



INDEX SEMINUM 2024

Jardim Botânico da
Universidade de Coimbra



JARDIM BOTÂNICO
UNIVERSIDADE DE COIMBRA

seminumsystem2025

Imagen de portada:

Cover image:

Semillas de Madeira (de arriba a abajo):

Seeds of Madeira (from top to bottom):

Juniperus cedrus subsp. *maderensis*

(Menezes) Rivas Mart., Capelo, J.C. Costa, Lousã, Fontinha, R. Jardim & M. Seq.

Laurus novocanariensis

Rivas-Mart., Lousa, Fern. Prieto, E. Días, J.C. Costa & C. Aguiar

Dracaena draco (L.) L. subsp. *draco*

Teline maderensis Webb & Berthel.

Oenanthe divaricata (R.Br.) Mabb.

Olga Baeta ©

Jardim Botânico da Madeira Engº. Rui Vieira

The **Botanic Garden of the University of Coimbra** was founded in 1772 on the initiative of the Marquis of Pombal during the educational reform of the University, that involved to a great extent, a transformation of the studies of natural sciences. The first plants arrived at the Botanic Garden in 1774, from the 'Real Jardim da Ajuda', and were received by Domenico Vandelli, the first director in Coimbra. The now called Central Square, was the first area of the Botanic Garden, which gathered over 3000 plants under Félix de Avelar Brotero's direction, between 1791 and 1807. It was only after 1814, following the French Invasions of Portugal, that the expansion of the Garden took place, and the different levels we currently know were built. The grand Greenhouse, long sought-after by many directors, received its first plants in 1865, and is still one of the most important infrastructures in the Botanic Garden.

The first *Index Seminum* was published in 1868, a landmark for the recognition of the Botanic Garden by its European counterparts.

Aims: The Botanic Garden of the University of Coimbra is a Cultural Extension and Training Support Unit of this higher education institution, and its missions are research, biodiversity conservation, education, and dissemination of science, with a special focus on raising awareness of the importance of plant diversity, climate change and the sustainable use of resources.

The Collections: Notable specimens include old *Eucalyptus*, epiphytic orchids from São Tomé and Príncipe and native plants from Portugal.

JARDIM BOTÂNICO

DA UNIVERSIDADE DE COIMBRA

Calçada Martim de Freitas

3000-456 Coimbra

PORTUGAL

Telephone: (+351) 239 855 215

Foundation: 1772

Area: 11.7 ha (28.9 ac)

Location: University of Coimbra, Campus I

Geographical location:

Latitude: 40.205779

Longitude: -8.421417

UTM: 29T

Altitude: 30–96 m a.s.l.

Climatic data*:

Mediterranean

Average temperature Annual: 16.96°C

Coldest month (average): 11.67°C

(December)

Lowest of the coldest month: 3.2°C

Hottest month (average): 22.29°C (July)

Highest of the hottest month: 39.0°C

Annual rainfall: 925.6 mm

Technical and Scientific Staff:

Director: M. Teresa Girão da Cruz

Curator: João Farminhão

Seed collectors: Agostinho Salgado

***Acknowledgements:** We thank Ricardo

Gafeira and Paulo Ribeiro for the 2024 climate data provided by the Geophysical and Astronomical Observatory of the University of Coimbra.

ACANTHACEAE

1. *Brillantaisia lamium* (Nees) Benth.
ST-0-COI-2016/00001

ALISMATACEAE

2. *Baldellia alpestris* (Coss.) Laínz
PT-0-COI-2024/00048
3. *Damasonium bourgaei* Coss.
PT-0-COI-2024/00047

AMARYLLIDACEAE

4. *Narcissus bulbocodium* L.
PT-0-COI-XXXX/00003
5. *Narcissus coronatus* subsp. *lusitanicus*
(Dorda & Fern.Casas) Agut & Urrutia
PT-0-COI-2023/00010
6. *Narcissus papyraceus* Ker Gawl.
PT-0-COI-XXXX/00008
7. *Narcissus willkommii* (Samp.) A.Fern.
PT-0-COI-XXXX/00004

APIACEAE

8. *Oenanthe fistulosa* L.
PT-0-COI-2024/00049
9. *Seseli peixotoanum* Samp.
PT-0-COI-2024/00026

ASPARAGACEAE

10. *Scilla monophyllos* Link
PT-0-COI-2023/00011

ASTERACEAE

11. *Andryala crithmifolia* subsp.
coronopifolia (Lowe) M.Z.Ferreira,
R.Jardim, Alv.Fern. & M.Seq.
PT-0-COI-2024/00040
12. *Anthemis arvensis* L.
PT-0-COI-2024/00007
13. *Avellara fistulosa* (Brot.) Blanca &
C.Díaz
PT-0-COI-2024/00010
14. *Calendula suffruticosa* subsp. *lusitanica*
(Boiss.) Ohle
PT-0-COI-2024/00001
15. *Catananche caerulea* L.
PT-0-COI-2023/00022

16. *Leucanthemopsis flaveola* (Hoffmanns.
& Link) Heywood
PT-0-COI-2023/00032
17. *Nidorella varia* (Webb) J.A.Schmidt
CV-0-COI-2024/00045
18. *Rhaponticoides africana* (Lam.)
M.V.Agab. & Greuter
PT-0-COI-2024/00054
19. *Santolina rosmarinifolia* L.
PT-0-COI-2023/00047
20. *Santolina semidentata* Hoffmanns. &
Link
PT-0-COI-2024/00032
21. *Tanacetum mucronulatum* (Hoffmanns.
& Link) Heywood
PT-0-COI-2023/00025

BRASSICACEAE

22. *Alyssum serpyllifolium*
subsp. *lusitanicum* Dudley & P. Silva
PT-0-COI-2024/00030
23. *Hesperis laciniata* All.
PT-0-COI-2024/00050

CAPRIFOLIACEAE

24. *Cephalaria leucantha* (L.) Roem. &
Schult.
PT-0-COI-2023/00050

CARYOPHYLLACEAE

25. *Dianthus laricifolius* Boss. & Reut.
subsp. *laricifolius*
PT-0-COI-2023/00033
26. *Dianthus nudiflorus* Griff.
PT-0-COI-2023/00021
27. *Petrorragia nanteuillii* (Burnat) P.W.Ball
& Heywood
PT-0-COI-2024/00022
28. *Silene longicilia* (Brot.) Otth
PT-0-COI-2024/00002

CYPERACEAE

29. *Carex oedipostyla* Duval-Jouve
PT-0-COI-2023/00036

FABACEAE

30. *Genista ancistrocarpa* Spach

PT-0-COI-2023/00058

31. *Lathyrus angulatus* L.

PT-0-COI-2024/00023

32. *Medicago doliata* Carmign.

PT-0-COI-2024/00006

33. *Ononis reclinata* L.

PT-0-COI-2023/00046

34. *Scorpiurus sulcatus* L.

PT-0-COI-2024/00005

35. *Vicia lathyroides* L.

PT-0-COI-2024/00024

IRIDACEAE

36. *Iris planifolia* (Mill.) T.Durand & Schinz

PT-0-COI-2022/00001

LAMIACEAE

37. *Lavandula pinnata* Lundmark

PT-0-COI-2024/00043

38. *Mentha pulegium* L.

PT-0-COI-2024/00051

39. *Thymus zygis* subsp. *sylvestris*
(Hoffmanns. & Link) Cout.

PT-0-COI-2023/00014

LINACEAE

40. *Linum trigynum* L.

PT-0-COI-2023/00045

MALVACEAE

41. *Ceiba crispiflora* (Kunth) Ravenna

BR-0-COI-XXXX/0001

42. *Ceiba speciosa* (A.St.-Hil., A.Juss. &
Cambess.) Ravenna

XX-0-COI-XXXX/00002

PLANTAGINACEAE

43. *Linaria diffusa* Hoffmanns. & Link

PT-0-COI-2024/00053

44. *Linaria amethystea* subsp.
multipunctata (Brot.) Chater & D.A.Webb

PT-0-COI-2023/00031

45. *Linaria amethystea* subsp.
multipunctata (Brot.) Chater & D.A.Webb

PT-0-COI-2024/00008

PLUMBAGINACEAE

46. *Armeria eriophylla* Willk.

PT-0-COI-2024/00029

47. *Armeria pseudarmeria* (Murray) Mansf.

PT-0-COI-2023/00037

48. *Armeria pungens* (Brot.) Hoffmanns. &
Link

PT-0-COI-2023/00038

POLYPODIACEAE

49. *Polypodium cambricum* L.

PT-0-COI-2023/00009

RANUNCULACEAE

50. *Anemone palmata* L.

PT-0-COI-2023/00023

51. *Aquilegia dichroa* Freyn

PT-0-COI-2024/00055

52. *Ranunculus gregarius* Brot.

PT-0-COI-2024/00057

ROSACEAE

53. *Geum sylvaticum* Pourr.

PT-0-COI-2023/00044

SCROPHULARIACEAE

54. *Verbascum capitis-viridis* Hub.-Mor.

CV-0-COI-2024/00046

SOLANACEAE

55. *Solanum trisectum* Dunal

PT-0-COI-2024/00041

In response to the **Convention on Biological Diversity-CBD** (Rio de Janeiro, 1992), our institution supplies seeds and other plant material only in accordance with the Code of Conduct for Botanic Gardens.

Additionally, our institution is member of **IPEN** (International Plant Exchange Network). The IPEN Code of Conduct with regards to seeds/plant exchange is applicable for non-commercial use only.

IPEN membership allows exchange with other IPEN members without bilateral agreement. So IPEN members may order seeds and other plant material either by email or by ordinary mail.

Only IPEN members may order by email.

For a list of current IPEN-members check the web-site of Botanic Gardens Conservation International (BGCI) at <http://botanischetuinutrecht.nl/data/ipenlist.php>.

Non-IPEN members can only order if the desiderata is accompanied by a signed and stamped agreement on the supply of living plant material for non-commercial purposes, therefore they cannot order by email.

The agreement must be signed by authorized staff when plant material will be used for botanical gardens, or by the head of the project or research line for scientific purposes.

The IPEN number consists of four elements, e.g. ES-0-ACR-954000070:

1. The 2-character country code is used to indicate the country of origin of the accession in case of wild collected plants, or plants of known wild origin (ISO 2-alpha, see https://en.wikipedia.org/wiki/ISO_3166-2, e.g. ES for Spain. XX is used for plants of non-wild origin).
2. 0 (or 1): if restrictions of transfer apply: "0"=NO, "1"=YES.
3. Acronym for the institution (see www.bgci.org/garden_search.php).
4. Accession number of the sample in our institution.

Si recibió semillas nuestras el último año le rogamos rellene los siguientes datos al enviar la presente petición. / If you requested seeds last year, please fill out the following data when you remit your Desiderata.

Semillas viables/ Viable seeds: ☐ Si / Yes ☐ No

Semillas destinadas a/ The seeds were for:

☐ Banco de Germoplasma / Germoplasm bank ☐ Colección de semillas / Seed collection
☐ Colección de planta viva / Lived plant collection ☐ Investigación / Research

Germinación /Germination:

☐ Si / Yes - % Germinación / Germination %
 - Tratamiento / Treatment
 - Nº plantas obtenidas / Nº of plants obtained
☐ No

Taxa:

Si no recibió parte del material solicitado, fue a causa del elevado número de peticiones / If part of material you requested was not enclosed, it is because it is not currently in stock due to the high number of petition this year.

Desiderata 2024

Por favor escriba el nº y nombre del taxon Please write the number and taxa

POR FAVOR ENVIAR A: Jardim Botânico da Universidade de Coimbra
PLEASE RETURN TO: Calçada Martim de Freitas
(antes de 1/04/2025) 3000-456 Coimbra
(before April 1st, 2025) PORTUGAL

Petitioners should check with their own authorities concerning import regulations and include any necessary permits with their order. The responsibility for legal handling of the plant material passes on to the recipient upon receipt of the material.

EORI CODE (Vat No/Tax ID):

Only IPEN members may order by email / Unicamente mienbros de IPEN pueden realizar pedidos por email (jardim.botanico@uc.pt)

☐ We are member of IPEN **IPEN code:**

Non-IPEN members must sign the commitment to fulfill the attached “Agreement on the Supply of Living Plant Material for Non-Commercial Purposes”. Our institution sends seeds and other plant material only after receiving this form, signed and stamped.

Nuestra institución acepta las condiciones que se detallan en el Acuerdo para el suministro de material vegetal vivo para fines no comerciales.

Our institution accepts the conditions detailed in the Agreement for the supply of living plant material for non-commercial purposes.

Date: Signature/Stamp:

Signed by:

E-mail:
DIRECCIÓN INSTITUCIONAL / INSTITUTIONAL ADDRESS:

Acuerdo para el suministro de material vegetal vivo para fines no comerciales

En el marco de las disposiciones y decisiones de la Convención sobre Diversidad Biológica (CBD, Río 1992) y, en particular, de su Protocolo de Nagoya sobre acceso a los recursos genéticos y participación justa y equitativa en los beneficios que se deriven de su utilización, el jardín está dedicado a promover la conservación, el uso sostenible y la investigación de la diversidad biológica. Por tanto, el jardín espera que sus socios en la adquisición, el mantenimiento y la transferencia de material vegetal actúen siempre de acuerdo con el CDB, el Protocolo de Nagoya y la Convención sobre el Comercio Internacional de Especies Amenazadas (CITES). La responsabilidad legal del manejo del material vegetal pasa a ser del receptor tras la recepción del mismo. El material vegetal solicitado será suministrado al destinatario sólo en las siguientes condiciones:

1. En base a este acuerdo, el material vegetal se suministra sólo para el uso no comercial, como puede ser el estudio científico o con fines educativos para la protección del medio ambiente. Si el receptor, en una fecha posterior, tiene la intención de un uso comercial o una transferencia del mismo para su uso comercial, se debe obtener por escrito el informe de consentimiento previo del país de origen (PIC) antes de que el material sea usado o transferido. El receptor es responsable de asegurar un reparto equitativo de los beneficios.
2. Al recibir el material vegetal, el receptor debe esforzarse en documentar el material recibido, su origen (país de origen, primer jardín receptor, "donante" del material vegetal, año de colección), así como las condiciones de adquisición y transferencia de manera comprensible.
3. En el caso de que se produzcan publicaciones científicas en base al material vegetal proporcionado, el receptor está obligado a indicar el origen del material (jardín de suministro y si se conoce, el país de origen) y a enviar estas publicaciones al jardín y al país de origen sin petición previa.
4. A petición, el jardín remitirá la información pertinente sobre la transferencia del material vegetal al organismo encargado de la aplicación del CDB.
5. El receptor puede transferir el material vegetal recibido a terceras partes sólo bajo estos términos y condiciones, y debe documentar la transferencia de una manera adecuada (por ejemplo, mediante el formulario de documentación, como figura en el Anexo 1.3).

Agreement on the Supply of Living Plant Material for Non-Commercial Purposes

Against the background of the provisions and decisions of the Convention on Biological Diversity (CBD, Rio 1992) and in particular those of its Nagoya Protocol on access to genetic resources and the fair and equitable sharing of benefits arising from their utilization, the garden is dedicated to promoting the conservation, sustainable use and research of biological diversity. The garden therefore expects its partners in acquiring, maintaining and transferring plant material to always act in accordance with the CBD, the Nagoya Protocol and the Convention on the International Trade in Endangered Species (CITES). The responsibility for legal handling of the plant material passes on the recipient upon receipt of the material. The requested plant material will be supplied to the recipient only on the following conditions:

1. Based on this agreement, the plant material is supplied only for non-commercial use such as scientific study and educational purposes as well as environmental protection. Should the recipient at a later date intend a commercial use or a transfer for commercial use, the country of origin's prior informed consent (PIC) must be obtained in writing before the material is used or transferred. The recipient is responsible for ensuring an equitable sharing of benefits.
2. On receiving the plant material, the recipient endeavours to document the received plant material, its origin (country of origin, first receiving garden, "donor" of the plant material, year of collection) as well as the acquisition and transfer conditions in a comprehensible manner.
3. In the event that scientific publications are produced based on the supplied plant material, the recipient is obliged to indicate the origin of the material (the supplying garden and if known the country of origin) and to send these publications to the garden and to the country of origin without request.
4. On request, the garden will forward relevant information on the transfer of the plant material to the body charged with implementing the CBD³.
5. The recipient may transfer the received plant material to third parties only under these terms and conditions and must document the transfer in a suitable manner (e.g. by using the documentation form, such as provided in Annex 1.3).



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