

Notulae to the Italian alien vascular flora: 15

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Abstract

In this contribution, new data concerning the distribution of vascular flora alien to Italy are presented. It includes new records, confirmations, exclusions for Italy or for Italian administrative regions. Nomenclatural and distribution updates, published elsewhere, and corrections are provided as Suppl. material 1.

Keywords

Alien species, floristic data, Italy, nomenclature

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 has to be sent to FI Herbarium: Museo di Storia Naturale (Botanica), Sistema Museale di Ateneo, Via G. La Pira 4, 50121 Firenze (Italy). Those texts concerning nomenclatural novelties and typifications (only for accepted names) should be submitted electronically to Gabriele Galasso (gabriele.galasso@comune.milano.it). Each text should be within 1,000 characters (spaces included).

Floristic records

Acer buergerianum Miq. subsp. *buergerianum* (Sapindaceae)

+ (CAS) TAA: Lavis (Trento), loc. Stazione di Lavis (WGS84: 46.147654°N, 11.099471°E), in una aiuola, 212 m, 14 August 2021, *M. Simonazzi* (FI, ROV). – Casual alien species new for the flora of Trentino-Alto Adige.

A few young individuals (height below 50 cm) were found in an urban flowerbed.

M. Simonazzi

***Acer palmatum* Thunb. (Sapindaceae)**

+ (CAS) TAA: Tenna (Trento), loc. Visintainer, Biotopo “Pizè”, sponda del Torrente Vignola (WGS84: 46.0322870°N, 11.2620333°E), sponda torrentizia, 480 m, 25 April 2022, leg. *N. Marchi*, det. *N. Marchi*, *M. Simonazzi* (FI). – Casual alien species new for the flora of Trentino-Alto Adige.

An individual was found in the wild along the banks of the Vignola creek.

N. Marchi, *M. Simonazzi*

***Acer tataricum* L. subsp. *ginnala* (Maxim.) Wesm. (Sapindaceae)**

+ (CAS) TAA: Levico Terme (Trento), loc. Someari, Biotopo “Le inghiaie”, sponda della roggia “La vena” (WGS84: 46.0006175°N, 11.3176637°E), sponda di roggia al margine del bosco, 436 m, 7 June 2021, leg. *N. Marchi*, det. *M. Simonazzi*, *N. Marchi* (FI, ROV). – Casual alien subspecies new for the flora of Trentino-Alto Adige.

A few individuals were found along the banks of the Vena creek.

N. Marchi, *M. Simonazzi*

***Aesculus hippocastanum* L. (Sapindaceae)**

+ (CAS) PUG: Vico del Gargano (Foggia), loc. Mastrocianni (WGS84: 41.887860°N, 15.953290°E), margine stradale, 420 m, 29 August 2022, *N. Biscotti*, *D. Bonsanto* (FI). – Casual alien species new for the flora of Puglia.

N. Biscotti, *D. Bonsanto*

***Aloë perfoliata* L. (Asphodelaceae)**

+ (CAS) SIC: Petrosino (Trapani), Torre Sibiliana (WGS84: 37.723575°N, 12.473320°E), arid garrigue, 2 m, 11 May 2022, *G. Domina* (FI, PAL). – Casual alien species new for the flora of Sicilia.

Some flowering individuals were observed.

E. Di Gristina, *G. Barone*

***Bambusa vulgaris* Schrad. ex J.C.Wendl. (Poaceae)**

– **ITALIA (SAR)**. – Alien species to be excluded from the flora of Italy (Sardegna).

Based on a review of the available literature, all the naturalized bamboo populations of Sardegna previously attributed to this species (Martinoli 1951; Camarda et al. 2016; Galasso et al. 2018; Calvia and Ruggero 2020) are to be attributed to *Phyllostachys aurea* Carrière ex Revière & C.Revière. *Bambusa vulgaris* ‘Vittata’ is cultivated in some gardens as ornamental.

A. Lallai, *M. Sarigu*

***Bidens sulphurea* (Cav.) Sch.Bip. (Asteraceae)**

+ (CAS) **BAS:** Potenza (Potenza), Discesa San Gerardo (WGS84: 40.641315°N, 15.805873°E), bordo strada, 790 m, 15 September 2021, *L. Rosati, G. Potenza* (FI). – Casual alien species new for the flora of Basilicata.

We observed some flowering individuals.

G. Potenza

***Calocedrus decurrens* (Torr.) Florin (Cupressaceae)**

+ (CAS) **EMR:** Modena (Modena), Cimitero di San Cataldo, tombe antiche sul lato S presso l'ingresso lato Piazza F. Setti (WGS84: 44.658293°N, 10.909558°E), angolo di terreno incolto coperto d'edera presso il muro di cinta, 35 m, 19 November 2022, *F. Buldrini, C. Santini* (FI). – Casual alien species new for the flora of Emilia-Romagna.

One individual, probably 3–5 years old (23-cm tall), grows in a shady place at about 40 m from the putative parent plants (four adult ornamental trees in a row).

F. Buldrini, C. Santini

***Catalpa bignonioides* Walter (Bignoniaceae)**

+ (CAS) **TOS:** Siena (Siena), fiume canalizzato vicino all'area industriale (WGS84: 43.310626°N, 11.359643°E), 213 m, 29 July 2022, leg. *T. Fiaschi, R. Fedeli*, det. *T. Fiaschi, S. Cannucci* (FI, SIENA). – Casual alien species new for the flora of Toscana.

This species is similar to *Catalpa ovata* G.Don and *C. speciosa* Teas. According to Olsen and Kirkbride (2017), it differs from *C. ovata* by the leaf morphology (trilobate leaf blade in *C. ovata* vs entire in *C. bignonioides*). The differences between *C. bignonioides* and *C. speciosa* concern seed body dimensions and morphological aspects, i.e., 4.5–5.5×30–42 mm, with sides drawn out to an acute apex in *C. bignonioides* vs 5.5–7.5×26–31 mm, with sides drawn out to an obtuse apex in *C. speciosa*. Some young individuals and some fruiting ones were found.

T. Fiaschi, S. Cannucci

***Cedrus atlantica* (Endl.) G.Manetti ex Carrière (Pinaceae)**

+ (CAS) **LIG:** Pornassio (Imperia), Colle di Nava, lungo la strada che dalla strada SS28 Nord porta al Forte Centrale (WGS84: 44.083667°N, 7.873605°E), muretto a secco che costeggia la strada, 943 m, 19 September 2022, *M. Lonati, G. Nota* (FI). – Casual alien species new for the flora of Liguria.

A young individual was found on dry-stone walls along a paved road near the Forte Centrale. Other individuals, about 30–40-cm tall, also grew on the walls of the Forte. These individuals were generated by adult *Cedrus atlantica* trees cultivated in the surroundings.

M. Lonati, G. Nota

***Datura innoxia* Mill. (Solanaceae)**

– **PIE.** – Alien species to be excluded from the flora of Piemonte.

This species was reported for Piemonte by Abbà (1977, 1986), Correggia (2002), Rota and Cavallo (2005), and Lonati (2006). The specimens from Alba (Cuneo) and Baldissero d'Alba (Cuneo), cited by Abbà (1977, 1986) and preserved in ALBA (Pistardino et al. 1999), should be referred to *Datura wrightii* Regel (revision by A. Selvaggi, F. Rota, 25 November 2022). The specimens from Pocapaglia (Cuneo), cited by Rota and Cavallo (2005) and preserved in CBRA and ALBA, and the plant collected in 1879 by F. Craveri in Bra (Cuneo) and conserved in CBRA (Rota and Cavallo 2005) should be referred to *D. wrightii* (revision by F. Rota, 25 November 2022). The specimen from Viverone (Biella), cited by Lonati (2006) and preserved in TO, should also be referred to *D. wrightii* (revision by A. Selvaggi, 3 November 2022). The record by Correggia (2002) from Mondonio, in the municipality of Castelnuovo Don Bosco (Asti), has no linked specimens that can be verified and the ephemeral populations recorded in 2002 are at present not confirmed. Moreover, the photo of the plant seen in this place seems to refer to *D. wrightii*. Consequently, *Datura innoxia* is excluded from the flora of Piemonte.

A. Selvaggi, F. Rota

***Datura wrightii* Regel (Solanaceae)**

+ **(CAS) VDA:** Chambave (Aosta), ambienti ruderali a W della ex stazione ferroviaria (WGS84: 45.74418°N, 7.55635°E), ambiente ruderales, 468 m, 15 August 2022, A. Selvaggi (FI, AO). – Casual alien species new for the flora of Valle d'Aosta.

A. Selvaggi

***Digitaria violascens* Link (Poaceae)**

+ **(CAS) LIG:** Santo Stefano di Magra (La Spezia), tra Falcinello (fraz. di Sarzana) e Ponzano Superiore (WGS84: 44.159202°N, 9.954352°E), bordo strada, 300 m, 21 September 2019, leg. S. Argenti, C. Argenti, det. C. Argenti, conf. F. Verloove (FI, Herb. C. Argenti). – Casual alien species new for the flora of Liguria.

Several individuals were found.

C. Argenti

***Ehrharta erecta* Lam. (Poaceae)**

+ **(CAS) LIG:** Santo Stefano al Mare (Imperia), sulla costa (WGS84: 43.837915°N, 7.893002°E), spiaggia, 0 m, 21 March 2022, C. Bonifazio, S. Tripi (FI); Taggia (Imperia), Arma di Taggia, sulla costa (WGS84: 43.830717°N, 7.852751°E), spiaggia, 0 m, 8 April 2022, C. Bonifazio, S. Tripi (FI). – Casual alien species new for the flora of Liguria.

S. Tripi, C. Bonifazio

***Eragrostis mexicana* (Hornem.) Link subsp. *virescens* (J.Presl) S.D.Koch & Sánchez Vega (Poaceae)**

+ (CAS) **BAS:** Viggiano (Potenza), Via Valloni 2^a Traversa (WGS84: 40.312842°N, 15.920795°E), a lato strada, 584 m, 20 September 2022, leg. et det. *F. Santi*, conf. *E. Banfi* (FI). – Casual alien subspecies new for the flora of Basilicata.

F. Santi

***Gazania linearis* (Thunb.) Druce (Asteraceae)**

+ (CAS) **CAM:** Centola (Salerno), spiaggia a S di Torre dei Caprioli (WGS84: ca. 40.051801°N, 15.282958°E), spiaggia, 0 m, 17 March 1994, *A. De Natale* (*Herb. A. De Natale* No. 2904). – Casual alien species new for the flora of Campania.

According to the key published by Laguna Lumbreraras and Ferrer Gallego (2013), the specimens cited as *Gazania rigens* (L.) Gaertn. for Cilento by De Natale and Strumia (2007) are to be attributed to *G. linearis*.

E. Del Guacchio, A. De Natale

***Impatiens parviflora* DC. (Balsaminaceae)**

+ (NAT) **MAR:** Arquata del Tronto (Ascoli Piceno), Pescara del Tronto, Parco Nazionale del Gran Sasso e Monti della Laga, lungo la sponda destra del Fiume Tronto (WGS84: 42.74840636°N, 13.27191404°E), megaforbieto ripariale, 660 m, 8 September 2022, *F.M. Tardella*, *R. Pennesi*, *R. Vetromile* (FI, CAME). – Naturalized alien species new for the flora of Marche.

The species can be found sporadically along the banks of the Tronto river.

F.M. Tardella, R. Vetromile

***Jasminum nudiflorum* Lindl. (Oleaceae)**

+ (CAS) **PUG:** Vico del Gargano (Foggia), centro storico (WGS84: 41.919412°N, 15.920386°E), in sacche di terra su roccia, 442 m, 21 February 2022, *D. Bonsanto*, *N. Biscotti* (FI). – Casual alien species new for the flora of Puglia.

D. Bonsanto, N. Biscotti

***Oenothera speciosa* Nutt. (Onagraceae)**

+ (CAS) **ABR:** Chieti (Chieti), quartiere Chieti Scalo, Via Pescasseroli (WGS84: 42.362654°N, 14.144006°E), incolto al margine della strada, ambiente urbano con vegetazione sinantropica, 38 m, 5 May 2022, *A. Pica*, *J. Lupoletti* (FI). – Casual alien species new for the flora of Abruzzo.

The species covered about 30 m².

A. Pica, J. Lupoletti

***Opuntia microdasys* (Lehm.) Pfeiff. (Cactaceae)**

+ (NAT) UMB: Arrone (Terni), fraz. Casteldilago, rupe inaccessibile sotto il paese (WGS84: 42.578190°N, 12.759101°E), rupe, 235 m, 30 October 2021, *F. Lucchese* (photo in FI). – Naturalized alien species new for the flora of Umbria.

F. Lucchese, G. Ratini

***Opuntia monacantha* Haw. (Cactaceae)**

+ (CAS) UMB: Arrone (Terni), fraz. Casteldilago, rupe inaccessibile sotto il paese (WGS84: 42.578090°N, 12.759189°E), rupe, 252 m, 30 October 2021, leg. *F. Lucchese*, det. *A. Guiggi* (photo in FI). – Casual alien species confirmed for the flora of Umbria.

Opuntia monacantha was previously reported as doubtfully occurring in Umbria (Galasso et al. 2018), but this record turned out to be never published. The plants are mixed with many individuals of *O. humifusa* (Raf.) Raf.

F. Lucchese, G. Ratini

***Opuntia stricta* (Haw.) Haw. (Cactaceae)**

+ (INV) UMB: Terni (Terni), loc. Le Pisciarelle (WGS84: 42.604104°N, 12.611363°E), pendio pietroso in radura boschiva con leccio e *Pinus halepensis*, 400 m, 17 October 2022, leg. *P. Ratini*, det. *A. Guiggi* (FI). – Invasive alien species new for the flora of Umbria.

Opuntia stricta was observed also in other localities in the province of Terni: Arrone, fraz. Casteldilago (WGS84: 42.578090°N, 12.759189°E); Amelia, fraz. Fornole (WGS84: 42.539353°N, 12.459980°E, and 42.541411°N, 12.465183°E); Amelia, fraz. Sambucetole (WGS84: 42.596905°N, 12.435835°E). This species invades terraces of former olive groves, holm oak clearings, natural cliffs, and artificial escarpments. In the locality upstream of Fornole, about 31 ha are covered by it. In the locality of Le Pisciarelle, it may have hybridized with *O. humifusa* (Raf.) Raf. with which it shares the same habitat.

F. Lucchese, G. Ratini

***Paspalum denticulatum* Trin. (Poaceae)**

+ (NAT) ITALIA (LOM): Milano (Milano), Largo Cairoli, aiuola attorno al monumento in centro alla piazza (WGS84: 45.468240°N, 9.182434°E), tappeto erboso, 124 m, no exp., 5 July 2021, leg. *G. Galasso*, det. *E. Banfi* (MSNM No. 51237 sub *P. dilatatum*); *ibidem*, 21 September 2021, leg. *G. Galasso*, det. *E. Banfi* (MSNM No. 51238 sub *P. dilatatum*); *ibidem*, Via Monte Cimone, spartitraffico alberato (WGS84: 45.450573°N, 9.226346°E), tappeto erboso, 109 m, no exp., 20 November 2022, *E. Banfi* (FI, MSNM barcode MSNM52201). – Naturalized alien species new for the flora of Italy (Lombardia).

This species is native to central-southern America, and shows a high diversity; it belongs to a group of four taxa, treated as synonyms by Zuloaga and Morrone (2005) and by Denham et al. (2010), the best known of which is *Paspalum lividum* Trin. ex Schltld. The latter name was adopted by Allen and Hall (2003) in the treatment of Flora of North America. In any case, even keeping the two species separate, our find fits better with *P. denticulatum* on morphological grounds, especially regarding the width of the leaf blade (up to 9 mm).

E. Banfi, G. Galasso

***Perilla frutescens* (L.) Britton (Lamiaceae)**

+ (CAS) CAM: Napoli (Napoli), Via M. Pietravalle (WGS84: 40.868711°N, 14.226402°E), bordo strada, 251 m, 21 June 2020, leg. R. Motti, det. A. Cozzolino, R. Motti (FI, PORUN). – Casual alien species new for the flora of Campania.

R. Motti, A. Cozzolino

***Petunia axillaris* (Lam.) Britton, Sterns & Poggenb. (Solanaceae)**

+ (CAS) SIC: Palermo (Palermo), Via Imera (WGS84: 38.117153°N, 13.348883°E), negli interstizi dei marciapiedi, 30 m, 16 July 2021, leg. E. Di Gristina, det. E. Di Gristina, G. Domina (FI). – Casual alien species new for the flora of Sicilia.

Petunia axillaris is an annual herbaceous plant native to temperate southern America, characterized by a hypocraterimorph white corolla, with a sub-terete tube (Flora e Funga do Brasil 2023 [onwards]). Some mature individuals have been found.

E. Di Gristina, G. Barone

***Physalis philadelphica* Lam. (Solanaceae)**

+ (CAS) ABR: Scafa (Pescara), loc. Decontra (WGS84: 42.239886°N, 14.025695°E), margine stradale nei pressi di una cava di gesso caratterizzato da vegetazione ruderale, 216 m, 16 October 2021, J. Lupoletti, A. Pica (FI). – Casual alien species new for the flora of Abruzzo.

A single specimen was observed.

J. Lupoletti, A. Pica

***Ruellia simplex* C.Wright (Acanthaceae)**

+ (CAS) SIC: Palermo (Palermo), lungo Corso Tukory (WGS84: 38.108403°N, 13.357091°E), aiuola e bordo strada, 30 m, 6 July 2022, E. Bajona (FI, PAL). – Casual alien species new for the flora of Sicilia.

In Sicilia, *Ruellia simplex* spreads spontaneously also in the Botanical Garden of Palermo, where it grows in some pots and flowerbeds, near the cultivated specimen.

E. Bajona

***Saxifraga stolonifera* Curtis (Saxifragaceae)**

+ (CAS) **PIE:** Mergozzo (Verbano-Cusio-Ossola), nei pressi di Via Nostrani Celso (WGS84: 45.959391°N, 8.448122°E), terrazzamento incolto e muretti a secco adiacenti alla strada, 218 m, 6 September 2021, *M. Pittarello*, *D. Barberis* (FI). – Casual alien species new for the flora of Piemonte.

The species has colonized an area of a few square meters.

M. Pittarello, D. Barberis

***Solanum nitidibaccatum* Bitter (Solanaceae)**

+ (NAT) **LOM:** Acquanegra Cremonese (Cremona), Via Crotta D'Adda (WGS84: 45.163122°N, 9.887033°E), campo con stoppie di mais, 42 m, no exp, 31 October 2022, *F. Bonali* (FI, *Herb. F. Bonali*). – Naturalized alien species new for the flora of Lombardia.

Numerous individuals are present in three contiguous fields.

F. Bonali

***Tulbaghia violacea* Harv. (Amaryllidaceae)**

+ (CAS) **LIG:** Pietra Ligure (Savona), scogli di retrospiaggia presso il confine con Loano (WGS84: 44.139524°N, 8.269283°E), rupi costiere con accumulo di sabbia, 5 m, no exp., 30 August 2022, *G. Galasso* (FI, MSNM barcode MSNM52197). – Casual alien species new for the flora of Liguria.

A single small tuft was observed.

G. Galasso, E. Banfi

Nomenclatural and distribution updates from other literature sources

Nomenclatural, status, and distribution updates according to Abbà (1977), Applequist (2023), Bonali (2023), Brusa (2022), Cambria et al. (2023), Carrega and Silla (1999), Conti and Bartolucci (2023), Conti and Giacanelli (2023), Conti et al. (2023), Denham et al. (2010), Di Pietro et al. (2022), Galasso (2009, 2023), Ganz (2022), Ganz et al. (2022a, 2022b), Gariboldi (2022), Iamónico and Bovio (2023), IPNI (2022 [onwards]), Manzi and Truzzi (2023), Martínez-González et al. (2022), Peruzzi (2023), POWO (2022 [onwards], 2023 [onwards]), Prosser et al. (2022), Sennikov et al. (2023), Simonazzi and Truzzi (2023), Tropicos (2022 [onwards]), Viegi and Cela Renzoni (1981), Villa et al. (2022), and Wilson (2022), and corrections to Galasso et al. (2018) and subsequent updates summarised in the Portal to the Flora of Italy (2023) are provided in Suppl. material 1.

G. Galasso, F. Bartolucci

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References

- Abbà G (1977) La flora del territorio alla sinistra del Tanaro. Tra Bra ed Asti e tra Alba e Pralormo. *Allionia* 22: 221–227.
- Abbà G (1986) La flora delle Langhe. *Alba Pompeia* 7(1): 35–52.
- Allen CM, Hall DW (2003) *Paspalum* L. In: Flora of North America Editorial Committee (Ed.) Flora of North America North of Mexico, Vol. 25. Oxford University Press, New York, Oxford, 566–599.
- Applequist WL (2023) Report of the Nomenclature Committee for Vascular Plants: 73. *Taxon* 72(1): 179–204. <https://doi.org/10.1002/tax.12871>
- Bonali F (2023) Notulae 591–601. In: Galasso G, Banfi E (Eds) Notulae ad plantas advenas Longobardiae spectantes: 10 (567–673). *Pagine Botaniche* 44–45 [2021–2022]: 178–184.
- Brusa G (2022) Contributo all'incremento delle conoscenze floristiche in Valle d'Aosta. *Revue Valdôtaine d'Histoire Naturelle* 76: 55–68.
- Calvia G, Ruggero A (2020) The vascular flora of Mount Limbara (northern Sardinia): from a troubled past towards an uncertain future. *Flora Mediterranea* 30: 293–313. <https://doi.org/10.7320/FIMedit30.293>
- Camarda I, Cossu TA, Carta L, Brunu A, Brundu G (2016) An updated inventory of the non-native flora of Sardinia (Italy). *Plant Biosystems* 150(5): 1106–1118. <https://doi.org/10.1080/11263504.2015.1115438>
- Cambria S, Azzaro D, Caldarella O, Aleo M, Bazan G, Guarino R, Torre G, Cristaudo AE, Ilardi V, La Rosa A, Laface VLA, Luchino F, Mascia F, Minissale P, Sciandrello S, Tosetto L, Tavilla G (2023) New data on native and alien vascular flora of Sicily (Italy): new findings and updates. *Plants* 12(9): 1743. <https://doi.org/10.3390/plants12091743>
- Carrega M, Silla D (1999) Ricerche floristiche nel Novese e nel Tortonese (Povincia di Alessandria, Piemonte sud orientale) (Aggiornamento anni 1994–1997). *Rivista Piemontese di Storia Naturale* 20: 3–18.
- Conti F, Bartolucci F (2023) Taxonomy and distribution of *Spiraea hypericifolia* in Italy and typification of the name *S. flabellata* (Rosaceae). *Plants* 12(3): 536. <https://doi.org/10.3390/plants12030536>
- Conti F, Falcinelli F, Giacanelli V, Santucci B, Miglio M, Manzi A, Bartolucci F (2023) New floristic data of vascular plants from central Italy. *Natural History Sciences* 10(1): 51–56. <https://doi.org/10.4081/nhs.2023.636>

- Conti F, Giacanelli V (2023) Contribution to the vascular flora of Ventotene and Santo Stefano islands (Isole Ponziane, Lazio, Italy) with two taxa new to Lazio. *Natural History Sciences* 10(1): 83–86. <https://doi.org/10.4081/nhs.2023.637>
- Correggia F (2002) Flora vascolare del settore nord-occidentale della provincia di Asti (Piemonte, Italia NW). *Rivista Piemontese di Storia Naturale* 23: 3–92.
- De Natale A, Strumia S (2007) La flora della costa sabbiosa del Parco Nazionale del Cilento e Vallo di Diano (Salerno). *Webbia* 62(1): 53–75. <https://doi.org/10.1080/00837792.2007.10670816>
- Denham SS, Morrone O, Zuloaga FO (2010) Estudios en el género *Paspalum* (Poaceae, Panicoideae, Paniceae): *Paspalum denticulatum* y especies afines. *Annals of the Missouri Botanical Garden* 97(1): 11–33. <https://doi.org/10.3417/2008092>
- Di Pietro R, Giardini M, Iamonico D, Tondi G, Angeloni D, Carli E, Aleffi M, Azzella MM, Di Pietro F, Proietti E, Ravera S, Fortini P (2022) Floristic and coenological data from the travertine substrates of the SAC “Travertini Acque Albule (Bagni di Tivoli)” (Lazio Region – Central Italy). *Plant Sociology* 59(2): 51–70. <https://doi.org/10.3897/pls2022592/05>
- Flora e Funga do Brasil (2023 [onwards]) *Petunia*. In: Flora e Funga do Brasil. Jardim Botânico do Rio de Janeiro. <https://floradobrasil.jbrj.gov.br/FB14687> [Accessed 28.03. 2023]
- Galasso G (2009) Notulae 5–6. In: Nepi C, Peccenini S, Peruzzi L (Eds) Notulae alla flora esotica d'Italia: 1 (1–21). *Informatore Botanico Italiano* 41(2): 359–360.
- Galasso G (2023) Notulae 567–571. In: Galasso G, Banfi E (Eds) Notulae ad plantas advenas Longobardiae spectantes: 10 (567–673). *Pagine Botaniche* 44–45[2021–2022]: 157–160.
- Galasso G, Conti F, Peruzzi L, Ardenghi NMG, Banfi E, Celesti-Grapow L, Albano A, Alessandrini A, Bacchetta G, Ballelli S, Bandini Mazzanti M, Barberis G, Bernardo L, Blasi C, Bouvet D, Bovio M, Cecchi L, Del Guacchio E, Domina G, Fascetti S, Gallo L, Gubellini L, Guiggi A, 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, Podda L, 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, Bartolucci F (2018) An updated checklist of the vascular flora alien to Italy. *Plant Biosystems* 152(3): 556–592. <https://doi.org/10.1080/11263504.2018.1441197>
- Ganz C (2022) Nota 275. *Dysphania ambrosioides* (L.) Mosyakin & Clemants (Chenopodiaceae). In: Bovio M (Ed.) Note di aggiornamento al volume Flora vascolare della Valle d'Aosta – 8. *Revue Valdôtaine d'Histoire Naturelle* 76: 91.
- Ganz C, Bovio M, Broglio M (2022a) Nota 278. *Calendula officinalis* L. (Asteraceae). In: Bovio M (Ed.) Note di aggiornamento al volume Flora vascolare della Valle d'Aosta – 8. *Revue Valdôtaine d'Histoire Naturelle* 76: 92.
- Ganz C, Bovio M, Broglio M (2022b) Nota 276. *Syringa vulgaris* L. (Oleaceae). In: Bovio M (Ed.) Note di aggiornamento al volume Flora vascolare della Valle d'Aosta – 8. *Revue Valdôtaine d'Histoire Naturelle* 76: 91.
- Gariboldi L (2022) Note floristiche interessanti per la Lombardia, e non solo. Secondo contributo. *Pianura* 41: 26–40.

- Iamónico D, Bovio M (2023) Studies on the genus *Atriplex* (Chenopodiaceae) in Italy. VII. *Atriplex micrantha* and *A. oblongifolia*. *Hacquetia* 22(1): 97–105. <https://doi.org/10.2478/hacq-2022-0010>
- IPNI (2022[onwards]) *Aesculus carnea* Zeyher. In: International Plant Names Index. The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Botanic Gardens. <https://www.ipni.org/n/927643-1> [Accessed 21.12.2022]
- Laguna Lumbreras E, Ferrer Gallego PP (2013) *Gazania* Gaertn. (Asteraceae): táxones escapados de cultivo en la Comunidad Valenciana (España). *Bouteloua* 13: 3–10.
- Lonati M (2006) Nota n. 33. *Datura innoxia* Miller (Solanaceae). In: Selvaggi A, Soldano A, Pascale M (Eds) Note floristiche piemontesi n. 13–47. *Rivista Piemontese di Storia Naturale* 27: 435.
- Manzi G, Truzzi A (2023) Notulae 581–583. In: Galasso G, Banfi E (Eds) *Notulae ad plantas advenas Longobardiae spectantes*: 10 (567–673). *Pagine Botaniche* 44–45 [2021–2022]: 171–174.
- Martínez-González CR, Gallegos-Vázquez C, Mascorro-Gallardo JO, Barrientos-Priego AF (2022) Molecular and morphological notes on *Opuntia* ser. *Streptacanthae* (Cactaceae). *Phytotaxa* 576(1): 1–28. <https://doi.org/10.11646/phytotaxa.576.1.1>
- Martinoli G (1951) *Index seminum 1951*. Hortus Calaritanus, Cagliari.
- Olsen RT, Kirkbride JH (2017) Taxonomic revision of the genus *Catalpa* (Bignoniaceae). *Brittonia* 69(3): 387–421. <https://doi.org/10.1007/s12228-017-9471-7>
- Peruzzi L (2023) The vascular flora of Empoli (Tuscany, central Italy). *Italian Botanist* 15: 21–33. <https://doi.org/10.3897/italianbotanist.15.101748>
- Pistarino A, Forneris G, Fossa V (1999) *Le collezioni di Giacinto Abbà. Catalogo e note critiche delle raccolte botaniche in Piemonte (1965–1998)*, Vols 1–2. Museo Regionale di Scienze Naturali di Torino, Torino.
- Portal to the Flora of Italy (2023) *Portale della Flora d'Italia/Portal to the Flora of Italy*. 2022.2. <https://dryades.units.it/floritaly/> [Accessed 30.04.2023]
- POWO (2022[onwards]) *Aesculus ×carnea* Zeyh. In: *Plants of the World Online*. Facilitated by the Royal Botanic Gardens, Kew. <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:927643-1> [Accessed 21.12.2022]
- POWO (2023[onwards]) *Gazania ×splendens* Hend. & A.A.Hend. In: *Plants of the World Online*. Facilitated by the Royal Botanic Gardens, Kew. <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:208729-1> [Accessed 04.04.2023]
- Prosser F, Bertolli A, Festi F, Tomasi G (2022) Segnalazioni floristiche veronesi. II. *Annali del Museo Civico di Rovereto. Sezione: Archeologia, Storia, Scienze Naturali* 38: 39–58. <https://doi.org/10.53135/ANNMUSCIVROV20223804>
- Rota F, Cavallo O (2005) Nuovi dati sulla flora del territorio alla sinistra del Tanaro fra Alto Monferrato e Roero. *Alba Pompeia* 26: 5–55.
- Sennikov A, Khassanov F, Ortikov E, Kurbonaliyeva M, Tojibaev KS (2023) The genus *Iris* L. s.l. (Iridaceae) in the mountains of central Asia biodiversity hotspot. *Plant Diversity of Central Asia* 2(1): 1–104. https://doi.org/10.54981/PDCA/vol2_iss1/a1
- Simonazzi M, Truzzi A (2023) Notulae 578–580. In: Galasso G, Banfi E (Eds) *Notulae ad plantas advenas Longobardiae spectantes*: 10 (567–673). *Pagine Botaniche* 44–45 [2021–2022]: 168–171.

- Tropicos (2022[onwards]) *Aesculus ×carnea* J. Zeyh. In: Tropicos v3.3.2. Tropicos.org. Missouri Botanical Garden. <https://www.tropicos.org/name/100489228> [Accessed 21.12.2022]
- Viegi L, Cela Renzoni G (1981) Flora esotica d'Italia: le specie presenti in Toscana. Consiglio Nazionale delle Ricerche, Collana del Programma finalizzato "Promozione della qualità dell'ambiente" AQ/1/132, Pavia.
- Villa M, Banfi E, Galasso G (2022) Flora vascolare del Parco regionale di Montevicchia e della Valle del Curone (Lombardia, Italia settentrionale). *Natura* 112(2): 1–64.
- Wilson KL (2022) Report of the General Committee: 24. *Taxon* 71(6): 1315–1318. <https://doi.org/10.1002/tax.12862>
- Zuloaga FO, Morrone O (2005) Revisión de las especies de *Paspalum* para América del sur austral (Argentina, Bolivia, Sur del Brasil, Chile, Paraguay y Uruguay). Missouri Botanical Garden Press, St. Louis.

Supplementary material I

Categories concerning the occurrence status of taxa

Authors: Gabriele Galasso, Fabrizio Bartolucci

Data type: species data

Explanation note: 1. Nomenclatural updates; 2. Note updates; 3. Distribution updates; 4. Synonyms, misapplied or included names.

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