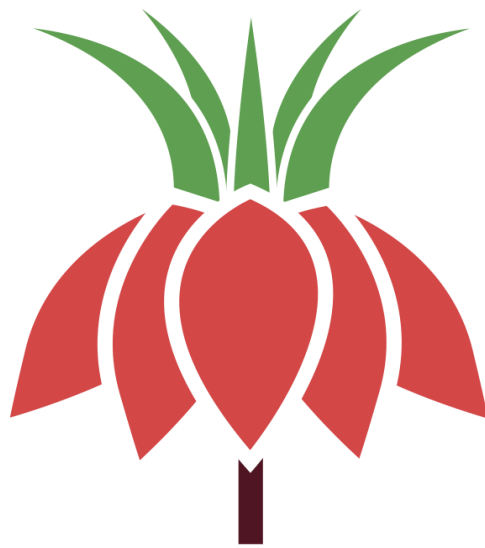


DELECTUS SEMINUM
Quae pro mutua commutatione offert
HORTUS BOTANICUS PISANUS
Year 2022



ORTO E MUSEO BOTANICO
UNIVERSITÀ DI PISA
1543

Sistema Museale di Ateneo
Via Luca Ghini 13, I-56126 Pisa
e-mail: ortomuseobot@unipi.it

BOTANIC GARDEN STAFF

Director: Lorenzo Peruzzi

Curator: Marco D'Antraccoli

Seed bank manager: Giovanni Astuti

Seed bank operator: Luca Ciampi

Seed collectors for 2021: Luca Ciampi, Marco D'Antraccoli, Edoardo Fanucchi, Jacopo Franzoni, Antonio Giacò, Gemma Giannetti, Andrea Giannotti, Piero Micheletti, Lorenzo Peruzzi, Lorenzo Pinzani, Manuel Tiburtini, Silvia Zublena.

Visit our [website](#) for more information about the garden and the museum!

HOW TO READ THE *INDEX SEMINUM*

PT-o-PI-2021-0358

IPEN code

Armeria pungens (Link) Hoffmanns. & Link

Material source

[W]; Praia de Bela Vista, Portugal, 11 August 2021; collected in the *locus classicus*]

Collection data

Additional information

- **IPEN code:** the code to be used in the request form
- **Material source:**
 - **W:** seeds collected in the wild
 - **G:** seeds collected in the Botanic Garden. When the gathering was carried out elsewhere, the source institute is reported in round bracket
 - **G(W):** seeds from plants cultivated in the Botanic Garden but originally collected in the wild. The date refers to the seed collection made in the garden
- **Collection data:** date and locality of collection
- **Additional information:** further notes

Pan-European seed list search keyword

([http://www.botanicgardens.eu/EBG Seed List.pdf](http://www.botanicgardens.eu/EBG_Seed_List.pdf))

seminumsystem2022 - seminumwild2022

Taxonomic and nomenclatural notes

We used the APG IV classification for angiosperms' families.

For taxa recorded in Italy, we followed the nomenclature and taxonomic circumscription adopted by the [Portal to the Flora of Italy](#).

For taxa recorded abroad, we followed [World Flora Online](#).

Families and taxa within families are listed in alphabetical order.

Notes on propagules conservation

After a drying stage (15 °C, 15 RH), seeds are placed in sealed containers at -20 °C for long term conservation.

ALISMATACEAE

XX-0-PI-2020-1093 *Alisma plantago-aquatica* L.
[G; 2019]

AMARYLLIDACEAE

IT-0-PI-2021-0167 *Pancratium maritimum* L.
[G(W); Calambrone, Pisa, Toscana, Italy, 2021]

XX-0-PI-2020-0861 *Tulbaghia violacea* Harv.
[G; 2021]

APIACEAE

IT-0-PI-2020-2026 *Bupleurum fruticosum* L.
[G(W); Candeli, Bagno a Ripoli, Firenze, Toscana, Italy, 2021]

XX-0-PI-2020-1714 *Eryngium amethystinum* L.
[G; 2021]

IT-0-PI-2020-2268 *Sanicula europaea* L.
[W; between Abetone and Mt. Maiori, Pistoia, Toscana, Italy, 31 July 2020]

IT-0-PI-2020-0259 *Tommasinia altissima* (Mill.) Reduron
[G(W); Santa Brigida, Pontassieve, Firenze, Toscana, Italy, 2021]

ASPARAGACEAE

XX-0-PI-2020-0846 *Albuca nelsonii* N.E.Br.
[G; 2021]

XX-0-PI-2020-0749 *Muscari armeniacum* Leichtlin ex Baker
[G; 2020]

XX-0-PI-2020-0959 *Muscari latifolium* J.Kirk
[G; 2020]

XX-0-PI-2020-0960 *Muscari neglectum* Guss. ex Ten.
[G; 2017]

IT-0-PI-2020-2374 *Prospero autumnale* (L.) Speta
[W; Avane, Vecchiano, Pisa, Toscana, Italy, 2021]

ASPHODELACEAE

IT-0-PI-2020-0962 *Asphodelus macrocarpus* Parl.
[G(W); Passo Croce, Lucca, Toscana, Italy, 2020]

XX-0-PI-2020-0806 *Eremurus himalaicus* Baker
[G; 2020]

ZA-0-PI-2020-1643 *Gasteria carinata* (Mill.) Duval var. *carinata*
[G(W); Melkbos, Bredasdorp, South Africa, 2021]

ZA-0-PI-2020-1638 *Gasteria pulchra* (Aiton) Haw.
[G(W); Fraser's Camp, Grahamstown, South Africa, 2021]

ASTERACEAE

- IT-o-PI-2020-2286 *Carthamus caeruleus* L.
[W; Tarsia, Cosenza, Calabria, Italy, 3 September 2020]
- IT-o-PI-2020-2280 *Centaurea aplolepa* Moretti subsp. *subciliata* (DC.) Arcang.
[W; Rimigliano, Livorno, Toscana, Italy, 1 September 2020]
- IT-o-PI-2020-1777 *Centaurea arrigonii* Greuter
[G(W); Arni, Lucca, Toscana, Italy, 2020]
- XX-o-PI-2020-0398 *Cota tinctoria* (L.) J.Gay
[G; 2020]
- IT-o-PI-2021-0356 *Crupina vulgaris* Cass.
[W; San Marco Argentano Scalo, Cosenza, Calabria, Italy, 21 August 2021]
- IT-o-PI-2021-0357 *Gelasia villosa* (Scop.) Cass. subsp. *columnae* (Guss.)
Bartolucci, Galasso & F.Conti
[W; Tarsia, Cosenza, Calabria, Italy, 25 August 2021]
- IT-o-PI-2020-2283 *Klasea flavescens* (L.) Holub subsp. *cichoracea* (L.) Greuter
& Wagenitz
[W; Monte Argentario, Grosseto, Italy, August 2020]
- IT-o-PI-2020-0731 *Leucanthemum ligusticum* Marchetti, Bernardello, Melai &
Peruzzi
[G(W); Rocchetta di Vara, La Spezia, Liguria, Italy, 2020]
- XX-o-PI-2021-0091 *Liatris spicata* (L.) Willd.
[G; 2021]
- XX-o-PI-2020-0401 *Solidago canadensis* L.
[G; 2021]

BORAGINACEAE

- XX-o-PI-2020-0467 *Echium italicum* L.
[G; 2021]

BRASSICACEAE

- IT-o-PI-2020-2282 *Alyssoides utriculata* (L.) Medik. subsp. *utriculata*
[W; Sasso di Castro, Firenzuola, Firenze, Toscana, Italy, 1 September 2020]
- IT-o-PI-2020-2509 *Brassica incana* Ten.
[W; Mt. Sellaro, Cosenza, Calabria, Italy, 18 August 2019]
- XX-o-PI-2020-0396 *Isatis tinctoria* L.
[G; 2021]
- IT-o-PI-2020-2281 *Odontarrhena bertolonii* (Desv.) Jord. & Fourr. subsp.
bertolonii
[W; Corno al Bufalo, Monteverdi Marittimo, Pisa, Toscana, Italy, 2020]

CACTACEAE

XX-o-PI-2020-1874 *Neobuxbaumia polylopha* (DC.) Backeb.
[G; 2020]

CALYCANTHACEAE

XX-o-PI-2020-1945 *Chimonanthus praecox* (L.) Link
[G; 2018]

CAMPANULACEAE

IT-o-PI-2020-2290 *Campanula medium* L.
[G(Giardino Botanico Maria Ansaldo Pania di Corfino); 2020]

CAPPARACEAE

XX-o-PI-2020-1471 *Capparis spinosa* L.
[G; 2021]

CAPRIFOLIACEAE

IT-o-PI-2020-2285 *Cephalaria leucantha* Roem. & Schult.
[W, Frascineto, Cosenza, Calabria, Italy, 1 September 2020]

IT-o-PI-2021-0350 *Cephalaria syriaca* (L.) Roem. & Schult.
[W, Diga di Tarsia, Cosenza, Calabria, Italy, 22 August 2021]

XX-o-PI-2020-0370 *Lomelosia cretica* (L.) Greuter & Burdet
[G; 2020]

CARYOPHYLLACEAE

IT-o-PI-2021-0355 *Agrostemma githago* L. subsp. *githago*
[W; Tarsia, Cosenza, Calabria, Italy, 28 August 2021]

IT-o-PI-2021-0351 *Dianthus balbisii* Ser. subsp. *balbisii*
[W; Tarsia, Cosenza, Calabria, Italy, 17 August 2021]

IT-o-PI-2020-1764 *Dianthus seguieri* Vill.
[W; Pian della Fioba - Orto Botanico "Pellegrini-Ansaldo", 2020]

IT-o-PI-2020-2506 *Petrorhagia prolifera* (L.) P.W.Ball & Heywood
[W; Massaciuccoli, Lucca, Toscana, Italy, 6 July 2019]

IT-o-PI-2020-2288 *Saponaria officinalis* L.
[W; Fiume Crati, Tarsia, Cosenza, Calabria, Italy, 28 August 2020]

XX-o-PI-2020-1053 *Silene canescens* Ten.
[G; 2020]

CISTACEAE

IT-o-PI-2021-0353 *Cistus creticus* L. subsp. *creticus*
[W; San Marco Argentano Scalo, Cosenza, Calabria, Italy, 21 August 2021]

- XX-0-PI-2020-2023 ***Cistus creticus*** L. subsp. ***eriocephalus*** (Viv.) Greuter & Burdet
[G; 2019]
- IT-0-PI-2020-0732 ***Cistus laurifolius*** L. subsp. ***laurifolius***
[G(W); Santa Brigida, Pontassieve, Firenze, Toscana, Italy, 2021]
- IT-0-PI-2020-2090 ***Cistus monspeliensis*** L.
[W; San Giuliano Terme, Pisa, Toscana, Italy; 2019, 2020]
- IT-0-PI-2021-0354 ***Cistus salviifolius*** L.
[W; San Marco Argentano Scalo, Cosenza, Calabria, Italy, 21 August 2021]

COLCHICACEAE

- XX-0-PI-2021-0096 ***Gloriosa superba*** L.
[G; 2021]

FABACEAE

- XX-0-PI-2020-1318 ***Lablab purpureus*** (L.) Sweet
[G; 2019]
- IT-0-PI-2020-2484 ***Laburnum anagyroides*** Medik. subsp. ***anagyroides***
[W; Sassalbo, Massa-Carrara, Toscana, Italy, 9 November 2018]
- XX-0-PI-2020-0124 ***Lathyrus latifolius*** L.
[G; 2021]
- IT-0-PI-2020-2504 ***Lotus rectus*** L.
[W; Massaciuccoli, Lucca, Toscana, Italy, 6 July 2019]
- XX-0-PI-2020-2045 ***Medicago arborea*** L.
[G; 2019, 2020, 2021]
- IT-0-PI-2020-2505 ***Trifolium angustifolium*** L. subsp. ***angustifolium***
[W; Massaciuccoli, Lucca, Toscana, Italy, 6 July 2019]
- XX-0-PI-2020-1408 ***Trigonella officinalis*** (L.) Coulot & Rabaute
[G, 2020]

IRIDACEAE

- XX-0-PI-2020-0855 ***Chasmanthe floribunda*** (Salisb.) N.E.Br.
[G; 2020]
- XX-0-PI-2020-0916 ***Gladiolus italicus*** Mill.
[G; 2020]
- XX-0-PI-2020-0668 ***Hesperoxiphion huilense*** Ravenna
[G; 2021]
- IT-0-PI-2020-0915 ***Iris lutescens*** Lam.
[G(W); Le Capanne, San Giuliano Terme, Pisa, Toscana, Italy; 2020]
- XX-0-PI-2020-0745 ***Juno magnifica*** (Vved.) Vved.
[G; 2021]

XX-0-PI-2020-1521 *Limniris pseudacorus* (L.) Fuss
[G; 2019]

LAMIACEAE

XX-0-PI-2020-0473 *Origanum vulgare* L.
[G; 2020]

GR-0-PI-2021-0364 *Phlomis fruticosa* L.
[W; Island of Crete, Greece, 30 September 2021]

XX-0-PI-2020-0649 *Salvia amplexicaulis* Lam.
[G; 2019]

XX-0-PI-2020-0646 *Salvia argentea* L.
[G; 2017]

XX-0-PI-2020-0686 *Salvia aurita* L.f.
[G; 2021]

XX-0-PI-2020-0677 *Salvia canariensis* L.
[G; 2021]

XX-0-PI-2020-0615 *Salvia gesneriiflora* Lindl. & Paxton
[G; 2017]

XX-0-PI-2020-0694 *Salvia moorcroftiana* Wall. ex Benth.
[G; 2020]

XX-0-PI-2020-0653 *Salvia nemorosa* L.
[G; 2019]

IT-0-PI-2020-2287 *Salvia officinalis* L.
[G; 2020]

XX-0-PI-2020-0672 *Salvia pratensis* L.
[G; 2017]

XX-0-PI-2020-0679 *Salvia radula* Benth.
[G; 2019, 2020]

XX-0-PI-2020-2499 *Salvia roscida* Fernald
[G; 2017]

XX-0-PI-2020-2498 *Salvia spathacea* Greene
[G; 2020]

XX-0-PI-2020-0652 *Salvia verbenaca* L.
[G; 2021]

IT-0-PI-2020-2392 *Stachys germanica* L. subsp. *germanica*
[W; Pania di Corfino, Lucca, Toscana, Italy, 6 September 2020]

IT-0-PI-2020-2274 *Teucrium chamaedrys* L. subsp. *chamaedrys*
[W; Pania di Corfino, Lucca, Toscana, Italy, 1400 m, 15 August 2020]

IT-0-PI-2020-2490 *Teucrium flavum* L. subsp. *flavum*
[W; Asciano, Pisa, Toscana, Italy, 20 September 2019]

LILIACEAE

- XX-0-PI-2020-0771 *Lilium lancifolium* Thund.
[G; 2021]
- XX-0-PI-2020-0770 *Lilium regale* E.H.Wilson
[G; 2021]
- XX-0-PI-2020-2430 *Tulipa chusiana* Redouté
[G; 2021]
- XX-0-PI-2020-0970 *Tulipa sylvestris* L.
[G; 2021]

ONAGRACEAE

- IT-0-PI-2020-2394 *Epilobium hirsutum* L.
[W; Pian della Fioba, Massa-Carrara, Toscana, Italy, 13 September 2020]

ORCHIDACEAE

- XX-0-PI-2020-2121 *Bletilla striata* (Thunb.) Rchb.f.
[G; 2021]

PAEONIACEAE

- IT-0-PI-2020-2276 *Paeonia officinalis* L. subsp. *officinalis*
[G(Orto Botanico Maria Ansaldi Pania di Corfino); 2020]

PAPAVERACEAE

- IT-0-PI-2020-2275 *Glaucium flavum* Crantz
[W; Tropea, Vibo Valentia, Calabria, Italy, 23 August 2020]

PHYTOLACCACEAE

- BR-0-PI-2020-2515 *Gallesia integrifolia* (Spreng.) Harms
[W; Rio de Janeiro, Brazil, 2 February 2019]

PLANTAGINACEAE

- IT-0-PI-2020-2462 *Antirrhinum majus* L. subsp. *majus*
[G; 2019]
- IT-0-PI-2020-2393 *Digitalis lutea* L.
[W; Pania di Corfino, Lucca, Toscana, Italy, 1300 m, 6 September 2020]
- IT-0-PI-2020-2086 *Globularia bisnagarica* L.
[G; 2019]
- IT-0-PI-2020-2277 *Globularia incanescens* Viv.
[W; Pania di Corfino, Lucca, Toscana, Italy, 1400 m, 15 August 2020]

PLUMBAGINACEAE

- PT-0-PI-2021-0358 *Armeria pungens* (Link) Hoffmanns. & Link
[W; Praia de Bela Vista, Portugal, 11 August 2021; collected in the *locus classicus*]

POLYGALACEAE

- IT-0-PI-2020-2521 *Polygala flavescens* DC. subsp. *maremmana* (Fiori) Arrigoni
[W; Monte Argentario, Grosseto, Toscana, Italy, 6 May 2015]
- IT-0-PI-2020-2522 *Polygala flavescens* DC. subsp. *pisauensis* (Caldesi) Arcang.
[W; Fano, Pesaro e Urbino, Marche, Italy, 24 May 2015]

POLYGONACEAE

- IT-0-PI-2020-2289 *Rumex scutatus* L. subsp. *scutatus*
[W; Pania di Corfino, Lucca, Toscana, Italy, 1400 m, 15 August 2020]

RESEDACEAE

- IT-0-PI-2020-0391 *Reseda luteola* L.
[G; 2019]

ROSACEAE

- IT-0-PI-2020-2266 *Dryas octopetala* L. subsp. *octopetala*
[W; Mt. Sagro Alpi Apuane, Massa-Carrara, Toscana, Italy, July 2020]
- XX-0-PI-2020-1828 *Geum urbanum* L.
[G; 2021]
- IT-0-PI-2020-2503 *Malus florentina* (Zuccagni) C.K.Schneid.
[W; Brotalupi, Empoli, Firenze, Toscana, Italy, 28 November 2020]
- IT-0-PI-2020-2516 *Potentilla pedata* Willd. ex Hornem.
[W; Gabbro, Livorno, Toscana, Italy, 11 October 2019]
- IT-0-PI-2020-2278 *Prunus mahaleb* L. subsp. *mahaleb*
[W; Pania di Corfino, Lucca, Toscana, Italy, 1400 m, 15 August 2020]

RUBIACEAE

- XX-0-PI-2020-0383 *Rubia tinctorum* L.
[G; 2021]

RUTACEAE

- IT-0-PI-2020-2488 *Ruta chalepensis* L.
[W; Asciano, Pisa, Toscana, Italy, 20 September 2019]

SANTALACEAE

- IT-0-PI-2020-2511 *Osyris alba* L.
[W; Asciano, Pisa, Toscana, Italy, 20 September 2019]

SAXIFRAGACEAE

IT-o-PI-2020-2269 *Saxifraga paniculata* Mill.
[W; Libro Aperto, Modena, Emilia-Romagna, Italy, 6 August 2020]

SOLANACEAE

IT-o-PI-2020-0350 *Atropa bella-donna* L.
[G; 2019]

IT-o-PI-2020-0379 *Hyoscyamus albus* L.
[G; 2020]

Before the order - Important Notices

The responsibility for legal handling of the plant material listed below passes on from the supplier to the recipient upon receipt of the material. The following conditions apply:

1. By ordering seeds from our *Index Seminum* the recipient automatically accepts all requirements as stipulated by the *Convention on Biodiversity* (CBD, Rio Convention) and the *Nagoya Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization to the Convention on Biological Diversity*.
2. The material requested will be used only for public welfare, such as scientific research, species conservation by cultivation, and public education. In the case that scientific publications will be produced based on the supplied plant material, the recipient is obliged to indicate in those publications the origin of the material (the supplying garden and, if known, the country of origin). Even if not mandatory, we expect to be informed and receive an electronic copy of the publication itself.
3. The recipient may transfer the received plant material, its progeny or derivatives only for non-commercial use to bona fide third parties. Such transfer to third parties must be under the terms and conditions of this agreement, and must be documented in a suitable manner.
4. Seeds of CITES Appendix I species will be sent only to CITES-registered institutions, which for this purpose must send us their CITES-registration code together with their seed order. Otherwise, CITES I seeds will not be included in the seed delivery.
5. Only requests from other Botanic Gardens will be processed.

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Trigonella officinalis (L.) Coulot & Rabaute

Tulbaghia violacea Harv.

Tulipa chusiana Redouté

Tulipa sylvestris L.