Bacchetta*, *M. Fois*). Bartolucci et al. (2018a) evaluated the status of this species in Sardegna as naturalized alien, possibly due to a misprint.

G. Bacchetta, G. Calvia, L. Podda

### *Erodium alnifolium* Guss. (Geraniaceae)

+ **LAZ:** Santa Marinella (Roma), Loc. Prato Cipoloso (WGS84: 42.073220N, 11.870662E), 232 m s.l.m., prateria sovrappascolata su suolo argilloso superficiale, su versante esposto ad Est, 19 May 2018, *G. Zangari* (FI); Civitavecchia (Roma), Loc. Fontanile della Vecchia (WGS84: 42.092250N, 11.844583E), 219 m s.l.m., prateria a cotico eterogeneo su suolo argilloso superficiale, su versante esposto ad Ovest, 24 May 2018, *G. Zangari* (UTV No. 37307); Barbarano Romano (Viterbo), Loc. Banditella (WGS84: 42.249242N, 12.059044E), 390 m s.l.m., pascolo al margine di boscaglia,

16 May 2003, *F. Mazzenga* (UTV No. 22242, sub *E. malacoides* (L.) L'Hér.); Università Agraria di Tolfa (Roma), Loc. Trocione (WGS84: 42.060720N, 11.992200E), 277 m s.l.m., pascolo arido, 1 June 1988, *A. Scoppola* (UTV No. 12396, sub *E. malacoides* (L.) L'Hér.). – Species new for the flora of Lazio.

*Erodium alnifolium* is a western Mediterranean species, similar to *E. malacoides* (L.) L'Hér. and *E. chium* (L.) Willd., with which it is often confused (Pignatti 2017b). According to Bartolucci et al. (2018a), this species occurs in Emilia-Romagna, Toscana, Abruzzo, Molise, Puglia, Basilicata, Sicilia, and Sardegna, while it is no longer recorded in Campania and doubtfully occurring in Calabria. All the records, both from the field and from UTV herbarium, were collected within the “Tolfetano-Cerite-Manziate” Natura 2000 SPA. There, *E. alnifolium* was found in intensely grazed grasslands on dry clay soils.

G. Zangari, L. Cancellieri, A. Scoppola

### *Festuca rubra* L. subsp. *juncea* (Hack.) K.Richt. (Poaceae)

+ (NAT) **SAR:** Tempio Pausania (Sassari), Monte Limbara, zona sommitale sotto il tornante del sambuco, gariga, nel ciglio stradale, 1300 m (WGS84: 40.511140N, 09.102044E), 17 July 2010, *G. Calvia* (Herb. Calvia, Berchidda); Tempio Pausania (Sassari), Monte Limbara, zona antenne RAI, scarpate, cigli stradali, 1300 m (WGS84: 40.511160N, 09.102385E), 6 July 2013, *G. Calvia* (Herb. Calvia, Berchidda); Tempio Pausania (Sassari), Vallicciola, graniti. Prati, radure, cigli stradali (WGS84: 40.849839N, 09.152562E) 1050 m, 24 June 2017, *G. Calvia* (FI; Herb. Calvia, Berchidda). – Naturalized regional alien species new for the flora of Sardegna.

This is a European taxon, typical of mountain areas (Pignatti 2017a). It is native to Italy, where it is widespread in many Regions (Bartolucci et al. 2018a). In Sardegna, it was first collected in 2010 close to the communication station of P. Balistreri, on the top of Mt. Limbara (NE Sardegna), in a far from natural environment. Recently, it has been spreading in other areas of the massif, and is now sparsely diffuse between 1,000 and 1,330 m a.s.l., along roads, slopes, garrigues, and meadows, normally growing close to disturbed places.

G. Calvia

### *Hieracium pseudogrovesianum* Gottschl. subsp. *opertum* Gottschl. (Asteraceae)

+ **BAS:** Fardella (Potenza), tra Fosso Carceri e Piano di Iannace (WGS84: 39.943725N, 16.188962E), faggeta, 1591 m, 23 June 2016, Leg. *A. Stinca et R. Pennesi*, Det. *G. Gottschlich* (FI, PORUN-Herb. Stinca, CAME); Terranova di Pollino (Potenza), tra Piano di Iannace e Serra di Crispo (WGS84: 39.936568N, 16.201584E), faggeta, 1773 m, 23 June 2016, Leg. *A. Stinca et R. Pennesi*, Det. *G. Gottschlich* (PORUN-Herb. Stinca, CAME). – Subspecies new for the flora of Basilicata.



*Hieracium pseudogrovesianum* subsp. *opertum* is endemic to Italy and recorded so far only for Abruzzo (Gottschlich 2009). Therefore, our finding represents an important extension of its distribution range in Italy.

A. Stinca, R. Pennesi, G. Gottschlich

### *Hieracium tolstoii* Fen. & Zahn (Asteraceae)

– **TAA.** Species to be excluded from the flora of Trentino-Alto Adige.

*Hieracium tolstoii* was described by Fenaroli and Zahn (1927) on specimens collected on the walls of the Sforza castle in Milan. Its presence in Trentino-Alto Adige was reported by Gottschlich and Pujatti (2000) for the Santa Barbara castle (Lodrone), based on a sample collected by Luzzani in 1931. We revised the only specimen collected by Luzzani and stored at Collegio Arcivescovile in Trento, and we attributed it to *Hieracium sabaudum* L. Accordingly, *Hieracium tolstoii* should be excluded from the flora of Trentino-Alto Adige. These two species look similar, but they can be distinguished by stem leaves bluish-green and involucre bracts with dense stellate hairs in *H. tolstoii* vs. stem leaves dark green and involucre bracts lacking stellate hairs in *H. sabaudum* (Orsenigo et al. 2019).

**EX ITALIA (LOM):** Species extinct in Lombardia and Italy.

*Hieracium tolstoii* is endemic to Italy (Peruzzi et al. 2014, 2015; Orsenigo et al. 2018), where it was reported only for Lombardia and Trentino-Alto Adige (see above). Field research carried out in its *locus classicus* (the walls of the Sforza castle in Milan; Fenaroli and Zahn 1927), allowed us to exclude the current presence of this species in Lombardia and to consider it as extinct at global level.

S. Orsenigo, G. Gottschlich, F. Prosser, G. Galasso

### *Hyparrhenia sinaica* (Delile) Llauradó ex G.López (Poaceae)

+ **UMB:** Arrone (Terni), su calcare (ca. WGS84: 42.584881N, 12.769024E), 250 m s.l.m., Esp. S., 5 June 1989, I. Bonini, G. Fontana (SIENA sub *Bothriochloa ischaemum* (L.) Keng.). – Species new for the flora of Umbria.

E. Banfi, T. Fiaschi, G. Bonari

### *Ipomoea imperati* (Vahl) Griseb. (Convolvulaceae)

+ **CAL:** Gizzeria (Catanzaro), ZSC “LAGHI LA VOTA” (WGS84: 38.94124N, 16.18061E), 1 m s.l.m., dune sabbiose, 29 June 2018, Leg. Morabito, Musarella, Prigoliti, Settineri, Spampinato, Det. Musarella et Spampinato (FI, REGGIO). – Species new for the flora of Calabria.

*Ipomoea imperati* is a thermo-cosmopolite species widespread in temperate and tropical areas of Central and North America, Asia, Pacific Islands, Australia, Canary

Islands, the Azores, and in the Mediterranean (Silvestre 2012, Cennamo et al. 2013). Recent molecular investigations suggest that *I. imperati* is a native species in the Mediterranean (Cennamo et al. 2013). In Italy, it is present only in Sicilia, while in Campania (i.e., the *locus classicus* of this species) is considered Extinct (Turrisi 2001, 2005; Bartolucci et al. 2018a, as *I. stolonifera*, see Suppl. material 1). A few individuals were found among patches of *Convolvulus soldanella* L.

C.M. Musarella, A. Morabito, G. Spampinato

### *Linaria dalmatica* (L.) Mill. (Plantaginaceae)

+ **PUG:** Gravina in Puglia (Bari), Lama Maiorani (WGS84: 40.920284N, 16.332436E), 625 m s.l.m., pascolo roccioso, 23 September 2018, Leg. et Det. G. Paziienza (BI Nos. 42058, 42059, 42060). – Species confirmed for the flora of Puglia.

*Linaria dalmatica* was discovered in Puglia during the 19<sup>th</sup> century (Palanza 1900), exclusively at Gravina (Bari). It was reported by Bartolucci et al. (2018a) as no longer recorded for the Region.

G. Paziienza, F. Carruggio, V. Cavallaro

### *Lolium apenninum* (De Not.) Ardenghi & Foggi (Poaceae)

+ **LOM:** Piazzale della 1a cantoniera dello Stelvio, 1800 m, suolo calcareo, 7 July 1920, Leg. M. Longa, Rev. N.M.G. Ardenghi (PAV sub *Festuca pratensis* Huds.); Prati di Gobetta e piazzale 1<sup>a</sup> Cant.ra Stelvio, 1200–1800, *sine data*, Leg. M. Longa, Rev. N.M.G. Ardenghi (PAV sub *Festuca pratensis* Huds. Massara sub nom. *F. elatior*); Alpe Lago in Valmalenco (Sondrio), 1600 m, rive torbose del lago, 22 August 1984, Leg. A. Piro-la, V. Credaro, Rev. N.M.G. Ardenghi (PAV sub *Festuca pratensis* Hudson); Madesimo (Sondrio), Valcava, presso il càrden del Giardino Alpino Valcava (WGS84: 46.45415N, 9.35437E), 1860 m, margine tra prateria e campetto di patate, 26 July 2018, Leg. G. Rossi, Det. N.M.G. Ardenghi (FI). – Species confirmed for the flora of Lombardia.

Up to now, the presence of *Lolium apenninum* in Lombardia was regarded as doubtful (Bartolucci et al. 2018a), based on a record by Chenevard (1915; see also Martini et al. 2012) from Bergamo. The linked herbarium voucher, stored at BER-Rota (“Selve ombrose e prati = umidi presso Bergamo”, *sine data*, L. Rota sub *Festuca pratensis* Huds.), has recently been verified and it actually pertains to *L. pratense* (Huds.) Darbysh. Yet, historical specimens of genuine *L. apenninum* from Valtellina were discovered in PAV-Lombardo and a population from Valchiavenna was sampled in 2017 and 2018, thus confirming the regional presence of this species, already recorded from nearby Switzerland (Tyler et al. 1978; Kopecký et al. 2016). Further research in this part of the Alps may improve our knowledge of the distribution of *L. apenninum*, traditionally confused, or even merged, with *L. pratense* (Huds.) Darbysh. (Ardenghi and Foggi 2015).

N.M.G. Ardenghi, G. Rossi

***Narcissus tazetta* L. subsp. *aureus* (Loisel.) Baker (Amaryllidaceae)**

+ (CAS) **LAZ:** Ferentino (Frosinone) (WGS84: 41.66242N, 13.25104E), bordo strada, 190 m, 09 March 2018, *E. Fanfarillo* (FI). – Casual regional alien species new for the flora of Lazio.

The presence of this taxon in Lazio was doubtful, while it is considered native to Toscana and Campania, and a casual alien in Marche (Bartolucci et al. 2018a). The present record refers to individuals escaped from cultivation, as this species is frequently cultivated in flowerbeds.

E. Fanfarillo

***Nuphar lutea* (L.) Sm. (Nymphaeaceae)**

+ **SAR:** Status change from casual alien to native for the flora of Sardegna.

*Nuphar lutea* is a Eurasian hydrophyte, which is typical of oligotrophic and still waters. It is common in many regions of northern and central Italy, while it is rare in southern Italy and islands (Pignatti 2017a). According to Conti et al. (2005) and Arrigoni (2006), this species was considered native for Sardegna, but it has been recently reported as casual alien (Bartolucci et al. 2018a), probably due to a misprint.

G. Bacchetta, G. Calvia

***Ranunculus peltatus* Schrank (Ranunculaceae)**

+ **TOS:** Padule di Fucecchio, La Cavallaia (Firenze), loc. Giardino (WGS84: 43.779482N, 10.814862E), 5 May 2018, *L. Lastrucci*, *V. Macchi*, *G. Riccioni* (FI No. FI052890); Fucecchio (Toscana), June 1939, *R. Pichi Sermolli* (FI). – Species confirmed for the flora of Toscana.

This species has been reported as doubtfully present for Toscana (Bartolucci et al. 2018a), although several ancient and recent records for this Region are known both on the basis of the presence of herbarium samples and bibliographic information (Baroni 1897; Lastrucci et al. 2007; Arrigoni 2018a; Peruzzi and Bedini 2018). It should be noted that several records for the Fucecchio Marsh have been reported in the past as *Ranunculus aquatilis* L. (see Tomei and Guazzi 1995; Arrigoni 2018a). In FI, two specimens from the Fucecchio Marsh stored as *R. aquatilis* were found. The first one, collected by U. Martelli in the second half of the 19<sup>th</sup> century, is incomplete and impossible to identify. The second one, collected by R.E.G. Pichi Sermolli in June 1939 and not originally identified by the collector, can be attributed to *R. peltatus* based on the length of the peduncles.

L. Lastrucci

**Ranunculus rionii** Lager (Ranunculaceae)

+ **LOM:** Lombardia, Menaggio (Como), Lago di Como (WGS84: 46.026107N, 9.238882E), August 2018, *R. Bolpagni* (FI No. FI055105). – Species new for the flora of Lombardia.

+ **TOS:** Toscana, prov. di Grosseto, comprensorio di Capalbio. Piccolo stagno adiacente al Lago Acquato (WGS84: 42.485861N, 11.453187E), 20 June 2018, *L. Lastrucci*, *G. Ferretti* (FI No. FI053668). – Species new for the flora of Toscana.

For Italy, this species can be found in Trentino-Alto Adige, considered doubtful for Veneto, and recorded by mistake for Valle d'Aosta (Bartolucci et al. 2018a). Concerning the ancient record from Torri del Benaco (Garda Lake), Pignatti (1982) hypothesized the possible disappearance of this species from the site. In the site from Lombardia, this species is quite rare, recorded along the littorals of Menaggio (Como Province), where it sparsely grows in areas dominated by *Potamogeton perfoliatus* L. and *P. gramineus* L. at depths ranging from 2 to 5 m. In the site from Toscana, this species is rather abundant in the shallow waters of the few open water bodies of the Lake Acquato, a wetland almost completely occupied by marsh vegetation, and near the shore of a small pond close to the lake.

L. Lastrucci, B. Foggi, G. Ferretti, R. Bolpagni

**Sisymbrium polyceratium** L. (Brassicaceae)

+ **PUG:** Bari (Bari), Lungomare San Girolamo (WGS84: 41.137720N, 16.823124E), vegetazione sinantropica nei pressi del mare, 1 m, 26 April 2018, *R. Labadessa* (BI Nos. 40486, 42063). – Species confirmed for the flora of Puglia.

*Sisymbrium polyceratium* is distributed in southern Europe and it is known for the majority of Italian Regions, with the exception of the northernmost ones, while it has no longer been recorded in Liguria, Emilia-Romagna, Calabria, and Puglia (Bartolucci et al. 2018a). In particular, this species has not been found in Puglia since the second half of the 19<sup>th</sup> century, when it was indicated for the area of Barletta (Bruni 1857).

R. Labadessa, L. Forte

**Stipa capillata** L. (Poaceae)

+ **BAS:** Matera (Matera), Murgia Timone (WGS84 40.673616N, 16.629670E), 420 m s.l.m., prateria xerica submediterranea a *Stipa austroitalica*, 13 October 2018, *L. Forte* (FI). – Species new for the flora of Basilicata.

*Stipa capillata* is one of the most widely distributed species of the genus, being present from Spain to eastern Siberia (Freitag 1985), with a central range extending from eastern Romania to eastern Kazakhstan (Wagner et al. 2011). In Italy, this species is reported from Piemonte to Trentino-Alto Adige in the north, and in Umbria, Lazio, Abruzzo, Molise, and Puglia in the centre and south (Bartolucci et al. 2018a).

L. Forte, R. Labadessa, V. Tomaselli

*Valerianella discoidea* (L.) Loisel. (Valerianaceae)

+ **TOS:** Galenda, Gaiole in Chianti (Siena), su un muretto a secco a bordo di un bosco di roverella (WGS84: 43.450239N, 11.37004E), 505 m s.l.m., 29 May 2018 C. Angiolini (FI). – Species confirmed for the flora of Toscana.

C. Angiolini, S. Cannucci

*Vicia johannis* Tamamsch. (Fabaceae)

+ **ABR:** Lama dei Peligni (Chieti), vicino all’Orto Botanico, pascoli aridi, 600 m, 18 May 1996, A. Manzi (APP no. 12659); Barisciano (L’Aquila), San Colombo, pascolo, 1088 m, 26 April 2002, F. Conti (APP no. 27783); Capestrano (L’Aquila), Fiume Tirino, incolti, 21 April 1998, A. Manzi (APP no. 28078); Carapelle Calvisio (L’Aquila), pascoli, 870 m, 15 May 2004, A. Manzi (APP no. 32209); Barisciano (L’Aquila), San Colombo, margine boschivo, 2011, F. Conti (APP no. 56097); Acciano (L’Aquila), M. Offermo, incolti aridi, 30 May 2018, F. Conti, F. Bartolucci (APP no. 59830). – Species new for the flora of Abruzzo.

+ **LAZ:** Campoli Appennino (Frosinone), ex coltivi, esp. S, 850 m, 25 May 1997, F. Minutillo (APP No. 39929). – Species confirmed for the flora of Lazio.

+ **MOL:** Scapoli (Iserna), M. Falconara, versante settentrionale, siepi, 600 m, 25 April 1998, F. Conti, F. Minutillo (APP no. 33753). – Species new for the flora of Molise.

This species was so far known in Italy only for Veneto and Emilia-Romagna (Bartolucci et al. 2018a), and generically reported from Lazio and Sardegna (Schäfer 1973; Bennett and Maxted 1997). *Vicia johannis* was confused in central Italy with *V. narbonensis* L., from which it is easily distinguished for the background colour of the standard (cream to yellow vs. violet to deep purple), for the wings showing violet or brown veins and wing spots (vs.  $\pm$  concolorous corollas, lacking distinct spots on wings), and for the upper leaves showing leaflets usually 2-paired (vs. usually 3-paired) (Birch et al. 1985; Schäfer 1973; Tison and de Focault 2014).

F. Bartolucci, F. Conti

*Zannichellia pedunculata* Rchb. (Potamogetonaceae)

0 **PUG:** In Apulia, s.d., G. Gasparrini, Rev. S. Pignatti, 1953 as *Z. palustris* L. subsp. *pedicellata* (Wahl. et Rosen) Hegi (PAV-Gasparrini, under the name *Ruppia maritima* Zannichella [sic] *palustris*). – Species not recently confirmed for the flora of Puglia.

*Zannichellia pedunculata* is a subcosmopolitan species, reported for most of the Italian territory, with the exception of north-western and south-eastern Regions (Bartolucci et al. 2018a). A single herbarium specimen from “Apulia” was found in PAV-Gasparrini, collected by Guglielmo Gasparrini (1804–1866) probably around 1830, before becoming professor of botany in Pavia in 1857, where he transferred most of his

collections (Alippi Cappelletti 1999). The specimen was later revised as *Z. palustris* L. subsp. *pedicellata* (Wahlenb. & Rosén) Arcang. by Sandro Pignatti, who indexed the Gasparrini herbarium in Pavia in the early 1950s.

N.M.G. Ardenghi, G. Rossi

### *Zannichellia peltata* Bertol. (Potamogetonaceae)

+ **EMR:** Bologna, periferia nord-ovest, Lungo il Canale Ghisiliera; 50 m, noexp (WGS84: 44.5068N, 11.3193E), 31 August 2018, Leg. et Det. A. Alessandrini, Confirm. L. Lastrucci (FI). – Species new for the flora of Emilia-Romagna.

This species is known (Bartolucci et al. 2018a) for southern Italy (ascertained in Basilicata and Sicilia, to be confirmed in Lazio and Calabria). In the collection site, *Z. peltata* grows abundantly along the running shallow waters of a canal about 2-m wide. The collected specimens were identified mainly using the key published by Talavera and Garcia-Murillo (2010). We paid particular attention to the length of stamen filaments in the male flower and to the separation of female and male flowers in different nodes along the stem. A broad revision of herbarium materials belonging to *Z. palustris* s.l. is advisable, in order to check the possible presence of further samples of *Z. peltata* in other Italian localities.

A. Alessandrini, L. Lastrucci

### Nomenclatural novelties

*Ulmus minor* L. subsp. *canescens* Bartolucci & Galasso, subsp. nov.

urn:lsid:ipni.org:names:60478977-2

–*Ulmus canescens* Melville, Kew Bull. 12(3): 499(–502, figs. 1–2). 1958 (1957 publ. 17 January 1958), *nom. inval.*

–*Ulmus minor* Mill. subsp. *canescens* Browicz & Ziel., Fragm. Florist. Geobot. 23(2): 145. 1977. [end of August 1977], *nom. inval.*

–*Ulmus minor* Mill. subsp. *canescens* Browicz & Ziel., Arbor. Kórnickie 22: 320. 1978. [1977 publ. January 1978], *nom. inval.*

Holotype: [Greece]. Thrace, Karakeuy, 17 May 1932, *H.G.Tedd 806* (K barcode K000852646!).

Description: Melville in Kew Bull. 12(3): 499. 1958.

The name “*Ulmus canescens*” was not validly published by Melville (1958), because three gatherings, from the same place but on different dates, were cited as “holotype” (Arts. 8 and 40 of the ICN, Turland et al. 2018). Currently, *Ulmus canescens* is treated at subspecific rank (e.g., Browicz and Zieliński 1982; Christensen 1997; Uotila 2011; Dimopoulos et al. 2013; Barina et al. 2018; Bartolucci et al. 2018a) under the invalid combination “*U. minor* subsp. *canescens* (Melville) Browicz & Ziel.”. We propose

a new subspecies based on Melville's description and designating a single specimen, within the original material "*H.G. Tedd 806*" cited by Melville (traced at K, barcodes K000852646!, K001328097!, K001328098!, K001328099!, K001328100!), as the holotype (see also Art 46.4 of the ICN).

F. Bartolucci, G. Galasso

*Ziziphora sardoa* (Asch. & Levier) Bartolucci, Galasso & Bräuchler, comb. nov.

urn:lsid:ipni.org:names:60478978-2

≡ *Calamintha alpina* (L.) Lam. var. *sardoa* Asch. & Levier, Fl. Sard. Comp.: 234. 1884–1885 ≡ *Acinos sardous* (Asch. & Levier) Arrigoni, Boll. Soc. Sarda Sci. Nat. 22: 288. 1983 [31 October 1983] ≡ *Satureja sardoa* (Asch. & Levier) Greuter & Burdet, Med-Checkl. 3: 325 1986. [1 September 1986] ≡ *Clinopodium alpinum* (L.) Kuntze subsp. *sardoum* (Asch. & Levier) Govaerts, World Checkl. Seed Pl. 3(1): 16. 1999 ≡ *Clinopodium sardoum* (Asch. & Levier) Peruzzi & F.Conti, Inform. Bot. Ital. 40(2): 264. 2008 [31 December 2008]

Lectotype (designated here): [ITALY]. Sardegna: S'Ata e Bidda, 16 May 1884, *Forsyth Major 52* (FI barcode FI055680!).

*Acinos* Mill. and *Ziziphora* L. form a group separate from *Clinopodium* s.str. in the phylogenetic trees reconstructed from plastid and nuclear ribosomal markers (Bräuchler et al. 2010). A close morphological relationship between the two genera (López and Bayer 1988) and lack of a clear separation in their phylogeny suggests that the two genera should be merged. As a consequence, we here include *Acinos* in *Ziziphora*, while they were regarded as part of *Clinopodium* L. by Bartolucci et al. (2018a). The taxa belonging to the genus *Ziziphora* occurring in Italy (Bartolucci et al. 2018a; Galasso et al. 2018) are: *Z. acinos* (L.) Melnikov subsp. *acinos* [≡ *Clinopodium acinos* (L.) Kuntze subsp. *acinos*], *Z. granatensis* (Boiss. & Reut.) Melnikov subsp. *granatensis* [= *Clinopodium alpinum* (L.) Kuntze subsp. *meridionale* (Nyman) Govaerts], *Z. granatensis* subsp. *alpina* (L.) Bräuchler & Gutermann [≡ *C. alpinum* (L.) Kuntze subsp. *alpinum*], *Z. graveolens* (M. Bieb.) Melnikov [≡ *C. graveolens* (M. Bieb.) Kuntze], *Z. suaveolens* (Sm.) Melnikov [≡ *Clinopodium suaveolens* (Sm.) Kuntze], *Ziziphora villosa* (Pers.) Melnikov [*Clinopodium acinos* (L.) Kuntze subsp. *villosum* (Pers.) Peruzzi & F.Conti] and the alien taxon *Z. capitata* L. subsp. *capitata*. *Clinopodium alpinum* (L.) Kuntze subsp. *nebrodense* (A.Kern. & Strobl) Bartolucci & F.Conti [≡ *Calamintha nebrodensis* A.Kern. & Strobl] and *C. minae* (Lojac.) Peruzzi & F.Conti [≡ *Calamintha minae* Lojac.] are taxa of doubtful taxonomic value, and they are regarded here as synonyms of *Z. granatensis* (Boiss. & Reut.) Melnikov subsp. *granatensis*, pending further studies. A new combination for the Corsican endemic *Clinopodium corsicum* (Pers.) Govaerts under *Ziziphora* is proposed: *Ziziphora corsica* (Pers.) Bräuchler, comb. nov. (urn:lsid:ipni.org:names:XXXXXXXXX-X) (≡ *Thymus corsicus* Pers., Syn. Pl. [Persoon] 2(1): 131. 1806 [November 1806])

F. Bartolucci, G. Galasso, C. Bräuchler

## Nomenclatural and distribution updates from other literature sources, and corrigenda

Nomenclatural and distribution updates according to Caruel (1860), Zahn (1916), Zangheri (1966), Caputo (1967), La Valva and Sabato (1983), Moraldo et al. (1988), López González (1992, 1994), Vergari et al. (1996), Rich and Nicholls-Vuille (2001), Arrigoni (2003, 2016, 2017, 2018a, 2019), Viciani et al. (2008, 2013), Anzalone et al. (2010), Carine and Robba (2010), Lastrucci et al. (2007, 2010, 2016, 2017), Selvi (2010), Aghababayan (2011), Kurtto et al. (2013), Talavera et al. (2013), Fridlender (2014b), Tison and de Foucault (2014), Iamonico and Managlia (2015), Ali et al. (2016a, 2016b), Arrigoni et al. (2016), Hauenschild et al. (2016), Roccia et al. (2016), Pignatti (2017b), Uhlemann (2017), Bamonte (2018), Bellone et al. (2018), Bergfeld (2018), Bottinelli et al. (2018), Bovio (2018), Bräuchler (2018), De Santis (2018a, 2018b), Ellmouni et al. (2018), Lazzeri et al. (2018), Oberprieler et al. (2018), Ottonello and Longo (2018), Perrino et al. (2018), Peruzzi et al. (2018), Polidori et al. (2018), Rosati et al. (2018), Secchi and Longo (2018), Troia et al. (2018), Bartolucci et al. (2019), Benedí (2019), Bonali (2019), Conti et al. (2019), Cresti et al. (2019), Govaerts (2019), Groom et al. (2019), Gutermann (2019), Gutiérrez-Larruscain et al. (2019), Maggioni and Alessandrini (2019), Ramírez et al. (2019), Thiv et al. (2019), Wahlsteen and Tyler (2019) and corrigenda to Bartolucci et al. (2018a) are provided in Suppl. material 1.

F. Bartolucci, G. Galasso

## Acknowledgements

We gratefully acknowledge colleagues who provided distribution, nomenclatural, and taxonomic suggestions: Liliana Bernardo, Giampiero Ciaschetti, Emanuele Del Guacchio, Alain Fridlender, Lorenzo Gallo, Dario Macaluso, Daniela Longo, Domenico Puntillo, Francesco Roma-Marzio, Annalisa Santangelo, Ingo Uhlemann, Robert P. Wagensommer. Many thanks are due to Stefano Armiraglio (Museo di Scienze Naturali, Brescia), who provided a scan of Chenevard (1915), Francesco Zonca (Orto Botanico di Bergamo “Lorenzo Rota”), who sent digital images of the specimens in BER-Rota, and to the curators of the herbaria FI and K.

## References

- Aghababayan MV (2011) A revision of *Papaver* sect. *Argemonidium* Spach (Papaveraceae). *Takhtajania* 1: 38–42.
- Ali T, Runge F, Dutbayev A, Schmuker A, Solovyeva I, Nigrelli L, Buch A-K, Xia X, Ploch S, Orren O, Kummer V, Paule J, Çelik A, Vakhrusheva L, Gabrielyan I, Thines M (2016a) *Microthlaspi erraticum* (Jord.) T. Ali et Thines has a wide distribution, ranging from the Alps to the Tien Shan. *Flora* 225: 76–81. <https://doi.org/10.1016/j.flora.2016.09.008>



- Ali T, Schmuker A, Runge F, Solovyeva I, Nigrelli LJP, Buch A, Xia X, Ploch S, Orren O, Kummer V, Linde-Laursen I, Ørgaard M, Hauser TP, elik A, Thines M (2016b) Morphology, phylogeny, and taxonomy of *Microthlaspi* (Brassicaceae, Coluteocarpeae) and related genera. *Taxon* 65(1): 79–98. <https://doi.org/10.12705/651.6>
- Alippi Cappelletti M (1999) Gasparrini, Guglielmo. *Dizionario Biografico degli Italiani*. Treccani. [http://www.treccani.it/enciclopedia/guglielmo-gasparrini\\_\(Dizionario-Biografico\)/](http://www.treccani.it/enciclopedia/guglielmo-gasparrini_(Dizionario-Biografico)/) [accessed: 8 March 2019]
- Anzalone B, Iberite M, Lattanzi L (2010) *Flora vascolare del Lazio*. *Informatore Botanico Italiano* 42(1): 187–317.
- Ardenghi NMG, Foggi B (2015) Lectotypification and combination of *Festuca apennina* (Poaceae). *Taxon* 64(5): 1038–1041. <https://doi.org/10.12705/645.14>
- Arrigoni PV (2003) La flora vascolare del Parco della Maremma (Toscana, Italia centrale). *Webbia* 58(1): 151–240. <https://doi.org/10.1080/00837792.2003.10670750>
- Arrigoni PV (2006) *Flora dell'Isola di Sardegna*, Vol. 1. Carlo Delfino Editore, Sassari, 448 pp.
- Arrigoni PV (2013) *Flora dell'Isola di Sardegna*, Vol. 4. Carlo Delfino Editore, Sassari, 584 pp.
- Arrigoni PV (2016) *Flora analitica della Toscana*, Vol. 1. Edizioni Polistampa, Firenze, 403 pp.
- Arrigoni PV (2017) *Flora analitica della Toscana*, Vol. 2. Edizioni Polistampa, Firenze, 335 pp.
- Arrigoni PV (2018a) *Flora analitica della Toscana*, Vol. 3. Edizioni Polistampa, Firenze, 533 pp.
- Arrigoni PV (2018b) *Flora analitica della Toscana*, Vol. 4. Edizioni Polistampa, Firenze, 510 pp.
- Arrigoni PV (2019) *Flora analitica della Toscana*, Vol. 5. Edizioni Polistampa, Firenze, 544 pp.
- Arrigoni PV, Ferretti G, Nepi C (2016) Flora del Prato Fiorito (Bagni di Lucca, Toscana). *Annali dei Musei Civici-Rovereto. Sezione Archeologia, Storia, Scienze Naturali* 31 (2015): 169–245.
- Baker JG (1879) A synopsis of Colchicaceae and the aberrant tribes of Liliaceae. *Journal of the Linnean Society. Botany* 17: 405–510. <https://doi.org/10.1111/j.1095-8339.1879.tb01238.x>
- Bamonte R (2018) Noterelle: 204. *Acta Plantarum Notes* 6: 150.
- Barina Z, Somogyi G, Pifkó D, Rakaj M (2018) Checklist of vascular plants of Albania. *Phytotaxa* 378(1): 1–339. <https://doi.org/10.11646/phytotaxa.378.1.1>
- Baroni E (1897) *Supplemento generale al Prodromo della Flora Toscana di T. Caruel*. Fasc. I. Società Botanica Italiana, Firenze.
- Bartolucci F, Cancellieri L, Conti F, Banfi E, Bouvet D, Celestini M, Ciaschetti G, Di Pietro R, Falcinelli F, Fascetti S, Galasso G, Lattanzi E, Masin RR, Pennesi R, Rosati L, Stinca A, Tilia A, Forte TGW, Scoppola A (2019) Contribution to the floristic knowledge of Velino and Aterno valleys (Lazio-Abruzzo, central Italy). *Italian Botanist* 7: 93–100. <https://doi.org/10.3897/italianbotanist.7.34697>
- Bartolucci F, Domina G, Ardenghi NMG, Bacchetta G, Bernardo L, Buccomino G, Buono S, Caldararo F, Calvia G, Carruggio F, Cavagna A, D'Amico FS, Di Carlo F, Festi F, Forte L, Galasso G, Gargano D, Gottschlich G, Lazzaro L, Magrini S, Maiorca G, Medagli P, Mei G, Mennini F, Mereu G, Misericocchi D, Olivieri N, Passalacqua NG, Paziienza G, Peruzzi L, Prosser F, Rempicci M, Roma-Marzio F, Ruggero A, Sani A, Saulle D, Stefanini C, Stinca A, Terzi M, Tondi G, Trenchi M, Viciani D, Wagensommer RP, Nepi C (2018b) Notulae to the Italian native vascular flora: 6. *Italian Botanist* 6: 45–64. <https://doi.org/10.3897/italianbotanist.6.30575>

- 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, Iamónico 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, Wilhelm T, Conti F (2018a) An updated checklist of the vascular flora native to Italy. *Plant Biosystems* 152(2): 179–303. <https://doi.org/10.1080/11263504.2017.1419996>
- Bellone G, Longo D, Tison J-M (2018) *Noterelle*: 230–234, 236. *Acta Plantarum Notes* 6: 176–182.
- Benedí C (2019) *Artemisia* L. In: Benedí C, Buirra A, Rico E, Crespo MB, Quintanar A, Aedo C (Eds) *Flora Iberica*, Vol. XVI(III). Real Jardín Botánico, CSIC, Madrid, 1717–1752.
- Bennett SJ, Maxted N (1997) An ecogeographic analysis of the *Vicia narbonensis* complex. *Genetic Resources and Crop Evolution* 44(5): 411–428.
- Bergfeld D (2018) Ergänzungen zur Orchideenflora der italienischen Regionen Abruzzen und Molise. *Journal Europäischer Orchideen* 50(2–4): 273–298.
- Birch ANE, Titehcott MT, Bisby FA (1985) *Vicia johannis* and wild relatives of the faba bean: a taxonomic study. *Economic Botany* 39(2): 177–190. <https://doi.org/10.1007/bf02907843>
- Bonali F (2019) Segnalazioni floristiche per la provincia di Cremona: 89–94. In: Bonali F (Ed.) *Segnalazioni floristiche per la provincia di Cremona*: 86–165. *Pianura* 38: 5–8.
- Bottinelli R, Longo D, Banfi E (2018) *Noterelle*: 229. *Acta Plantarum Notes* 6: 175.
- Bovio M (2018) Note di aggiornamento al volume *Flora vascolare della Valle d'Aosta* 5. *Revue Valdotaïne d'Histoire Naturelle* 72: 97–121.
- Bräuchler C (2018) And now for something completely different – new names in *Clinopodium* with comments on some types. *Phytotaxa* 356(1): 71–80. <https://doi.org/10.11646/phytotaxa.356.1.6>
- Bräuchler C, Meimberg H, Heubl G (2010) Molecular phylogeny of Menthinae (Lamiaceae, Nepetoideae, Mentheae) – taxonomy, biogeography and conflicts. *Molecular Phylogenetics and Evolution* 55(2): 501–523. <https://doi.org/10.1016/j.ympev.2010.01.016>
- Browicz K, Zieliński J (1982) *Ulmus* L. In: Davis PH (Ed.) *Flora of Turkey and East Aegean Islands*, Vol. 7. Edinburgh University Press, Edinburgh, 645–648.
- Bruni A (1857) *Descrizione botanica delle campagne di Barletta*. Stamp. del Fibreno, Napoli, 212 pp. <https://doi.org/10.5962/bhl.title.9655>
- Buccomino G, Tondi G (2010) *Notulae alla checklist della Flora vascolare Italiana*, 9: 1647. *Informatore Botanico Italiano* 42(1): 376.
- Camarda I (1990) Le piante endemiche della Sardegna: 198 *Colchicum corsicum* Baker (1879). *Bolletino della Società Sarda di Scienze Naturali* 27 : 283–287.
- Caputo G (1967) *Flora e vegetazione delle isole di Procida e Vivara (Golfo di Napoli)*. *Del-pinoa*, n.s., 6–7 (1964–1965): 191–27.
- Carine MA, Robba L (2010) Taxonomy and evolution of the *Convolvulus sabatius* complex (Convolvulaceae). *Phytotaxa* 14: 1–21. <https://doi.org/10.11646/phytotaxa.14.1.1>

- Caruel T (1860–1864) *Prodromo della Flora Toscana*. Firenze.
- Cennamo P, Del Guacchio E, Paino L, De Castro O, Menale B, Vasquez-Torres M, Caputo P (2013) Genetic structure of *Ipomoea imperati* (Convolvulaceae) in the Mediterranean region and implications for its conservation. *Phytotaxa* 141(1): 40–54. <https://doi.org/10.11646/phytotaxa.141.1.3>
- Chenevard P (1915) [Flora delle Prealpi bergamasche]. Unpublished manuscript stored at the library of the Conservatoire et Jardin botanique de la Ville de Genève.
- Christensen KI (1997) *Ulmus L.* In: *Strid A*, Tan K (Eds) *Flora Hellenica*, Vol. 1. Koeltz Scientific Books, Königstein, 50–52.
- Conti F, Bracchetti L, Uzunov D, Bartolucci F (2019) A new subspecies of *Corydalis densiflora* (Papaveraceae) from the Apennines (Italy). *Willdenowia* 49(1): 53–64. <https://doi.org/10.3372/wi.49.49107>
- 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>
- De Santis E (2018a) Contributo alla conoscenza della Flora vascolare dei Monti della Tolfa (Lazio): La flora lungo il fiume Mignone nei pressi di Rota (Tolfa, RM). *Acta Plantarum Notes* 6: 58–72.
- De Santis E (2018b) *Noterelle*: 210. *Acta Plantarum Notes* 6: 156.
- Dimopoulos P, Raus Th, Bergmeier E, Constantinidis Th, Iatrou G, Kokkini S, Strid A, Tzanoudakis D (2013) *Vascular plants of Greece: an annotated checklist*. Berlin; Athens: Botanic Garden and Botanical Museum Berlin-Dahlem; Hellenic Botanical Society.
- Di Pietro R, Fröhner SE, Gottschlich G, Minutillo F, Fortini P, Tondi G (2016) New floristic records for the apennines with some biogeographical and phytosociological considerations. *Atti Società Toscana di Scienze naturali, Memorie, serie B* 122 (2015): 43–60. <https://doi.org/10.2424/ASTSN.M.2015.06>
- Ellmouni FY, Karam MA, Alii RM, Albach DC (2018) Systematic treatment of *Veronica L.* Section *Beccabunga* (Hill) Dumort (Plantaginaceae). *Taekholmia* 38(1): 168–183. <https://doi.org/10.21608/TAEC.2018.5481.1000>
- Fenaroli L, Zahn KH (1927) *Hieracia nova Italiae borealis* (avec remarques sur *H. australe* Fr.). *Botanische Jahrbücher für Systematik* 61 (2–3, Beibl. 138): 22–30.
- Festi F (2017) *Alchemilla L.* In: Pignatti S (Ed.) *Flora d'Italia* 2, ed. 2. Edagricole-New Business Media, Milano, 768–799.
- Freitag H (1985) The genus *Stipa* (Gramineae) in Southwest and South Asia. *Notes Roy. Bot. Gard. Edinburgh* 42(3): 355–489.
- Fridlender A (2009) *Colchicum verlaqueae* Fridlender: un colchique nouveau endémique du littoral sarde. *Bulletin Mensuel de la Société Linnéenne de Lyon* 78(5–6): 111–117. <https://doi.org/10.3406/linly.2009.13719>
- Fridlender A (2014a) Les colchiques de la flore française. *Digitalis* 10: 5–17.
- Fridlender A (2014b) Combinaisons nouvelles concernant 3 colchiques du sud-ouest méditerranéen. *Bulletin Mensuel de la Société Linnéenne de Lyon* 83(5–6): 137–141. <https://doi.org/10.3406/linly.2014.13910> [In French]

- Gottschlich G (2009) Die Gattung Hieracium L. (Compositae) in der Region Abruzzen (Italien). *Stapfia* 89: 1–328.
- Gottschlich G, Pujatti D (2000) Il genere Hieracium (Compositae) in provincia di Trento (nord Italia): chiave di determinazione, descrizione morfologica e distribuzione locale delle specie. *Annali dei Musei Civici-Rovereto. Sezione Archeologia, Storia, Scienze Naturali* 16: 273–351.
- Govaerts R (2019) World Checklist of Lamiaceae. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet; <http://wmsp.science.kew.org> [accessed: 30 April 2019]
- Groom QJ, Van Der Straeten J, Hoste I (2019) The origin of *Oxalis corniculata* L. PeerJ 7: e6384. <https://doi.org/10.7717/peerj.6384>
- Gutermann W (2019) Notulae nomenclaturales 46–59. *Neilreichia* 10:135–154. <https://doi.org/10.5281/zenodo.2630535>
- Gutiérrez-Larruscain D, Santos-Vicente M, Montserrat Martínez-Ortega M, Rico E (2019) Typification of 25 names in *Inula* (Inuleae, Asteraceae), and a new combination in *Pentanema*. *Phytotaxa* 395(1): 17–026. <https://doi.org/10.11646/phytotaxa.395.1.2>
- Hauenschild F, Favre A, Salazar GA, Muellner-Riehl AN (2016) Corrigendum to Hauenschild F et al., Analysis of the cosmopolitan buckthorn genera *Frangula* and *Rhamnus* s.l. supports the description of a new genus, *Ventia*. *Taxon* 65(4): 926–927. <https://doi.org/10.12705/654.49>
- Iamónico D, Managlia A (2015) Lectotypification of the Bertoloni's names in the genus *Senecio* L. (Asteraceae). *Plant Biosystems* 149(1): 48–53. <https://doi.org/10.1080/11263504.2013.809816>
- Kopecký D, Harper J, Bartoš J, Gasior D, Vrána J, Hřibová E, Boller B, Ardenghi NMG, Šimoníková D, Doležel J, Humphreys MW (2016) An Increasing Need for Productive and Stress Resilient *Festulolium* Amphiploids: What Can Be Learnt from the Stable Genomic Composition of *Festuca pratensis* subsp. *apennina* (De Not.) Hegi? *Frontiers in Environmental Science* 4: 66. <https://doi.org/10.3389/fenvs.2016.00066>
- Kurto A, Sennikov AN, Lampinen R (2013) Atlas Florae Europaeae. Distribution of vascular plants in Europe, Vol. 16. Helsinki, The Committee for Mapping the Flora of Europea & Societas Biologica Fennica Vanamo, 168 pp.
- La Valva V, Sabato S (1983) Nomenclature and Typification of *Ipomoea imperati* (Convolvulaceae). *Taxon* 32(1): 110–114. <https://doi.org/10.2307/1219862>
- Lastrucci L, Foggi B, Selvi F, Becattini R (2007) Contributo alla conoscenza della vegetazione e della flora delle aree umide nel comprensorio di Capalbio (provincia di Grosseto, Italia centrale). *Archivio Geobotanico* 10(1–2) (2004): 1–30.
- Lastrucci L, Frignani F, Kaplan Z (2010) *Potamogeton schweinfurthii* and similar broad-leaved species in Italy. *Webbia* 65(1): 147–160. <https://doi.org/10.1080/00837792.2010.10670870>
- Lastrucci L, Dell'Olmo L, Foggi B, Massi L, Nuccio C, Vicenti C, Viciani D (2017) Contribution to the knowledge of the vegetation of the Lake Massaciuccoli (northern Tuscany, Italy). *Plant Sociology* 54(1): 67–87.
- Lastrucci L, Valentini E, Dell'Olmo L, Vietina B, Foggi B (2016) Hygrophilous vegetation and habitats of conservation interest in the area of the Lake Porta (Tuscany, Central Italy). *Atti della Società Toscana di Scienze Naturali, Memorie, Serie B*, 122 (2015): 131–146.

- Lazzeri V, Gestri G, Borzatti von Löwenstern A, Mannocci M, Barsotti G, Campus G, Caramante P (2018) Note floristiche toscano-sarde IV: novità regionali e locali per le regioni Toscana e Sardegna. *Annali del Museo Civico di Rovereto, sezione Archeologia, Storia e Scienze Naturali* 33 (2017): 79–110.
- López González G (1992) Apuntes para justificar el tratamiento del género “*Helianthemum*” Miller, s.l. (“Cistaceae”), en “Flora Ibérica” *Anales del Jardín Botánico de Madrid* 50(1): 35–63.
- López González G (1994) ¿*Rorippa pyrenaica* (All.) Rchb. o *R. stylosa* (Pers.) Mansf. & Rothm.? (Cruciferae). *Anales del Jardín Botánico de Madrid* 52(1): 98–102.
- López González G, Bayer E (1988) El género *Ziziphora* L. (Labiatae) en el Mediterraneo occidental y sus relaciones con *Acinos* Miller ¿parentesco o convergencia? *Lagascalia* 15(Extra): 49–64.
- Maggioni L, Alessandrini A (2019) The occurrence of *Brassica montana* Pourr. (Brassicaceae) in the Italian regions of Emilia-Romagna and Marche, and in the Republic of San Marino. *Italian Botanist* 7: 1–16. <https://doi.org/10.3897/italianbotanist.7.31727>
- Martini F, Bona E, Federici G, Fenaroli F, Perico G (2012) Flora vascolare della Lombardia centro-orientale, 1: Parte generale. LINT, Trieste.
- Martinoli G (1950) La flora e la vegetazione del Capo S. Elia (Sardegna meridionale). *Pubblicazioni Centro per lo Studio della Flora e della Vegetazione Italiana* 17: 57–148. <https://doi.org/10.1080/11263505009430782>
- Melville R (1958) *Ulmus canescens*: An Eastern Mediterranean Elm. *Kew Bulletin* 12(3): 499–502. <http://www.jstor.org/stable/4113729>
- Moraldo B, La Valva V, Ricciardi M, Caputo G (1988) La Flora dei Monti Picentini (Campania). Pars altera: Pyrolaceae - Orchidaceae. *Delpinoa*, n.s., 27–28 (1985–1986): 59–148.
- Moris JJ (1827) *Stirpium sardoarum elenchus. Ex Typiis Regiis, Carali.*
- Oberprieler C, Konowalik K, Fackelmann A, Vogt R (2018) Polyploid speciation across a suture zone: phylogeography and species delimitation in S French *Leucanthemum* Mill. representatives (Compositae-Anthemideae). *Plant Systematics and Evolution* 304: 1141–1155. <https://doi.org/10.1007/s00606-018-1537-9>
- Orsenigo S, Gottschlich G, Galasso G (2019) The typification and identity of *Hieracium australe* Fr. (Asteraceae). *Phytotaxa* 388(2): 207–211. <https://doi.org/10.11646/phytotaxa.388.2.8>
- Orsenigo S, Montagnani C, Fenu G, Gargano D, Peruzzi L, Abeli T, Alessandrini A, Bacchetta G, Bartolucci F, Bovio M, Brullo C, Brullo S, Carta A, Castello M, Cogoni D, Conti F, Domina G, Foggi B, Gennai M, Gigante D, Iberite M, Lasen C, Magrini S, Perrino EV, Prosser F, Santangelo A, Selvaggi A, Stinca A, Vagge I, Villani MC, Wagensommer RP, Wilhelm T, Tartaglini N, Duprè E, Blasi C, Rossi G (2018) Red Listing plants under full national responsibility: extinction risks and threats in the vascular flora endemic to Italy. *Biological Conservation* 224: 213–222. <https://doi.org/10.1016/j.biocon.2018.05.030>
- Ottonello M, Longo D (2018) *Noterelle*: 215, 217–220, 224–227. *Acta Plantarum Notes* 6: 161–173.
- Palanza A (1900) Flora della Terra di Bari. In: Jatta A (a cura di) *La Terra di Bari*. Tipografia dell’Editore V. Vecchi, Trani, 3: 1–90.
- Persson K (2009) *Colchicum longifolium* Castagne. In: Marhold K (Ed.) *IAPT/IOPB chromosome data* 7. *Taxon* 58(1): E6.

- Perrino EV, Silletti GN, Erben M, Wagensommer RP (2018) *Viola cassinensis* subsp. *lucana* (Violaceae), a new subspecies from the Lucanian Apennine, southern Italy. *Phyton* (Horn) 58(2): 109–115. [https://doi.org/10.12905/0380.phyton58\(2\)-2018-0109](https://doi.org/10.12905/0380.phyton58(2)-2018-0109)
- Peruzzi L, Bedini G (2018) Wikiplantbase #Toscana. Verso un catalogo collaborativo, online e gratuito delle piante vascolari di Toscana. <http://bot.biologia.unipi.it/wpb/toscana> [accessed: 11 June 2018]
- Peruzzi L, Conti F, Bartolucci F (2014) An inventory of vascular plants endemic to Italy. *Phytotaxa* 168(1): 1–75. <https://doi.org/10.11646/phytotaxa.168.1.1>
- Peruzzi L, Astuti G, Cambria S, Cresti L, Franzoni J, Roma-Marzio F, Spezia M (2018) Chromosome numbers for the Italian flora: 6. *Italian Botanist* 6: 91–96. <https://doi.org/10.3897/italianbotanist.6.30975>
- Peruzzi L, Domina G, Bartolucci F, Galasso G, Peccenini S, Raimondo FM, Albano A, Alessandrini A, Banfi E, Barberis G, Bernardo L, Bovio M, Brullo S, Brundu G, Brunu A, Camarda I, Carta L, Conti F, Croce A, Iamónico D, Iberite M, Iiriti G, Longo D, Marsili S, Medagli P, Pistarino A, Salmeri C, Santangelo A, Scassellati E, Selvi F, Soldano A, Stinca A, Villani M, Wagensommer RP, Passalacqua NG (2015) An inventory of the names of vascular plants endemic to Italy, their loci classici and types. *Phytotaxa* 196(1): 1–217. <https://doi.org/10.11646/phytotaxa.196.1.1>
- Pignatti S (2017a) *Flora d'Italia*, Vol. 1, ed. 2. Edagricole-New Business Media, Milano, 1064 pp.
- Pignatti S (2017b) *Flora d'Italia*, Vol. 2, ed. 2. Edagricole-New Business Media, Milano, 1178 pp.
- Polidori J-L, Arnoux J-C, Bellone C (2018) *Sempervivum adenotrichum* Burnat ou joubarbe à poils glanduleux, taxon méconnu des Alpes occidentales, observé dans les Alpes maritimes. *Riviera Scientifique* 102: 3–32.
- Ramírez E, Rufo L, Sánchez-Mata D, de la Fuente V (2019) *Arthrocaulon meridionalis* (Chenopodiaceae), a new species of Mediterranean flora. *Mediterranean Botany* 40(1): 33–41. <https://doi.org/10.5209/MBOT.59820>
- Rich TCG, Nicholls-Vuille F-L (2001) Taxonomy and distribution of European *Damasonium* (Alismataceae). *Edinburgh Journal of Botany* 58: 45–55. <https://doi.org/10.1017/S0960428601000464>
- Roccia A, Gluch O, Lampard S, Robinson A, Fleischmann A, McPherson S, Legendre L, Partrat E, Temple P (2016) *Pinguicula* of the temperate north. Redfern Natural History Productions, Dorset, 349 pp.
- Rosati L, Coppi A, Farris F, Fascetti S, Becca G, Peregrym M, Tan K, Selvi F (2018) The genus *Gymnospermium* (Berberidaceae) in Italy: identity and relationships of the populations at the western limit of the genus range. *Plant Biosystems*. <https://doi.org/10.1080/11263504.2018.1549613> [e-published: 31 Dec 2018]
- Schäfer HI (1973) Zur Taxonomie der *Vicia narbonensis* Gruppe. *Kulturpflanze* 21: 211–273. <https://doi.org/10.1007/BF02103161>
- Scholz H (2008) Some comments on the genus *Bromus* (Poaceae) and three new species. *Willdenowia* 38(2): 411–422. <https://doi.org/10.3372/wi.38.38203>
- Secchi F, Longo D (2018) *Noterelle*: 2238. *Acta Plantarum Notes* 6: 184.
- Selvi F (2009) *Notulae*: 1540–1541. In: Conti F, Nepi C, Scoppola A (Eds) *Notulae alla checklist della flora vascolare italiana 7 (1530–1567)*. *Informatore Botanico Italiano* 41(1): 131–132.

- Selvi F (2010) A critical checklist of the vascular flora of Tuscan Maremma (Grosseto province, Italy). *Flora Mediterranea* 20: 47–139.
- Silvestre S (2012) *Ipomoea* L. In: Castroviejo S, Aedo C, Lainz M, Muñoz Garmendia F, Nieto Feliner G, Paiva J, Benedí C (Eds) *Flora iberica*, Vol. 11: Real Jardín Botánico, CSIC, Madrid, 279–286.
- Smith PM (1980) *Bromus* L. In: Tutin TG, Heywood VH, Burges NA, Moore DM, Valentine DH, Walters SM, Webb DA (Eds) *Flora Europaea*, Vol. 5 (Alismataceae–Orchidaceae). Cambridge University Press, Cambridge, 182–190.
- Talavera S, Garcia-Murillo P (2010) *Zannichellia* L. In: Talavera S, Gallego MJ, Romero Zarco C, Herrero A (Eds) *Flora Iberica*, Vol. 17. Real Jardín Botánico, C.S.I.C., Madrid, 94–101.
- Talavera M, Sánchez Casimiro-Soriguer C, Talavera-Lozano S (2013) *Crepis* Sect. *Lepidoseris* sensu Babcock en la Península Ibérica y Baleares. *Acta Botanica Malacitana* 38: 231–240.
- Tammaro F, Pogliani M (1977) «*Andrachne telephioides*» L. nella Valle dell’Aterno, nuovo reperto per la Flora Abruzzese. *Webbia* 32(1): 135–145. <https://doi.org/10.1080/00837792.1977.10670087>
- Thiv M, Reyes-Betancort JA, Fragman-Sapir O (2019) Lifeforms as criterion for species delimitation: Are *Aristida adscensionis* and *A. coerulescens* (Aristidoideae, Poaceae) two species? *Phytotaxa* 393(1): 67–74. <https://doi.org/10.11646/phytotaxa.393.1.6>
- Tison J-M, De Foucault B (2014) *Flora Gallica – Flore de France*. Biotopes, Mèze, 1216 pp.
- Tomei PE, Guazzi E (1995) Le zone umide della Toscana. Lista generale delle entità vegetali. *Atti del Museo Civico di Storia Naturale di Grosseto* 15(1993): 107–152.
- Troia A, Schicchi R, Geraci A (2018) Typification of the Linnaean name *Ambrosinia bassii* and other nomenclatural remarks in the genus *Ambrosinia* (Araceae). *Taxon* 67(6): 1183–1186. <https://doi.org/10.12705/676.15>
- Turland NJ, Wiersema JH, Barrie FR, Greuter W, Hawksworth DL, Herendeen PS, Knapp S, Kusber W-H, Li D-Z, Marhold K, May TW, McNeill J, Monro AM, Prado J, Price MJ, Smith GF (Eds) (2018) International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code) adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017. *Regnum Vegetabile* 159: 1–254. <https://doi.org/10.12705/Code.2018>
- Turrise RE (2001) *Ipomoea imperati* (Vahl) Griseb. (Convolvulaceae), nouvelle entité pour la flore sicilienne. *Flora Mediterranea* 11: 373–378.
- Turrise RE (2005) Inquadramento fitosociologico dei popolamenti ad *Ipomoea imperati* (Convolvulaceae) della Sicilia. *Quaderni di Botanica Ambientale e Applicata* 16: 87–92.
- Tyler B, Borrill M, Chorlton K (1978) Studies in *Festuca*. X. Observations on germination and seedling cold tolerance in diploid *Festuca pratensis* and tetraploid *F. pratensis* var. *apennina* in relation to their altitudinal distribution. *Journal of Applied Ecology* 15(1): 219–226. <https://doi.org/10.2307/2402932>
- Uhlemann I (2017) The genus *Taraxacum* (Asteraceae, Cichorieae) sect. *Erythrosperma* in the northern coastal part of Croatia. *Schlechtendalia* 32: 1–24.
- Uotila P (2011) Ulmaceae. In: Euro+Med Plantbase – the information resource for Euro-Mediterranean plant diversity. <http://ww2.bgbm.org/EuroPlusMed/> [accessed: 10 April 2019].

- Vergari S, Dondini G, Biagioli M (1996) Primo contributo alla conoscenza delle Orchidaceae sull'Appennino Pistoiese. *Atti della Società Toscana di Scienze Naturali, Memorie, Serie B*, 103 (1995): 129–133.
- Viciani D, Baroni S, Nardi E (2008) Contribution to the knowledge of the vascular flora of Monte Beni and Sasso di Castro, two ultramafic mountains in Upper Mugello (Northern Tuscany). *Webbia* 63(2): 187–214. <https://doi.org/10.1080/00837792.2008.10670842>
- Viciani D, Gonnelli V, Gottschlich G (2013) Notulae sulla flora del Parco Nazionale delle Foreste Casentinesi, Monte Falterona e Campigna (Appennino Tosco-Romagnolo) 2: revisione di alcuni campioni critici di *Hieracium* subgen. *Hieracium* (Asteraceae) dell'Erbario Zangheri. *Quaderno di Studi e Notizie di Storia Naturale della Romagna* 37: 29–34.
- Wagner V, Durka W, Hensen I (2011) Increased genetic differentiation but no reduced genetic diversity in peripheral vs. central populations of a steppe grass. *American Journal of Botany* 98: 1173–1179. <https://doi.org/10.3732/ajb.1000385>
- Wahlsteen E, Tyler T (2019) Morphometric analyses and species delimitation in *Legousia* (Campanulaceae). *Willdenowia* 49(1): 21–33. <https://doi.org/10.3372/wi.49.49104>
- Zahn KH (1916) *Les Hieracium des Alpes Maritimes*. Georg & Cie, Libraires-éditeurs, Genève, Bale, 404 pp.
- Zangheri P (1966) Romagna Fitogeografica (5). Flora e vegetazione del medio e alto Appennino Romagnolo. *Webbia* 21(1): 1–450. <https://doi.org/10.1080/00837792.1966.10669838>

## Supplementary material I

### Supplementary material

Authors: Fabrizio Bartolucci, Gabriele Galasso

Data type: species data

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

Copyright notice: This dataset is made available under the Open Database License (<http://opendatacommons.org/licenses/odbl/1.0/>). The Open Database License (ODbL) is a license agreement intended to allow users to freely share, modify, and use this Dataset while maintaining this same freedom for others, provided that the original source and author(s) are credited.

Link: <https://doi.org/10.3897/italianbotanist.7.36148.suppl1>