

RECORDS

Abies nebrodensis* (Lojac.) Mattei*PINACEAE**

Status: E**Distribution:** Sicily**Researcher:** -**Institution:** Royal Botanic Gardens Edinburgh**Address:** Edinburgh, EH3 5LR, Scotland, Great Britain**Area of study:** * Propagation methods

* Culture techniques

Bibliography:

Arena, M. (1959) Alcune notizie sul comportamento biologico di *Abies nebrodensis* (Lojac.) Mattei. *Nuovo Giorn. Bot. Ital.* 66:451-456.

Chiarugi, A. (1941) Per la protezione dell'*Abies nebrodensis* Mattei. *Nuovo Giorn. Bot. Ital.* 48:668-669.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Covassi, M. and Binazzi, A. (1985) Primi reperti su alcuni fitomizi dell'*Abies nebrodensis* (Lojac.) Mattei in Sicilia (Homoptera). *Atti XIV Congresso Nazionale Italiano di Entomologia*. Accademia Nazionale Italiana di Entomologia, Società Entomologica Italiana and International Union of Biological Sciences. pp. 81-86.

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Geraci, L. (1979) Nuovi reperti di *Abies nebrodensis* (Lojac.) Mattei rinvenuti nelle Madonie nella zona di indigenato. *Naturalista Sicil.* 3:45-51.

Gramuglio, G. (1962) Risveglio sessuale di *Abies nebrodensis*. *Nuovo Giorn. Bot. It.* 69:207-212.

Grilli Caiola, M. (1992) Gli Orti Botanici. *L'Uomo e l'Ambiente* 14:152-161.

Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 1. Tip. Savini-Mercuri, Camerino (scheda 19-5 Monte Scalone e Vallone Madonna degli Angeli).

Kral, F. and Mayer, H. (1993) Postglacial origin and structure of fir forests in Europe. In: C. Brombacher, S. Jacomet and J.N. Haas (eds.) *Dissertationes Botanicae*, Vol. 196. Berlin. pp. 305-315.

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- Morandini, R. (1969) *Abies nebrodensis* (Lojac.) Mattei. Inventario 1968. *Pubbl. Ist. Sper. Selvicolt. Arezzo* 18:1-93.
- Raimondo, F.M. (1984) On the natural history of the Madonie Mountains. *Webbia* 38:29-61.
- Raimondo, F.M. Venturella, G. and Di Gangi, F. (1990) Variazioni fenotipiche in *Abies nebrodensis* (Lojac.) Mattei e comportamento vegetativo nella sua discendenza. *Quad. Bot. Ambientale Appl.* 1:183-210.
- Senni, L. (1941) Per la protezione degli ultimi esemplari superstiti dell'*Abies nebrodensis* in Sicilia. *Nuovo Giorn. Bot. Ital.* 48:667-668.
- Uotila, P. (1984) *Abies nebrodensis*. *Sorbifolia* 15:35-39.

Abies pinsapo Boiss.**PINACEAE**

Status: V**Distribution:** Spain**Researcher:** J. Herrera, S. Talavera, M. Arista**Institution:** Dept. de Biología Vegetal y Ecología
Universidad de Sevilla**Address:** Apartado 1095
E-41080 Sevilla Spain**Area of study:**

- * Germination, dormancy
- * Flowering, fruit development, pollination
- * Reproduction
- * Dispersal
- * Phenology
- * Demography, population dynamics
- * Ecology

Current research:Reproductive biology of *Abies pinsapo*.**Bibliography:**Arista, M. Talavera, S. and Herrera, J. (1992) Viabilidad y germinación de las semillas de *Abies pinsapo* Boiss. *Acta Botánica Malacitana* 17:223-228.

Acanthorrhinum rivas-martinezii* (Schez.-Mata) Fdez.-Casas & Schez.-Mata*SCROPHULARIACEAE**

Status: V**Distribution:** Spain**Researcher:** D. Sánchez-Mata**Institution:** Dpto. Biología Vegetal II (Botánica)
Facultad de Farmacia, Universidad Complutense**Address:** E-28040 Madrid, Spain**Phone:** 34 1 5821769 / 5821770**Area of study:**

- * Anatomy
- * Genetics
- * Flowering, pollination, fruit development
- * Phenology
- * Demography, population dynamics
- * Ecology

Current research:

Taxonomy, propagation methods, growth and development.

Bibliography:

Fernández-Casas, J. and Sánchez-Mata, D. (1989) *Acanthorrhinum rivas-martinezii* (Sánchez Mata) Fernández Casas & Sánchez Mata, *comb. nov.* In: J. Fernández Casas (ed.) Asientos para una Flora Occidental, 9. *Fontqueria* 20: 63.

Sánchez-Mata, D. (1988) *Misopates rivas-martinezii* (Scrophulariaceae), nueva especie del Sistema Central (España). *Candollea* 43: 261-272.

Achillea taygetea Boiss. & Heldr.

ASTERACEAE

Status: R
Distribution: Greece

Researcher: C. Vander Mey
Institution: Chicago Botanic Garden
Address: Glencoe, USA

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Adonis cyllenea Boiss., Heldr. & Orph in Boiss.

RANUNCULACEAE

Status: E

Distribution: Greece

Researcher: A. Strid

Institution: Botanical Laboratory, University of Copenhagen

Address: 140 Gothersgade
DK-1123 Copenhagen

Area of study: * Culture techniques

* Distribution

Bibliography:

Strid, A. (1986) *Adonis cyllenea* (Ranunculaceae) and *Helichrysum taenari* (Asteraceae) rediscovered in Peloponnesus Greece. *Ann. Mus. Goulandris* 7:221-232.

Aeonium gomeraense* (Praeger) Praeger*CRASSULACEAE**

Status: V
Distribution: Canary Islands

Researcher: A. Bañares and J. Real
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Flowering, pollination, fruit development
* Propagation methods
* Phenology
* Demography, population dynamics
* Ecology
* Biotic interactions
* Reintroduction

Current research:

Genetic recovery of the endangered flora of P. N. of Garajonay.

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Ho-Yi, Liu (1989) Systematics of *Aeonium* (Crassulaceae) *National Museum of Natural Science, Sp. Pub.* 3:1-102.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Praeger, L. (1932) *An account of the Sempervivum group*. The Royal Horticultural Society. London. 265 pp.

Aichryson pachycaulon* Bolle*CRASSULACEAE**

Status: R
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
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Area of study: * Micropropagation

Bibliography:

None

Aichryson palmense Webb ex Bolle**CRASSULACEAE**

Status: R
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Area of study: * Culture techniques

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Praeger, O. (1929) Semperviva of the Canary Islands area. In *Proceed. Royal Irish Acad.*, vol. XXXVIII sect. B n° 15: 454-499.

Praeger, R.L. (1932) *An account of the Sempervivum group*. The Royal Horticultural Society. London.

Santos, A. (1983) *Vegetación y Flora de La Palma*. Ed. Interinsular Canaria.

Aichryson porphyrogennetos Bolle**CRASSULACEAE**

Status: R
Distribution: Canary Islands

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Area of study: * Micropropagation

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Area of study: * Culture techniques

Bibliography:

Bañares, A. (1990) Híbridos de la familia Crassulaceae en las Islas Canarias. Novedades y datos corológicos. II. *Vieraea* 18: 65-85.

Bramwell, D. (1968) Notes on the taxonomy and nomenclature of the genus *Aichryson*. *Bol. Inst. Nac. Invest. Agron.* 59 (431): 203-213.

Burchard, O. (1929) Beiträge zur Ökologie und Biologie der kanarenpflanzen. *Bibl. Bot.* 98.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Praeger, O. (1929) Semperviva of the Canary Islands area. In *Proceed. Royal Irish Acad.*, vol. XXXVIII sect. B n° 15: 454-499.

Praeger, R.L. (1932) *An account of the Sempervivum group*. The Royal Horticultural Society. London.

Allium pyrenaicum Costa y Vayreda**LILIACEAE**

Status: R
Distribution: Spain

Researcher: J. Pedrola and J. Caujape
Institution: Est. Inter. Biol. Mediterranea
Address: Jardín Botánico "Marimurtra"
E-17300 Blanes, Girona, Spain
Phone: 34 72 330826

Area of study: * Genetics

Current research:

Genetic structure of an endemism from the Pyrenees: *Allium pyrenaicum*

Bibliography:

Bou, J. (1987) *Allium pyrenaicum* Costa y Vayreda (Liliaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 54-55.

Costa, A.C. (1877) *Introducción a la flora de Cataluña y catálogo razonado de las plantas observadas en esta región*. Imp. Diario de Barcelona. Ed.2, suppl. 92 pp.

Pastor, J. and Valdés, B. (1982) *Revisión del género Allium (Liliaceae) en la Península Ibérica e Islas Baleares*. Anal. Univ. Hispalense, Sevilla. 179 pp.

Ammi huntii* H.C. Watson*APIACEAE**

Status: R
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
 Dpto. de Botânica e Engenharia Biológica
 Instituto Superior de Agronomia
Address: Tapada da Ajuda
 P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Area of study: * Culture techniques

Researcher: G.B. Maciel
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 P-9502 Ponta Delgada Codex, Portugal

Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago* 5:197-205.

Hansen, A. and Sundig, P. (1985) Flora of macaronesia, Checklist of vascular plants. *Sommerfeltia* 1.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IV reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora des Ilhas Atlânticas*, Madeira.

Anagyris latifolia Brouss. ex Willd.**FABACEAE**

Status: V
Distribution: Canary Islands
Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
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Area of study: * Culture techniques

Researcher: J.A. Rodríguez et al.
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Fax: 34 22 383572

Area of study: * Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Peréz, P.L., (1975) El género *Anagyris* en las Islas Canarias. *Vieraea* 4 (1-2):164-172.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Santos, A., (1983) *Vegetación y flora de La Palma*. Ed. Interinsular Canaria. Santa Cruz de Tenerife.

Anchusa crispa Viv.**BORAGINACEAE**

Status: V
Distribution: Corsica, Sardinia

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
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Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques
* Reintroduction

Researcher: C. Fawer
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Area of study: * Culture techniques

Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Gardini, S. (1984) *Flora da Proteggere, Indagine su Alcune Specie Vegetali Minacciate o Rare in Italia*. Errepiesse, Pavia.

Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 1. Tip. Savini-Mercuri, Camerino (scheda 20-16 Porto Palmas).

Jeanmonod, D. and Burdet, H.M. (1988) Notes and contributions of Corsican flora III. *Candollea* 43 (1):335-408.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Paradis, G. (1990) Description of the vegetation at an *Anchusa crispa* Viv. site on the eastern coast of Corsica France west of Cannella Bay. *Doc. Phytosociol.* 12 (0):189-202.

Thiebaud, M.A. (1988) Contribution à la connaissance de l'*Anchusa crispa* Viv. en Corse. *Candollea* 43:390-396.

Valsecchi, F. (1976) Il genere *Anchusa* in Sardegna. *Webbia* 30:43-68.

Valsecchi, F. (1980) Le piante endemiche della Sardegna: 80-83. *Boll. Soc. Sarda Sci. Nat.* 19:323-342.

Androcymbium europaeum* (Lange) K. Richter*LILIACEAE**

Status: V
Distribution: Spain

Researcher: J. Y. Lesouef *et al.*
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Area of study: * Culture techniques

Researcher: J. Pedrola and J. Caujape
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Address: Jardín Botánico "Marimurtra"
 E-17300 Blanes, Girona, Spain
Phone: 34 72 330826

Area of study: * Genetics

Current research:

Spatial distribution, genetic structure and other biological data of a narrow endemism:
Androcymbium europaeum.

Researcher: D. Rivera, M. Moliner, F.A. Tomas-Barberán, I. Paterna, M.J. Nicolás, C. Marín, J.A. Sánchez and M.A. Morte
Institution: Dpto. Biología Vegetal (Botánica)
 Facultad de Biología
 Universidad de Murcia
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Fax: 34 68 835418

Area of study: * Metabolism, enzymes
 * Germination, dormancy
 * Flowering, fruit development, pollination
 * Dispersal
 * Propagation methods
 * Micropropagation
 * Culture techniques
 * Phenology
 * Demography, population dynamics
 * Ecology

Bibliography:

Alcaraz, F. *et al.* (1987) *Androcymbium europaeum* (Lange) K. Richter (Liliaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 62-63.

Bellot, F. (1965) Sobre el *Androcymbium gramineum* (Cav.) Mc. Bride var. *genuinum* Maire. Tres formas españolas. *Anal. Inst. Bot. Cavanilles* 6:439-445.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Losa España, T.M. and Rivas Goday, S. (1968) Estudio florístico y geobotánico de la provincia de Almería I. *Arch. Inst. Aclimat.*, Almería 3:1-111.

Montserrat, P. (1961) Contribución al conocimiento de los pastos almerienses. *Arch. Inst. Aclimat.*, Almería 10:17-31.

Morte, M.A. Paterna, I. Nicolás, M.J. and Moliner, M. (1992) Establecimiento y propagación *in vitro* de *Androcymbium europaeum* (Lange) K. Richter. *Congreso Internacional ETNOBOTANICA* 92, Córdoba.

Sánchez, J.A. Marín, C. Moliner, M. and Tomás-Barberán, F.A. (1992) Cuantificación y variación de colchicina en plantas de *Androcymbium europaeum* predadas por herbívoros. *Congreso ETNOBOTANICA* 92, Córdoba.

Androcymbium rechingeri Greuter**LILIACEAE**

Status:	I
Distribution:	Crete
Researcher:	W. Greuter
Institution:	Botanischer Garten und Botanisches Museum Berlin-Dahlem
Address:	Königin-Luise-Str. 6-8 D-14191 Berlin, Germany
Area of study:	* Genetics * Germination, dormancy * Growth, development * Reproduction * Propagation methods
Bibliography:	
	None

Antirrhinum charidemi Lange**SCROPHULARIACEAE**

Status: V
Distribution: Spain

Researcher: E. Hernández, P. Contreras and A. Pujadas
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
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Area of study: * Propagation methods
* Culture techniques
* Conservation
* Distribution

Current research:

Cartography of the populations, estimation of variability, germplasm collection and preservation, development of *ex situ* populations, application of culture techniques. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

- Clemente, M. (1991) The micropropagation unit at the Córdoba Botanic Garden, Spain. *Botanic Gardens Micropropagation News* 1(3):30-32.
- Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.
- Molero, J. Martínez Parras, J.M. Alcaraz Ariza, F. Garre Belmonte, M. and Peinado Lorca, M. (1987) *Antirrhinum charidemi* Lange (Scrophulariaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 68-69.

Antirrhinum microphyllum* Roth.*SCROPHULARIACEAE**

Status: V
Distribution: Spain

Researcher: E. González-Benito and F. Pérez-García
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica
Address: Ciudad Universitaria
E-28040 Madrid
Phone: 34 1 336 5657
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Area of study: * Germination
* Micropropagation

Bibliography:

- Fernández-Casas, J. (1974) Notas fitosociológicas breves III. *Cuad. C. Biol.*, 3:91-95.
- Rothmaler, W. (1956) Taxonomische Monographie der Gattung *Antirrhinum*. *Feddes Repert. (beih)*, 136:1-124.

Antirrhinum pertegasii* Rothm.*SCROPHULARIACEAE**

- Status:** V
Distribution: Spain
- Researcher:** L. Navarro *et al.*
Institution: Dpto. de Cultivo de Tejidos Vegetales, Instituto Valenciano de Investigaciones Agrarias.
Address: Moncada, Valencia, Spain
- Area of study:** * Micropropagation
- Researcher:** I. Queral
Institution: Independent
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 E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489
- Area of study:** * Growth, development
 * Demography, population dynamics
 * Ecology

Current research:

Threatened endemisms of Els Ports de Tortosa-Beseit.

Bibliography:

- Bolós, O. de (1967) Comunidades vegetales de las comarcas próximas al litoral situadas entre los ríos Llobregat y Segura. *Mem. Real. Acad. Cienc. Art. Barcelona* 38:1-279.
- Cañigüeral, J. (1956) El río Cenia. *Ibérica*, núms. 346-353.
- Font Quer, P. (1917) Vuit dies d'excursió botànica als Ports de Tortosa. *Publ. Junta Cienc. Naturals* 2:619-632.
- Pau, C. (1918) Una explotació botànica als Ports de Beceit. *Comun. verbal Butll. Inst. Cat. d'Historia Natural* 18:76-77.
- Queral, I. (1987) *Antirrhinum pertegasii* Rothm. (Scrophulariaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 76-77.

Apium bermejoi* Llorens*APIACEAE**

- Status:** E
Distribution: Balearic Islands
- Researcher:** A. Ibars
Institution: Dpto. Biología Vegetal
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- Area of study:** * Anatomy
- Researcher:** J.P. Reduron
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- Area of study:** * Propagation methods
* Culture techniques
- Researcher:** J.A. Rosselló
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Fax: 34 57 295333
- Area of study:** * Anatomy

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Ibars, A. and Rosselló, J.A. (1990) Características histológicas de endemismos baleáricos. 1. Umbelíferas. *II Jornadas de Taxonomía Vegetal*, Madrid.

Llorens, L. (1987) *Apium bermejoi* Llorens (Apiaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 80-81.

Aquilegia bertolonii Schott**RANUNCULACEAE**

Status: V
Distribution: France, Italy
Researcher: G. Pistolesi
Institution: Istituto ed Orto Botanico della Università
Address: Pisa, Italy
Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Aquilegia cazortensis Heywood**RANUNCULACEAE**

Status: E
Distribution: Spain

Researcher: M. Clemente, P. Contreras and J. Prados
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
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Area of study: * Micropropagation
* Culture techniques
* Conservation

Current research:

Estimation of variability, germplasm collection and preservation, development of *ex situ* populations, application of culture techniques. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Area of study: * Culture techniques

Bibliography:

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- Herranz, J.M. and Hernández-Bermejo, J.E. (1987) *Aquilegia cazortensis* Heywood (Ranunculaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales*

Amenazadas de España Peninsular e Islas Baleares. ICONA, Madrid. pp. 84-85.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Aquilegia champagnatii* Moraldo, Nardi et La Valva*RANUNCULACEAE**

Status: R
Distribution: Italy

Researcher: B. Moraldo, E. Nardi and V. La Valva
Institution: Dip. Biol. Vegetale
Address: via Foria 223
I-80139 Napoli, Italy
Phone: 39 81 440681
Fax: 39 81 450165

Area of study: * Ecology
* Distribution

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

La Valva, V. Ricciardi, M. Caputo, G. and Nazzaro, R. La flora della Penisola Sorrentina. *Delpinoa* (in press).

Moraldo, B. La Valva, V. Ricciardi, M. and Caputo, G. (1984) La flora dei Monti Picentini (Campania). *Pars prima: Selaginellaceae- Umbelliferae. Delpinoa* n.s., 23-24:203-291.

Moraldo, B. Nardi E. and La Valva, V. (1981) *Aquilegia champagnatii* sp. nov. (*Ranunculaceae*) nell'Appennino campano. *Webbia* 35(1):83-86.

Ricciardi, M. Aprile, G.G. and Sifola, M.I. (1987) Cartografia floristica della Campania (Primo contributo). *Ann. Bot. (Roma)*, 45(5):65-78.

Aquilegia litardierei* Briq.*RANUNCULACEAE**

Status: V
Distribution: Corsica

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

None

Arbutus canariensis* Veillard ex Duhamel*ERICACEAE**

Status: V
Distribution: Canary Islands
Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Micropropagation

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Delgado, J.C. (1986) *Propagación de árboles canarios*. Exmo. Cabildo Insular de Gran Canaria.

Arenaria rigida Bieb.**CARYOPHYLLACEAE**

Status: R
Distribution: Bulgaria, Romania
Researcher: A. Petrova
Institution: Botanical Garden
Bulgarian Academy of Sciences
Address: P.O. Box 664
1000 Sofia, Bulgaria
Area of study: * Demography, population dynamics
* Distribution

Bibliography:

Petrova, A. (1993) Rare plants in "Pobiti Kamani" protected areas in Northeastern Bulgaria. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Argyranthemum hierrense* Humphries*ASTERACEAE**

Status: V
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Armeria soleirolii* (Duby) Godron*PLUMBAGINACEAE**

Status: E
Distribution: Corsica

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: L. Olivier *et al.*
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Fax: 33 94 658483

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Artemisia granatensis Boiss.

ASTERACEAE

Status: E
Distribution: Spain
Researcher: M. Clemente, P. Contreras, M.A. Gardía and E. Hernández
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
 E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333
Area of study: * Propagation methods
 * Micropropagation
 * Conservation

Current research:

Cartography of the populations, estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

- Blanca, G. Salinas, M.J. Díaz de la Guardia, C. and Romero-García, A. (1991) *Fragmenta palynologica baetica* palynologic studies of the subfamily Asteroideae Compositae in the southeast of the Iberian Peninsula. *Acta. Bot. Malacitana* 16 (2):491-500.
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- Font Quer, P. (1924) Datos acerca de la flora orófila de Sierra Nevada. *Bol. Real Soc. Esp. Hist. Nat.* 24:238-244.
- Gómez-Campo, C. (1992) Problems of genetic erosion and conservation of aromatic and medicinal plants. In: *I. Jornadas Ibéricas de Plantas Medicinales, Aromáticas y*

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Hernández-Bermejo, E. Clemente, M. *et al.* (1994) Protección de la Flora en Andalucía. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Losa Quintana, J.M. and Giménez, M.A. (1986) Especies medicinales endémicas de Sierra Nevada. *ARS-Pharmaceutica*. 27:381-386.

Martínez Parras, J.M. Molero Mesa, J. and Esteve Chueca, F. (1980) Notas sobre la flora de la provincia de Granada. *Lagascalia* 9:51-64.

Molero, J. Martínez-Parras, J.M. and Pérez-Raya, F. (1987) *Artemisia granatensis* Boiss. (Asteraceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 114-115.

Prieto, P. (1968) Las plantas medicinales de la zona cacuminal de Sierra Nevada y su venta en las oficinas de farmacia más altas de Europa. *Pharm. Medit.* 8:455-460.

Sainz-Ollero, H. and Hernández-Bermejo, J.E. (1979) Experimental reintroductions of endangered plant species in their natural habitats in Spain. *Biol. Conserv.* 16(3):195-206.

Artemisia pancicii* (Janka) Ronn.*ASTERACEAE**

Status: V
Distribution: Austria, Czechoslovakia, Yugoslavia

Researcher: V. Stevanovic, I. Spasic and S. Pavic
Institution: Institute of Botany and Botanical Garden
Faculty of Biology
Address: University of Belgrade, Yugoslavia

Area of study: * Distribution

Bibliography:

Stevanovic, V. and Spasic, I. (1993) The endemic flora of Serbia: Diversity and endangering. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Asphodelus bento-rainhae P. Silva**LILIACEAE**

- Status:** R
Distribution: Portugal
- Researcher:** Z. Díaz Lifante
Institution: Dpto. Biología Vegetal y Ecología
Facultad de Biología, Universidad de Sevilla.
Address: Avda. Reina Mercedes s/n
E-41080 Sevilla, Spain
- Area of study:**
- * Anatomy
 - * Germination, dormancy
 - * Growth, development
 - * Flowering, fruit development, pollination
 - * Reproduction
 - * Morphology
 - * Palinology
 - * Karyology

Bibliography:

Díaz Lifante, Z., Díez, M.J. and Fernández, I. (1990) Morfología polínica de las subfamilias *Melacthioideae* y *Asphodeloideae* (*Liliaceae*) en la Península Ibérica y su importancia taxonómica. *Lagascalia* 16:211-216.

Asphodelus gracilis Br.- Bl. & Maire**LILIACEAE**

Status: R**Distribution:** Morocco**Researcher:** Z. Díaz Lifante**Institution:** Dpto. Biología Vegetal y Ecología
Facultad de Biología, Universidad de Sevilla.**Address:** Avda. Reina Mercedes s/n
E-41080 Sevilla, Spain**Area of study:**

- * Growth, development
- * Flowering, fruit development, pollination
- * Reproduction
- * Morphology
- * Palynology
- * Karyology

Bibliography:

Díaz Lifante, Z. (1992) Karyological studies in *Asphodelaceae* (Liliaceae). I. Chromosome numbers of *Asphodelus* and *Anthericum* from North Africa. *Willdenowia* 22.

Asphodelus roseus* Humbert & Maire*LILIACEAE**

Status: R**Distribution:** Spain**Researcher:** Z. Díaz Lifante**Institution:** Dpto. Biología Vegetal y Ecología
Facultad de Biología, Universidad de Sevilla.**Address:** Avda. Reina Mercedes s/n
E-41080 Sevilla, Spain**Area of study:**

- * Germination, dormancy
- * Growth, development
- * Flowering, fruit development, pollination
- * Reproduction
- * Morphology
- * Palinology
- * Karyology

Bibliography:

Díaz Lifante, Z. (1990) *Asphodelus roseus* Humbert & Maire, nuevo para la Península Ibérica. *Lagascclia* 16 (1): 123-125.

Díaz Lifante, Z. (1992) Karyological studies in *Asphodelaceae* (Liliaceae). I. Chromosome numbers of *Asphodelus* and *Anthericum* from North Africa. *Willdenowia* 22.

Astragalus centralpinus* Braun Blanquet*FABACEAE**

Status: V
Distribution: Bulgaria, France, Italy
Researcher: S. Gardini Peccenini
Institution: Institute Botanico "Hanbury"
Address: Università-Corso Dogali, 1/C
Genova, Italy

Area of study: * Ecology
* Distribution

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Pampanini, R. (1907) *Astragalus alopecuroides* L. em. Pampanini. *Giorn. Bot. Ital.* (n.s.) 14:327.

Peyronel, B. (1964) Notizie sulle piante rare o critiche della Val di Cogne (Gran Paradiso) III. *Giorn. Bot. Ital.* 71:691.

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Vaccari, L. (1904) L'*Astragalus alopecuroides* L. in Val d'Aosta. Una nuova stazione nella Valtornenche. *Bull. Soc. Bot. Ital.* 1904:378.

Astragalus dasyanthus* Pall.*FABACEAE**

Status: V
Distribution Bulgaria, Hungary, Romania, Yugoslavia

Researcher: D. Pavlova
Institution: University of Sofia
Biological Faculty, Dept. of Botany
Address: buld. Dr. Tzankov 8
1421 Sofia, Bulgaria

Area of study: * Genetics
* Palinology

Bibliography:

Pavlova, D. (1988) Karyological study of several species from g. *Astragalus* L. Comptes rendus *Acad. Bull. Sci.* 41:67-69.

Pavlova, D. *et al.* Pollen morphology of the Bulgarian species from *Astragalus* L. (Fabaceae) subg. *Hypoglottis* Bge., *Phaca* (L.) Bge., *Astragalus*, *Cercidothrix* Bge., *Calycocyttis* Bge. *God. Sof. Univ., Biol. Fac.* (in press).

Astragalus wilmottianus Stoj.**FABACEAE**

Status: R
Distribution Bulgaria

Researcher: D. Pavlova
Institution: University of Sofia
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Department of Botany
Address: buld. Dr. Tzankov 8
1421 Sofia, Bulgaria

Area of study: * Genetics
* Palinology

Bibliography:

Pavlova, D. (1988) Karyological study of several species from g. *Astragalus* L. Comptes rendus *Acad. Bull. Sci.* 41:67-69.

Pavlova, D. *et al.* Pollen morphology of the Bulgarian species from *Astragalus* L. (Fabaceae) subg. *Hypoglottis* Bge., *Phaca* (L.) Bge., *Astragalus*, *Cercidothrix* Bge., *Calycocystis* Bge. *God. Sof. Univ., Biol. Fac.* (in press).

Atractylis arbuscula Svent. & Mich.

ASTERACEAE

Status: E
Distribution Canary Islands
Researcher: M.F. Fay *et al.* (in liason with D. Bramwell *et al.* (Las Palmas)
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Current research:

Ongoing micropropagation

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

González, C., Rubio, A. and Ortega, C.I. (1989) Propagación *in vitro* de endemismos canarios en peligro de extinción: *Atractylis arbuscula* Svent. et Michaelis. *Bot. Macar.* 17.

Kunkel, G. (1982) *Los riscos de Famara (Lanzarote, Islas Canarias). Breve descripción y guía florística*. Naturalia Hispanica n 22. I.C.O.N.A., Madrid.

Maya, P. and Ponce, M. (1989) Algunos datos sobre la interacción entre luz y temperatura en la germinación de algunas especies de Asteraceas endémicas de Canarias. *Bot. Macar.* 17.

Sventenius, E. (1968) *Plantae Macaronesienses Nova Vel Minus Cognitae I*. Santa Cruz de Tenerife.

Atractylis preauxiana* Schultz Bip.*ASTERACEAE**

Status:	E
Distribution	Canary Islands
Researcher:	J.A. Rodríguez et al.
Institution:	Jardín de Aclimatación de la Orotava, CITA
Address:	Puerto de la Cruz E-38400 Tenerife, Spain
Fax:	34 22 383572
Area of study:	* Culture techniques * Germination, dormancy

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Atropa baetica* Willk.*SOLANACEAE**

Status: E
Distribution Spain

Researcher: E. Hernández, J. Prados and A. Lora
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Propagation methods
* Conservation

Current research:

Estimation of variability, germplasm collection and preservation, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) Protección de la Flora en Andalucía. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Azorina vidalii* (H.C. Watson) Feer*CAMPANULACEAE**

Status: V
Distribution Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: G.B. Maciel
Institution: Universidade dos Açores, Dpto. de Biologia
Address: Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal

Area of study: * Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, H.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe rencontre internationale sur les semences*, Angers (France).

Barbarea sicula* Presl*BRASSICACEAE**

Status: V
Distribution: Italy, Sicily

Researcher: F.M. Raimondo
Institution: Dipartimento di Scienze Botaniche
Address: Via Archirafi 38
I-90123 Palermo, Italy
Phone: 39 91 6161493

Area of study: * Autecology
* Distribution
* *Ex situ* and *in situ* conservation

Bibliography:

None

Bassia saxicola (Guss.) A.J. Schott

CHENOPODIACEAE

Status: E
Distribution: Italy, Sicily

Researcher: S. Fici
Institution: Dipartimento di Scienze Botaniche
Address: Via Archirafi 38
I-90123 Palermo, Italy
Phone: 39 91 6161493

Area of study: * Autecology
* Distribution
* Propagation
* *Ex situ* and *in situ* conservation

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Bellis azorica Hochst. ex Seub.

ASTERACEAE

Status: E
Distribution: Azores

Researcher: M.L. Caixinhas
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Area of Study: * Germination, dormancy

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P-9502 Ponta Delgada Codex, Portugal

Fax: 351 96 653 455

Area of study: * Germination, dormancy

Bibliography:

- Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.
- Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.
- Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe rencontre internationale sur les semences*, Angers (France).
- Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Bencomia exstipulata* Svent.*ROSACEAE**

Status: E**Distribution:** Canary Islands**Researcher:** A. Bañares and J. Real**Institution:** Centro Ecológico de La Laguna, ICONA**Address:** Carretera de La Esperanza Km. 2

La Laguna, Tenerife, Spain

Phone: 34 22 259903 / 263898

Area of study:

- * Flowering, fruit development, pollination
- * Propagation methods
- * Culture techniques
- * Phenology
- * Demography, population dynamics
- * Ecology
- * Reintroduction

Current research:

Genetic recovery of the threatened flora of the Teide National Park.

Bibliography:

None

Biscutella fontqueri* Guinea & Heywood*BRASSICACEAE**

Status: R
Distribution: Spain

Researcher: I. Queral
Institution: Independent
Address: C/ Sarratella 3, 2º - 4ª
E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489

Area of study: * Growth, development
* Demography, population dynamics
* Ecology

Current research:

Threatened endemisms of Els Ports de Tortosa-Beseit.

Bibliography:

- Bolós, O. de (1967) Comunidades vegetales de las comarcas próximas al litoral, situadas entre los ríos Llobregat y Segura. *Mem. Real Acad. Cienc. Artes* 38:1-279.
- Crespo, M.B. Guemes, J. and Mateo, G. (1992) Notes on some taxa of *Biscutella* ser. *Laevigatae* Malinov. Brassicaceae from the eastern Iberian peninsula. *An. Jard. Bot. Madr.* 50 (1):27-34.
- Font Quer, P. (1917) Vuit dies d'excursió botànica als Ports de Tortosa. *Publ. Junta Cienc. Naturals* 2:619-632.
- Font Quer, P. (1920) Contribució al coneiximent de la flora catalana occidental. *Treb Mus. Cienc. Nat.* 5:193-233.
- Guinea, E. (1968) Iconografía *biscutellarum novarum peninsulae ibericae* (subseries pygmaeae). *Collect. Bot.* 7:539-549.
- Queral, I. (1987) *Biscutella fontqueri* Guinea & Heywood (Brassicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 120-121.

Biscutella rotgesii* Foucaud*BRASSICACEAE**

Status: V
Distribution: Corsica

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

None

Brassica insularis Moris**BRASSICACEAE**

Status: R
Distribution: Corsica, Sardinia and Tunisia

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
 Porquerolles
Address: Castel Sainte-Claire
 Rue du Castel Ste. Claire
 F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483

Area of study: * Germination, dormancy
 * Propagation methods
 * Culture techniques

Bibliography:

Dias, J.S. Lima, M.B. Song, K.M. Monteiro, A.A. Williams, P.H. and Osborn, T.C. (1991) Molecular taxonomy of Portuguese tronchuda cabbage and kale landraces using nuclear RFLPs. *Euphytica* 58:221-229.

Kianian, S.F. and Quiros, C.F. (1991) Novel variations in the $x = 19$ *Brassica* species. *Cruciferae Newsletter* No. 14-15, 68-69.

Kianian, S.F. and Quiros, C.F. (1992) Generation of a *Brassica oleracea* composite RFLP map: linkage arrangements among various populations and evolutionary implications. *Theor. Appl. Genet.* 84 (5/6):544-554.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Mithen, R.F. and Lewis, B.G. (1988) Resistance to *Leptosphaeria maculans* in hybrids of *Brassica oleracea* and *Brassica insularis*. *J. Phytopathol.* 123 (3): 253-258.

Mithen, R.F. Lewis, B.G. Heaney, R.K. and Fenwick, G.R. (1987) Glucosinolates of wild and cultivated *Brassica* spp. *Phytochemistry* 26 (7):1969-1974.

Snogerup, S. Gustafsson, M. and Bothmer, R. von (1990) *Brassica* sect. *Brassica* (Brassicaceae). I. Taxonomy and variation. *Willdenowia* 19:271-365.

Snogerup, S. and Persson, D. (1983) Hybridization between *Brassica insularis* Moris and *Brassica balearica* Pers. *Hereditas* 99:187-190.

Bupleurum elatum* Guss.*APIACEAE**

Status: V
Distribution: Sicily

Researcher: F.M. Raimondo
Institution: Dipartimento di Scienze Botaniche
Address: Via Archirafi 38
I-90123 Palermo, Italy
Phone: 39 91 6161493

Area of study: * Autecology
* Propagation
* *Ex situ* and *in situ* conservation

Bibliography:

Colombo, P. Marcenò, C. and Princiotto, R. (1977-78) Notizie morfo-anatomiche su *Bupleurum elatum* Guss., endemica puntiforme madonita. *Atti Accad. Sci. Palermo*, s.4, 37(1):14.

Colombo, P. Marcenò, C. and Princiotto, R. (1980) Osservazioni morfo-anatomiche su alcune endemiche siciliane: *Scabiosa limonifolia* Vahl e *Bupleurum elatum* Guss. *Giorn. Bot. Ital.*, 114(3-4):111-112.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

Campanula poscharskyana Degen**CAMPANULACEAE**

Status: R
Distribution: Yugoslavia

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: C. Vander Mey
Institution: Chicago Botanic Garden
Address: Glencoe, USA

Area of study: * Propagation methods
* Culture techniques

Bibliography:

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Holmenlund, N. (1986) Blomsterdannelse i *Campanula poscharskyana*. *Gartner Tidende* 102: 286-289.

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Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Reimherr, P. and Gradner, U. (1989) Verfruhung von *Campanula* in Topf. *Deutscher-Gartenbau* 43:88-89.

Capsella thracica Velen.**BRASSICACEAE**

Status: V
Distribution: Bulgaria

Researcher: B. Kuzmanov (deceased)
Institution: Institute of Botany
Bulg. Acad. Sci.
Address: 1113 Sofia, Bulgaria

Area of study: * Growth, development
* Demography, population dynamics

Bibliography:

Kuzmanov, B. Ecological features in protection of some rare plant species. *Ekologija* (in press).

Carduncellus danius Webb**ASTERACEAE**

Status: R
Distribution: Spain

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: L. Navarro *et al.*
Institution: Dpto. de Cultivo de Tejidos Vegetales, Instituto Valenciano de Investigaciones Agrarias.
Address: Moncada, Valencia, Spain
Area of study: * Micropropagation

Bibliography:

Costa, M. *et al.* (1987) *Carduncellus danius* Webb (Asteraceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 138-139.

Guerau d'Arellano, G. and Torres, N. (1981) *Nova aportació al coneixment de les plantes d'Eivissa. Formentera*. Inst. d'Estudis Eivissens, Ibiza. 132 pp.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rigual, A. (1972) *Flora y Vegetación de la Provincia de Alicante*. Inst. Est. Alicantinos, Alicante. 403 pp.

Carduus thracicus (Velen.) HayekASTERACEAE

Status: V
Distribution: Bulgaria

Researcher: B. Kuzmanov (deceased)
Institution: Institute of Botany
Bulg. Acad. Sci.
Address: 1113 Sofia, Bulgaria

Area of study: * Growth, development
* Demography, population dynamics

Bibliography:

Kuzmanov, B. Ecological features in protection of some rare plant species. *Ekologija* (in press).

Carex calderae* A. Hansen*CYPERACEAE**

Status: V
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
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Area of study: * Culture techniques

Researcher: J.M. Pita
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Phone: 34 1 3365657
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Area of study: * Germination, dormancy

Researcher: J.A. Rodríguez et al.
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Address: Puerto de la Cruz
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Fax: 34 22 383572

Area of study: * Culture techniques
* Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Centaurea balearica* Rodr.*ASTERACEAE**

Status: E
Distribution: Balearic Islands

Researcher: J. Estades and H. Medrano
Institution: Laboratori de Fisiologia Vegetal
Dep. de Biologia I.C.S.
Address: Universitat de les Illes Balears
Palma de Mallorca, Spain

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Estades, J. and Medrano, H. (1990) Contribución a la conservación de plantas endémicas de Baleares mediante cultivo *in vitro*. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*, Koeltz Scientific Books, Koenigstein, Germany. pp. 121-123.

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Rodríguez, J. (1869) *Centaurea balearica* y *Daphne vellaoides*, dos especies nuevas de la isla de Menorca. *Bull. Soc. Bot. France* 16:237.

Rodríguez, J.J. (1904) *Flórula de Menorca*. Mahón.

Centaurea carratracensis* Lange*ASTERACEAE**

Status: R**Distribution:** Spain**Researcher:** M. Clemente, P. Contreras and E. Hernández**Institution:** Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba**Address:** Avda. de Linneo s/n
E-14004 Córdoba, Spain**Phone:** 34 57 200077 / 200018**Fax:** 34 57 295333**Area of study:** * Micropropagation**Bibliography:**

Clemente, M. (1991). The micropropagation unit at the Cordoba Botanic Garden, Spain. *Botanic Gardens Micropropagation News* 1(3):30-32

Hernández-Bermejo, E.; Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Salvo, E. (1987) *Centaurea carratracensis* Lange (Asteraceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 154-155.

Centaurea hermannii* F. Hermann*ASTERACEAE**

- Status:** V
Distribution: Turkey
- Researcher:** E. Üzen and B. Tütel
Institution: I.Ü. Fen Fakültesi, Botanik Anabilim Dalı
Address: Süleymaniye - Istanbul, Turkey
- Area of study:** * Anatomy
* Flowering, fruit development, pollination
* Dispersal
- Bibliography:**
None

Centaurea lainzii* Fdez. Casas*ASTERACEAE**

Status: R
Distribution: Spain

Researcher: C. Martín and M.E. González-Benito
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid
Address: E-28040 Madrid, Spain

Area of study: * Micropropagation

Current research:

Micropropagation of *Centarea lainzii*

Bibliography:

- Asensi, A. and Díez, B. (1977) *Centaurea lainzii* Fdez.Casas en la Sierra Bermeja de Estepona (Málaga). *Anal. Inst. Bot. Cavanilles* 34:183-188.
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- Trigo, M.M. Recio, M. and Cabezudo, B. (1992) Fragmenta palynologica baetica 10. On the palynology of some endemic and interesting species from Eastern Andalucía V. *Acta Bot. Malacitana*. 17 (0):267-277.

Centaurea rothmalerana* (Arènes) Dostal*ASTERACEAE**

Status: R**Distribution:** Portugal**Researcher:** M.L. Caixinhas, T. Vasconcelos & A.D. Barao**Institution:** Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia**Address:** Tapada da Ajuda
P-1399 Lisboa Codex, Portugal**Area of study:** * Germination, dormancy**Bibliography:**

Caixinhas, M.L., Vasconcelos, T. and Barao, A.D. (1992) Germination de semences d'espèces endémiques après plusieurs années deconservation. *IV Reencontre Internationale sur les semences*, Angers (France).

Centaurium rigualii Esteve**GENTIANACEAE**

Status: E
Distribution: Spain
Researcher: E. González-Benito, J.M. Iriondo and C. Pérez
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
 Universidad Politécnica de Madrid
Address: E-28040 Madrid, Spain
Area of study: * Micropropagation
 * Conservation

Current research:

Micropropagation of *Centaurium rigualii*

Bibliography:

- Alcaraz, F. *et al.* (1987) *Centaurium rigualii* Esteve (Gentianaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 188-189.
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- Gómez-Campo, C. and Malato-Beliz, J. (1985) The Iberian Peninsula. In: C. Gómez-Campo (Ed.) *Plant Conservation in the Mediterranean Area*. Dr. W. Junk Pub., Dordrecht pp.47-70.
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Centranthus trinervis* (Viv.) Béguinot*VALERIANACEAE**

Status: E
Distribution: Corsica and Sardinia

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
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Fax: 33 94 658483

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

Arrigoni, P.V. (1974) I tipi di vegetazione e le entità floristiche in pericolo di estinzione nella Sardegna Centrale. *Biologia Contemporanea* 3:97-104.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

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Corrias, B. (1978) Le piante endemiche della Sardegna: 24-28. *Boll. Soc. Sarda Sci. Nat.* 17:243-266.

Chaerophyllum azoricum* Trelease*APIACEAE**

Status: E
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: J. Y. Lesouef *et al.*
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Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: G.B. Maciel
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Universidade dos Açores
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P-9502 Ponta Delgada Codex, Portugal

Fax: 351 96 653 455

Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

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espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhás Atlânticas*, Madeira.

Cistus osbeckiifolius Webb ex Christ.

CISTACEAE

Status: E
Distribution: Canary Islands

Researcher: A. Bañares, M. Castroviejo, and J. Real
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km.2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Growth, development
* Flowering, fruit development, pollination
* Phenology
* Demography, population dynamics
* Ecology
* Reintroduction
* Biotic interactions

Current research:

Genetic recovery of the Threatened Flora of the Teide National Park.

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: F. Pérez-García & J.M. Pita
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Universidad Politécnica de Madrid
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Phone: 34 1 3365657
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Area of study: * Germination, dormancy

Bibliography:

Bañares, A. Castroviejo, M. and Real, J. (1990) Re-establishment plan for the flora of the Teide National Park I. *Cistus osbaeckiaefolius* and *Helianthemum juliae*. *Boletín del Museo Municipal de Funchal* (in press).

Bañares, A. Romero, P. and Rodriguez, C. (1992) Adiciones corológicas de algunos endemismos vegetales canarios en peligro de extinción. *Bot. Macar.*, 19-20: 141-144.

Christ, D.H. (1888) *Spicilegium canariense*. *Bot. Jahrb.*, 9: 86-172.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maya, P. Monzon A. and Ponce, M. (1988) Datos sobre la germinación de especies endémicas canarias. *Bot. Macar.* 16: 67-80.

Pérez-García, F. Germinación de semillas de *Cistus osbaeckiaefolius* Webb ex Christ. (Cistaceae) *Bot. Macar.*, (in press).

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Sventenius, E.R.S. (1946) Notas sobre la flora de las Cañadas de Tenerife. *Boletín del I.N.I.A.* 15: 149-171.

Cistus palhinhae Ingram**CISTACEAE**

Status: R
Distribution: Portugal

Researcher: M.L. Caixinhas, T. Vasconcelos & A.D. Barao
Institution: Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
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Area of study: * Germination, dormancy

Researcher: J.Y. Lesouef *et al.*
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Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Caixinhas, M.L., Vasconcelos, T. and Barao, A.D. (1992) Germination de semences d'espèces endémiques après plusieurs années deconservation. *IV Reencontre Internationale sur les semences*, Angers (France).

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Coincya rupestris Rouy**BRASSICACEAE**

Status: E
Distribution: Spain

Researcher: M. Clemente, P. Contreras and E. Hernández
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
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Area of study: * Micropropagation

Bibliography:

Gómez-Campo, C. (1987) *Coincya rupestris* Rouy (Brassicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 202-203.

Colchicum chalcedonicum Azn.**LILIACEAE**

Status:	E
Distribution:	Turkey
Researcher:	O. Küçüker
Institution:	Dept. Biology University of Istanbul
Address:	T-34460 Süleymaniye, Istanbul, Turkey
Area of study:	* Anatomy * Flowering, fruit development, pollination * Dispersal * Phenology * Morphology

Bibliography:

Baytop, T. (1987) New observations on the *Colchicum* Liliaceae of Turkey. *Istanbul Univ. Eczacilik. Fak. Mecm.* 23 (0):41-50.

Demiriz, H. (1973) Endemiten der umgebung von Istanbul. *Proc. Int. Symp. Abies Equi-troj. and Turk. Fl.* 147-150.

Demiriz, H. and Baytop, T. (1985) The Anatolian Peninsula. In: Gomez-Campo, C. *Plant Conservation in the Mediterranean Area*. W. Junk Publ. Dordrecht.

Küçüker, O. (1985) The Morphological, anatomical and cytological studies on some *Colchicum* species of Istanbul area. *Istanbul Univ. Fen Fak. Med. Seri B*, 50: 87-111.

Küçüker, O. (1990) A preliminary report on the position of "Meadow Saffrons" (*Colchicum*) of Turkey. *Threatened Plants Newsletter* (in press).

Küçüker, O. and Çelebioglu, T. (1988) Micromorphological and anatomical structure of the seed-testa of some *Colchicum* species. *Candollea* 43(1): 129-138.

Küçüker, O. and Çelebioglu, T. (1990) Morphological and cytotaxonomical notes on some *Colchicum* taxa of Turkey. *Third Plant Life of Southwest Asia Symposium*. Berlin, September 3-9, 1990. Abstracts of the posters, 88.

Syngé, H. (1980) Endangered monocotyledons in Europe and Southwest Asia. In: Brickell, C.D., Cutler, D.F. and Gregory, M. (Eds.) *Petaloid Monocotyledons. Horticultural and Botanical Research*. Academic Press. p. 199-205.

Colchicum corsicum* Baker*LILIACEAE**

Status: V
Distribution: Corsica and Sardinia

Researcher: L. Olivier *et al.*
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F-83400 Hyeres, France
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Fax: 33 94 658483

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

Camarda, I. (1989-1990) Native plants of Sardinia, Italy 198. *Colchicum corsicum* Baker 1879. *Boll. Soc. Sarda. Sci. Nat.* 27 (0):283-287.

Colchicum turcicum Janka**LILIACEAE**

Status: V**Distribution:** Turkey**Researcher:** O. Küçüker**Institution:** Dept. Biology
University of Istanbul**Address:** T-34460 Süleymaniye
Istanbul, Turkey**Area of study:** * Anatomy
* Flowering, fruit development, pollination
* Dispersal
* Phenology
* Morphology**Bibliography:**

Baytop, T. (1987) New observations on the *Colchicum* Liliaceae of Turkey. *Istanbul Univ. Eczacilik. Fak. Mecm.* 23 (0):41-50.

Demiriz, H. and Baytop, T. (1985) The Anatolian Peninsula. In: Gomez-Campo, C. *Plant Conservation in the Mediterranean Area*. W. Junk Publ. Dordrecht.

Husek, A. Sutlupinar, N. Sedmera, P. Voegelien, F. Valka, I. and Simanek, V. (1990) Alkaloids and phenolics of *Colchicum turcicum*. *Phytochemistry* 29 (9):3058-3060.

Küçüker, O. (1985) The morphological, anatomical and cytological studies on some *Colchicum* species of Istanbul area. *Istanbul Univ. Fen Fak. Mec. Seri B*, 50: 87-111.

Küçüker, O. (1990) A preliminary report on the position of "Meadow Saffrons" (*Colchicum*) of Turkey. *Threatened Plants Newsletter* (in press).

Küçüker, O. and Çelebioglu, T. (1988) Micromorphological and anatomical structure of the seed-testa of some *Colchicum* species. *Candollea* 43(1): 129-138.

Synge, H. (1980) Endangered monocotyledons in Europe and Southwest Asia. In: Brückell, C.D. Cutler, D.F. and Gregory, M. (Eds.) *Petaloid Monocotyledons. Horticultural and Botanical Research*. Academic Press. p. 199-205.

Convolvulus canariensis L.CONVOLVULACEAE

Status: V
Distribution: Canary Islands
Researcher: M. González Martín
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Genetics
* Germination, dormancy

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Convolvulus caput-medusae Lowe**CONVOLVULACEAE**

Status: R
Distribution: Canary Islands

Researcher: M. González Martín
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Genetics
* Germination, dormancy

Bibliography:

Mendoza-Heuer, I. (1971) Aportación al conocimiento del género *Convolvulus* en la Zona Macaronésica. *Cuad. Bot. Canar.* 12:22-34.

Montelongo, V. (1977) Estudio cuantitativo de la epidermis foliar de las especies endémicas de *Convolvulus* presentes en Gran Canaria. *Bot. Macar.* 4:9-22.

Montelongo, V. (1983) Situación actual de las comunidades costeras del Sureste de Gran Canaria. II Congreso Internacional Pro-Flora Macaronésica, Funchal. 425-435.

Convolvulus lopez-socasii Svent.CONVOLVULACEAE

Status: E
Distribution: Canary Islands
Researcher: M. González Martín
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Area of study: * Genetics
 * Germination, dormancy

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Area of study: * Culture techniques

Bibliography:

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Sa'ad, F. (1967) *The Convolvulus species of the Canary Isles, the Mediterranean region and the Near and Middle East*. Bronder-Offset, Rotterdam.

Sventenius, E.R. (1960) *Additamentum ad Floram canariensem*. Madrid.

Coronopus navasii* Pau*BRASSICACEAE**

Status: E
Distribution: Spain

Researcher: J.M. Iriondo and C. Pérez
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
 Universidad Politécnica de Madrid
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Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
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 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Gómez-Campo, C. (1987) *Coronopus navasii* Pau (Brassicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 206-207.

Gómez-Campo, C. and Malato-Beliz, J. (1985) The Iberian Peninsula. In: C. Gómez-Campo (Ed.) *Plant Conservation in the Mediterranean Area*. Dr. W. Junk Pub., Dordrecht pp.47-70.

Iriondo, J.M. and Pérez, C. (1990) Micropropagation of a threatened plant species: *Coronopus navasii* (Brassicaceae). *Plant Cell Reports* 8: 745-748.

Iriondo, J.M. and Pérez, C. (1991) *In vitro* storage of three endangered species from S.E. Spain. *Botanic Gardens Micropropagation News* 1:46-48.

Iriondo, J.M. Plaza, R. and Prieto, C. (1994) Números cromosómicos de plantas occidentales, 709-711. *Anales del Jardín Botánico de Madrid* 52(1):81.

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Crambe arborea Webb ex Christ.**BRASSICACEAE**

Status: E
Distribution: Canary Islands

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy

Researcher: J.A. Rodríguez et al.
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Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques
* Germination, dormancy

Bibliography:

Bramwell, D. (1969) The genus *Crambe* (Cruciferae) in the Canary Islands Flora. *Cuad. Bot. Canar.* 6:5-12.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de

Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

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Crambe scaberrima* Webb ex Bramwell*BRASSICACEAE**

Status: R
Distribution: Canary Islands

Researcher: J.M. Pita
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Area of study: * Germination, dormancy

Bibliography:

Aguinagalde, I. and Pero-Martinez, M.A. del (1982) The occurrence of acylated flavonol glycosides in the Cruciferae (*Sisymbrium gillesii*, *Crambe tataria*, *Crambe cordifolia*, *Crambe scaberrima*). *Phytochemistry* 21:2875-2878.

Bramwell, D. (1969) The genus *Crambe* (Cruciferae) in the Canary Islands Flora. *Cuad. Bot. Canar.* 6:5-12.

J.M. Pita (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Crepis canariensis (Sch. Bip.) Bab.

ASTERACEAE

Status: V
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
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Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Crocus etruscus* Parl.*IRIDACEAE**

Status: R
Distribution: Italy

Researcher: Mariotti Mauro Giorgio
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I-53100 Siena, Italy
Phone: 39 577 298869 / 298874
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Area of study: * Ecology
* Taxonomy

Bibliography:

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Cupressus dupreziana A. CamusCUPRESSACEAE

Status: E**Distribution:** Algeria**Researcher:** C. Ducatillion**Institution:** Institut National de la Recherche Agronomique**Address:** Antibes, France**Area of study:** * Propagation methods
* Culture techniques**Researcher:** J.Y. Lesouef *et al.***Institution:** Conservatoire Botanique de Brest**Address:** 52 Allée du Bot
F-29200 Brest, France**Phone:** 33 98 418895**Area of study:** * Culture techniques**Bibliography:**

Andreoli, C. Panconesi, A. Ponchet, J. and Raddi, P. (1984) Etude comparees du comportement des cypres a Florence et a Antibes. In *Maladie du cypres (Coryneum cardinale)*. Report Commission of the European Communities No. EUR 9200:9-20.

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Dobry, J. and Kyncl, J. (1989) *Cupressus dupreziana* threatened coniferous tree of Central Sahara, Algeria. *Lesnictvi*. (Prague) 35 (4):371-384. Czech.

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Hrib, J. and Dobry, J. (1984) An explant culture of Tassilian cypress *Cupressus dupreziana* A. Camus. *For. Ecol. Manage.* 8: 235-242.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Lothian, T.R.N. (1981) *Cupressus dupreziana* A. Camus he Saharan cypress (Africa). *Arboric J.* 5:107-109.

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Piovetti, L. and Diara, A. (1977) Les sesquiterpenes de *Cupressus dupreziana*. *Phytochemistry* 16:103-106.

Piovetti, L. Francisco, C. Pauly, G. Benchabane, O. Bernard Dagan, C. and Diara, A. (1981) Volatile constituents of *Cupressus dupreziana* and the sesquiterpenes of *Cupressus sempervirens*. *Phytochemistry* 20:1299-1302.

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Cytisus aeolicus Guss.**FABACEAE**

Status: E
Distribution: Sicily

Researcher: G. Troja
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Address: Via Archirafi 38
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Area of study: * Genetics
* Taxonomy

Bibliography:

Bartolo, G. Brullo, S. Majorana, G. and Pavone, P. (1977) Numeri cromosomici per la Flora Italiana: 315-328. *Inform. Bot. Ital.*, 9:72.

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Cytisus moleroi* Fdez. Casas*FABACEAE**

Status: V**Distribution:** Spain**Researcher:** A. Lora, E. Hernández and J. Prados**Institution:** Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba**Address:** Avda. de Linneo s/n
E-14004 Córdoba, Spain**Phone:** 34 57 200077 / 200018**Fax:** 34 57 295333**Area of study:** * Conservation**Current research:**

Cartography of the populations, estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

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Suasana de la Serna, A. (1987) *Cytisus moleroi* Fern. Casas (Fabaceae). In: C. Gómez-Campo (ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 210-211.

Daboecia azorica* Tutin & E.F. Warb.*ERICACEAE**

- Status:** R
Distribution: Azores
- Researcher:** M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
 Dpto. de Botânica e Engenharia Biológica
 Instituto Superior de Agronomia
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 P-1399 Lisboa Codex, Portugal
- Area of Study:** * Germination, dormancy
- Researcher:** J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
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Phone: 33 98 418895
- Area of study:** * Culture techniques
- Researcher:** G.B. Maciel
Institution: Universidade dos Açores, Dpto. de Biologia
Address: Rua Mae de Deus 58, Apart. 1422
 P-9502 Ponta Delgada Codex, Portugal
- Area of study:** * Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, H.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe rencontre internationale sur les semences*, Angers (France).

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Daphne rodriguezii* Teixidor*THYMELACEACEAE**

Status: E
Distribution: Balearic Islands

Researcher: J. Estades and H. Medrano
Institution: Laboratori de Fisiologia Vegetal
Dep. de Biología I.C.S.
Address: Universitat de les Illes Balears
Palma de Mallorca, Spain

Area of study: * Micropropagation

Bibliography:

Bolós, O. Molinier, R. and Montserrat, P. (1970) Observations phytosociologiques dans l'île de Minorque. *Acta Geobot. Barcin.* 5:1-150.

Estades, J. and Medrano, H. (1990) Contribución a la conservación de plantas endémicas de Baleares mediante cultivo *in vitro*. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*, Koeltz Scientific Books, Koenigstein, Germany. pp. 121-123.

Llorens, L. (1979) Nueva contribución al conocimiento de la flora balear (3). *Mediterranea* 3:101-122.

Llorens, L. and Bermejo, A. (1987) *Daphne rodriguezii* Teixidor (Thymelaeaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 212-213.

Delphinium pictum* Willd.*RANUNCULACEAE**

Status: V
Distribution: Corsica

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483

Area of study: * Germination, dormancy
* Culture techniques

Bibliography:

Blanche, C. and Molero, J. (1984) Dos combinaciones nuevas y un comentario corológico en el genero *Delphinium* L. *An. Jardín Bot. Madrid* 41:469.

Descurainia gilva* Svent.*BRASSICACEAE**

Status: R
Distribution: Canary Islands

Researcher: J.M. Pita
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Universidad Politécnica de Madrid
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Area of study: * Germination, dormancy

Bibliography:

- Bramwell, D. (1977) A Revisión of *Descurainia* Webb & Berth. Section Sisymbriodendron (Christ) O. E. Schultz in the Canary Islands. *Bot. Macar.* 4: 31-55.
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Dianthus diutinus Kit.

CARYOPHYLLACEAE

Status: R
Distribution: Hungary, Yugoslavia

Researcher: V. Stevanovic, I. Spasic and S. Pavic
Institution: Institute of Botany and Botanical Garden
Faculty of Biology
Address: University of Belgrade, Yugoslavia

Area of study: * Distribution

Bibliography:

Stevanovic, V. and Spasic, I. (1993) The endemic flora of Serbia: Diversity and endangering. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Dianthus nardiformis* Janka*CARYOPHYLLACEAE**

Status: V**Distribution:** Bulgaria, Romania, Yugoslavia**Researcher:** A. Petrova**Institution:** Botanical Garden

Bulgarian Academy of Sciences

Address: P.O. Box 664

1000 Sofia, Bulgaria

Area of study: * Demography, population dynamics

* Distribution

Bibliography:

Petrova, A. (1993) Rare plants in "Pobiti Kamani" protected areas in Northeastern Bulgaria. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Diplotaxis siettiana MaireBRASSICACEAE

- Status:** Ex
Distribution: Spain
- Researcher:** C. Gómez-Campo
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos,
 Universidad Politécnica de Madrid
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- Area of study:** * Reproduction
 * Reintroduction
- Researcher:** J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Phone: 33 98 418895
- Area of study:** * Culture techniques

Bibliography:

- Génova, M.M. Gómez, F. and Moreno J.C. (1990) Los endemismos de Alboran: seguimiento y valoración de sus poblaciones. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany, pp. 127-130.
- Génova, M.M. Gómez, F. Moreno, J.C. Morla, C. and Sáinz-Ollero, H. (1986) El paisaje vegetal de la isla de Alborán. *Candollea* 41:103-111.
- Gómez-Campo, C. (1979) Protección de especies amenazadas en España. *Fundación Juan March. Serie Universitaria* 87:25-33.
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- Gómez-Campo, C. (1987) *Diplotaxis siettiana* Maire (Brassicaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 224-225.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Prieto, P. et al. (1972) *La isla de Alborán*. Universidad de Granada 134 pp.

Dorycnium broussonetii (Choisy.) Webb & Berth.

FABACEAE

Status: R
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Bibliography:

Santos, A. and Fernández, M. (1979) *Plantae in loco natali ab Eric. R. Sventenius inter annos MCMXLIII-MCMLXXI lectae, in herbario ORT Instituto Nationalis Investigationum Agrarium (HortusAcclimatationis Plantarum Arautapae) sunt*. Index Seminum Hort. Accl. Araut. MCMLXXVIII.

Dracunculus canariensis* Kunth.*ARACEAE**

Status: V
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
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Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Echium acanthocarpum Svent.**BORAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
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Area of study:

- * Germination, dormancy
- * Flowering, fruit development, pollination
- * Reproduction
- * Propagation methods
- * Phenology
- * Demography, population dynamics
- * Ecology
- * Reintroduction

Current research:

Genetic recovery of the endangered flora of the Garajonay National Park.

Bibliography:

Bañares, A. (1990) La flora amenazada de los Parques Nacionales Canarios con especial referencia al P. N. de Garajonay. In: Koeltz Sc. Books (Ed.) *Conservation Techniques in Botanic Gardens*. pp. 87-90.

Bañares, A. (1990) Programa de recuperación de la flora amenazada del P. N. de Garajonay. In: Pérez de Paz (Ed.) *Garajonay, Patrimonio de la Humanidad*. ICONA, Madrid.

Bramwell, D. (1972) A revision of the genus *Echium* in Macaronesia. *Lagascalia* 2:37-115.

Sventenius, E. (1960) *Additamentum ad floram canariensem*. I. Inst. Nac. Invest. Agronóm. Minist. Agricult. Madrid.

Echium auberianum* Webb & Berth.*BORAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Area of study: * Culture techniques
* Phenology
* Demography, population dynamics
* Ecology

Current research:

Study on the germination behaviour of some endemisms of the Supracanary layer.

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Sventenius, E.R.S. (1946) Notas sobre la flora de las Cañadas de Tenerife. *Bol. Inst. Nac. Invest. Agronom.* 15: 149-171.

Webb, P.B. and Berthelot, S. (1844) *Histoire Naturelle des Iles Canaries. Phytographia Canariensis* 3:42. Paris.

Echium handiense Svent.**BORAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: J. Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy

Bibliography:

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Bramwell, D. (1972) A revision of the genus *Echium* in Macaronesia. *Lagascalia* 2 (1): 37-115.

Kunkel, G. (1977) Endemismos canarios: Inventario de las plantas vasculares endémicas en la provincia de Las Palmas. Monografías, 15. ICONA, Madrid 49.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Echium hierrense* Webb ex Bolle*BORAGINACEAE**

Status: R
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Bibliography:

- Bramwell, D. (1972) A Revisión of the genus *Echium* in Macaronesia. *Lagascalia* 2:37-115.
- Santos, A. (1980) Contribución al conocimiento de la flora y vegetación de la isla de Hierro (I. Canarias). *Fund. Juan March. Ser. Univ.* 114. Madrid.

Echium leucophaeum Webb ex Spr. & Hutch.

BORAGINACEAE

Status: R
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
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Area of study: * Micropropagation

Bibliography:

Bramwell, D. (1972) A revision of the genus *Echium* in Macaronesia. *Lagascalia* 2(1):37-115.

Sprague, T.A. and Hutchinson, J. (1974) *Echiums* from the Atlantic Islands. I. *Kew. Bull.* 141:287-299.

Echium pininana* Webb & Berth.*BORAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

- Bramwell, D. (1972) A Revisión of the genus *Echium* in Macaronesia. *Lagascalia* 2:37-115.
- Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.
- Roeder, E. Liu, K. and Bourauel, T. (1991) Pyrrolizidine alkaloids from *Echium pininana*. *Phytochemistry* 30 (9):3107-3110.
- Santos, A. (1983) *Vegetación y Flora de La Palma*. Editorial Interinsular Canaria. Santa Cruz de Tenerife.

Erodium cazorlanum* Heywood*GERANIACEAE**

Status: E**Distribution:** Spain**Researcher:** E. Hernández, M. Clemente, A. Lora and J. Prados**Institution:** Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba**Address:** Avda. de Linneo s/n
E-14004 Córdoba, Spain**Phone:** 34 57 200077 / 200018**Fax:** 34 57 295333**Area of study:** * Conservation**Current research:**

Estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Martínez-Parras, J.M. and Molero-Mesa, J. (1987) *Erodium cazorlanum* Heywood (Geraniaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 238-239.

Erodium paularense Fdez. Glez. & Izco**GERANIACEAE**

Status: V**Distribution:** Spain**Researcher:** J.M. Iriondo *et al.***Institution:** Dpto. Biología Vegetal, E.T.S.I. Agrónomos,
Universidad Politécnica de Madrid**Address:** Ciudad Universitaria
E-28040 Madrid, Spain**Phone:** 34 1 3365657**Fax:** 34 1 3365656**Area of study:** * Germination, dormancy

* Flowering, fruit development, pollination

* Reproduction

* Dispersal

* Propagation methods

* Micropropagation

* Culture techniques

* Phenology

* Demography, population dynamics

* Ecology

Current research:Population dynamics of *Erodium paularense***Bibliography:**Domínguez, F. Galicia, D. y Moreno, L. (1993) El geranio de El Paular, un naufrago en el valle de Lozoya. *Quercus*, 93:32-33.Fernández-González, F. (1987) *Erodium paularense* Fdez. González & Izco (Geraniaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 240-241.Fernández-González, F. (1989) *Erodium paularense* nueva especie de la subsección *Petraea* Brumh. *Candollea*, 44 (1):241-248.González-Benito, M.E. Martín, C. and Iriondo, J.M. (in press) Autecology and conservation of *Erodium paularense* Fdez. Glez. & Izco. *Biological Conservation*.Guittonneau, G. (1972) Contribution à l'étude biosystématique du genre *Erodium* L'Hérit. dans le bassin méditerranéen occidental. *Boissiera* 20:1-154.Iriondo, J.M. González-Benito, M.E. and Martín, C. (1994) Conservación sobre el terreno y en laboratorio del geranio de El Paular. *Quercus*, 104:22-24.

Iriondo, J.M. González-Benito, M.E. and Martín, C. (1994) Estudios demográficos y fenológicos en el endemismo madrileño *Erodium paularense* Fdez. Glez. & Izco (Geraniaceae). *Studia Oecologica*, 10-11:183-189.

Iriondo, J.M. Plaza, R. and Prieto, C. (1994) Números cromosómicos de plantas occidentales, 709-711. *Anales del Jardín Botánico de Madrid* 52(1):81.

Erodium rupicola* Boiss.*GERANIACEAE**

Status: E
Distribution: Spain

Researcher: E. Hernández, M. Clemente, A. Lora and J. Prados
Institution: Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Conservation

Current research:

Estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Blanca-López, G. and Cueto-Romero, M. (1987) *Erodium rupicola* Boiss. (Geraniaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 244-245.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Erucastrum palustre (Pirona) Vis.**BRASSICACEAE**

Status: E
Distribution: Italy

Researcher: S. Gardini Peccenini
Institution: Istitute Botanico "Hanbury"
Address: Università-Corso Dogali, 1/C
Genova, Italy

Area of study: * Ecology
* Distribution

Bibliography:

Béguinot, A. (1906) Sulla *Brassica palustris* Pir., *B. elongata* Ehrh. e *B. perscica* Boiss. et Hohen. nella Flora Italiana. *Boll. Soc. Bot. Ital.* 1905:258-264.

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Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 1. Tip. Savini-Mercuri, Camerino. (scheda 7-3 Risorgive del Fiume Taglio).

Martini, F. (1987) L'endemismo vegetale nel Friuli - Venezia Giulia. *Biogeographia* 13:339-399.

Martini, F. and Poldini, L. (1986) Distribuzione ed ecologia di *Erucastrum palustre* (Pir.) Vis. *Atti Museo Friul. Storia Nat.* 8:221-242.

Poldini, L. (1973) Die Pflanzendecke der Kalkflachmoore in Friaul (Nordostitalien). *Veröff. Geobot. Inst. EHT Stiftung Rübel, Zürich* 51:166-178.

Euonymus latifolius Miller**CELASTRACEAE**

Status: E**Distribution:** Spain**Researcher:** M. Clemente, E. Hernández, P. Contreras and J. Prados**Institution:** Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba**Address:** Avda. de Linneo s/n
E-14004 Córdoba, Spain**Phone:** 34 57 200077 / 200018**Fax:** 34 57 295333**Area of study:** * Conservation**Current research:**

Estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Euphorbia azorica Seub.**EUPHORBIACEAE**

Status: V
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: G.B. Maciel
Institution: Universidade dos Açores, Dpto. de Biologia
Address: Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal

Area of study: * Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, H.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe rencontre internationale sur les semences*, Angers (France).

Euphorbia gaditana Cosson**EUPHORBIACEAE**

Status: E**Distribution:** Spain**Researcher:** M.J. Gallego**Institution:** Dpto. Biología Vegetal y Ecología, Facultad de Farmacia, Universidad de Sevilla.**Address:** Prof. García González, s/n.
E-41012 Sevilla, Spain.**Phone:** 34 5 4556787**Fax:** 34 5 4233765**Area of study:**

- * Germination, dormancy
- * Growth, development
- * Flowering, fruit development, pollination
- * Reproduction
- * Dispersal
- * Phenology
- * Demography, population dynamics

Bibliography:

None

Euphorbia handiensis* Burchd.*EUPHORBIACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: C. Ortega
Institution: Jardín Botánico "Viera y Clavijo"
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 E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Micropropagation

Researcher: J.A. Rodríguez *et al.*
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Address: Puerto de la Cruz
 E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques

Bibliography:

Aldridge, A.E. and Ortega, J. (1976) Estudios en la Flora de Macaronesia: Algunos números de cromosomas II. *Bot. Macar.* 2: 9-18.

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

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Kunkel, G. (1977) *Endemismos canarios. Inventario de las Plantas Vasculares Endémicas en la provincia de Las Palmas*. Ed. Ministerio de Agricultura, ICONA. Monografías 15. Madrid. pág. 111.

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Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rodriguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Euphorbia lambii Svent.**EUPHORBIACEAE**

Status: E
Distribution: Canary Islands

Researcher: A. Bañares and J. Real
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Phenology
* Demography, population dynamics
* Ecology

Current research:

Genetic recovery of the endangered flora of the Garajonay National Park.

Bibliography:

Bañares, A. Romero, P. and Rodriguez, C. (1992) Adiciones corológicas de algunos endemismos vegetales canarios en peligro de extinción. *Bot. Macar.*, 19-20:141-144.

Groeneveld, H.W. Elings, J.C. Blanco, M.S.J. and Bramwell, D. (1988) Mobilization of reserves and synthesis of sterols and triterpenes in seedlings of two Canarian *Euphorbia* species. *Ann. Bot.* 62(3):303-312.

Groeneveld, H.W. Elings, J.C. Blanco, M.S.J. and Bramwell, D. (1989) Quantitative aspects of triacylglycerol metabolism and sterol synthesis from carbon-14 acetate in etiolated seedlings of *Euphorbia lambii*. *Physiol. Plant.* 75 (2): 227-232.

Groeneveld, H.W. Idzinga, T.M. and Elings, J.C. (1990) Organic acids and cellular changes in the endosperm of *Euphorbia lambii* seedlings. *Physiol. Plant.* 79 (3):465-470.

Sventenius, E. (1960) Additamentum ad floram canariensem. I. Inst. Nac. Invest. Agronóm. Minist. Agricult., Madrid.

Euphorbia maresii* Knoche*EUPHORBIACEAE**

Status: R
Distribution: Balearic Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: M. Mus and J.A. Rosselló
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Fac. Ciencias, Univ. Islas Baleares
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Fax: 34 71 200741

Area of study: * Germination, dormancy
* Growth, development
* Flowering, fruit development, pollination

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Euphorbia mellifera Aiton**EUPHORBIACEAE**

Status: E
Distribution: Canary Islands
Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
 La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
 * Culture techniques

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
 E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-54.

Bañares, A. and Beltran E. (1985) Nuevas aportaciones a la flora vascular de la Gomera I. Canarias. Notas corológicas-ecológicas. *Vieraea* 15 (1-2): 41-55.

Ferreira, M.J.U. Lobo, A.M. O'Mahoney, C.A Williams, D.J. and Wyler, H. (1990) Euferol and melliferol two novel triterpenoids from *Euphorbia mellifera*. *Chem. Soc. Perkin. Trans. I.* 0 (1):185-187.

Ferreira, M.J.U. Lobo, A.M. O'Mahoney, C.A Williams, D.J. and Wyler, H. (1991) Madeiranones a new class of pentacyclic triterpenes D friedomadeir-14-en-3-beta-ol and D friedomadeir-14-en-3-one D C friedomadeir-7-en-3-beta-ol and D C friedomadeir-7-en-3-one. *Helv. Chim. Acta* 74 (6):1329-1338.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Euphorbia stygiana H.C. Watson**EUPHORBIACEAE**

Status: V**Distribution:** Azores**Researcher:** M.L. Caixinhas**Institution:** Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia**Address:** Tapada da Ajuda
P-1399 Lisboa Codex, Portugal**Area of Study:** * Germination, dormancy**Researcher:** J.Y. Lesouef *et al.***Institution:** Conservatoire Botanique de Brest**Address:** 52 Allée du Bot
F-29200 Brest, France**Phone:** 33 98 418895**Area of study:** * Culture techniques**Researcher:** G.B. Maciel**Institution:** Universidade dos Açores, Dpto. de Biologia**Address:** Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal**Fax:** 351 96 653 455**Area of study:** * Germination, dormancy**Bibliography:**

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endêmicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Euzomodendron bourgaeum Cosson**BRASSICACEAE**

Status: R
Distribution: Spain

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: A. Lora, J. Prados, A. Pujadas and E. Hernández
Institution: Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
 E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Conservation

Current research:

Cartography and status of the populations. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Researcher: M.E. Merlo, M.M. Marquez and M. Alemán
Institution: Dpto. Biología Vegetal
 E.U. Politécnica
Address: Campus Universitario de Almería
 Almería, Spain

Area of study: * Germination, dormancy

Bibliography:

Gómez-Campo, C. (1978) Studies on Cruciferae: VI. Geographical distribution and conservation status of *Boleum* Desv., *Guiraoa* Coss. and *Euzomodendron* Coss. *Anal. Inst. Bot. Cavanilles* 35:165-176.

Gómez-Campo, C. (1981) Taxonomic and evolutionary relationships in the genus *Vella* L. (Cruciferae). *Bot. Journ. Linnean Soc.* 82:165-179.

Gómez-Campo, C. (1987) *Euzomodendron bourgaeum* Cosson (Brassicaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 258-259.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Losa-España, T. and Rivas-Goday, S. (1958) Estudio florístico y geobotánico de la provincia de Almería. *Arch. Inst. Acim.*, 13(1):191.

Rivas-Martínez, S. *et al.* (1991) Endemismos vasculares de Andalucía. *Rivasgodaya* 6:32.

Sagredo, R. (1987) *Flora de Almería*. Diputación Provincial de Almería. 552 pp.

Festuca arenicola* (Prod.) Soó*POACEAE**

Status: K
Distribution: Bulgaria, Romania

Researcher: A. Petrova
Institution: Botanical Garden
Bulgarian Academy of Sciences
Address: P.O. Box 664
1000 Sofia, Bulgaria

Area of study: * Demography, population dynamics
* Distribution

Bibliography:

Petrova, A. (1993) Rare plants in "Pobiti Kamani" protected areas in Northeastern Bulgaria. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Fritillaria conica* Boiss.*LILIACEAE**

Status: V
Distribution: Greece

Researcher: G. Kamari
Institution: Botanical Institute, Department of Biology,
University of Patras
Address: G-26010 Patras, Greece

Area of study: * Culture techniques
* Distribution
* Karyology

Bibliography:

- Kamari, G. (1991) The genus *Fritillaria* L. in Greece: taxonomy and karyology. In: D. Phitos & W. Greuter (Eds.) Proceedings of the 6th OPTIMA Meeting, *Bot. Chron.* 10:253-270.
- Rix, E.M. (1975) Notes on *Fritillaria* (*Liliaceae*) in the eastern Mediterranean region. *Kew Bull.* 30:153-162.
- Zaharof, E. (1987) Biometrical and cytological studies of the genus *Fritillaria* L. in Greece. Ph. D. Thesis, Univ. Thessaloniki (in Greek).
- Zaharof, E. (1989) Karyological studies of twelve *Fritillaria* species from Greece. *Caryologia.* 42 (2):91-102.

Genista benehoavensis* (Bolle ex Svent.) M. del Arco*FABACEAE**

Status: E**Distribution:** Canary Islands**Researcher:** A. Palomares and A. Bañares**Institution:** Centro Ecológico de La Laguna, ICONA**Address:** Carretera de La Esperanza Km. 2

La Laguna, Tenerife, Spain

Phone: 34 22 259903 / 263898

Area of study:

- * Germination, dormancy
- * Growth, development
- * Flowering, fruit development, pollination
- * Propagation methods
- * Culture techniques
- * Phenology
- * Demography, population dynamics
- * Ecology
- * Biotic interactions
- * Reintroduction

Current research:

Recovery plan for the endangered flora of La Caldera de Taburiente National Park.

Bibliography:

Del Arco Aguilar, M. (1982) Sobre la presencia de *Genista benehoavensis* (Bolle ex Svent.) M del Arco, *comb. nov.* (Fabaceae-Genisteae) en la isla de la Palma (I. Canarias) *Vieraea* 11: 267-282.

Santos, A. (1983) *Vegetación y Flora de La Palma*. Editorial Interinsular Canaria. Sta. Cruz de Tenerife. 348 pp.

Sventenius, E. (1954) Revisión de *Genista benehoavensis* Bolle: *Cytisus benehoavensis* (Bolle) Svent. *comb. nova. Bol. Inst. Nac. Invest. Agron.* 30 (203):83-94.

Genista cilentina* Valsecchi*FABACEAE**

Status: V
Distribution: Italy, Sicily
Researcher: F. Valsecchi
Institution: Istituto di Botanica
Address: Via Muroli 25
I-07100, Sassari, Italy
Phone: 39 79 237087
Area of study: * Taxonomy

Bibliography:

Valsecchi, F. (1993) Il genere *Genista* L. in Italia. I. Le specie delle sezioni *Erinacoides* Spach, *Ephedrospartum* Spach, *Ameospartum* sect. nova. *Webbia* 48: 779-824.

Geranium cazortense* Heywood*GERANIACEAE**

Status: E
Distribution: Spain

Researcher: E. Hernández, A. Pujadas, J. Prados and A. Lora
Institution: Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Conservation

Current research:

Estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Geranium dolomiticum* Roth.*GERANIACEAE**

Status: R
Distribution: Spain

Researcher: M. Velasco and M. Moreno
Institution: Dpto. Biología Vegetal I. Facultad de Biología
Universidad Complutense
Address: E-28040 Madrid, Spain
Phone: 34 1 5490029 / 5492382

Area of study:

- * Anatomy
- * Genetics
- * Germination, dormancy
- * Reproduction
- * Dispersal
- * Culture techniques
- * Phenology

Current research:

Taxonomic revision of the Spanish species of genus *Geranium*.

Bibliography:

Laínz, M. (1976) Aportaciones al conocimiento de la flora cántabro-astur. *Bol. Inst. Est. Astur.* 11:19.

Moreno, M. and Velasco, M. (1987) *Geranium dolomiticum* Roth. (Geraniaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 290-291.

Nieto-Feliner, G. (1985) Estudio crítico de la flora orófila del Suroeste de León: Mtes. Aquilianos, Sierra del Teleno y Sierra de la Cabrera. *Ruizia* 2:1-239.

Velasco, M. (1992) Estudios taxonómicos de las especies del género *Geranium*, sección subacaulia Koch. *Bull Soc. Bot. Fr. Lett. Bot.* 139 (3):295-303.

Geranium rubescens Yeo**GERANIACEAE**

Status: R**Distribution:** Madeira**Researcher:** J.P. Reduron**Institution:** Parc Zoologique et Botanic de Mulhouse**Address:** Mulhouse, France**Area of study:** * Propagation methods

* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Teo. 1969 *Bol. Mus. Munic. Funchal* 2.

Widler-Kiefer, H. and Yeo, P.F. (1987) Fertility relationships of *Geranium* Geraniaceae section ruberta anemonifolia lucida and unguiculata. *Plant. Syst. Evol.* 155 (1-4):283-306.

Gesnouinia arborea (L.f.) GaudichURTICACEAE

Status: V
Distribution: Canary Islands
Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Bañares, A. (1990) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Kravtsova, T.I. (1992) The origin and structure of pseudanthic inflorescence in the genus *Gesnouinia*, Urticaceae. *Bot. Zh.* (St. Petersburg.) 77 (4):39-44. (in Russian).

Globularia ascanii* Bramwell & Kunkel*GLOBULARIACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.A. Cabrera
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Micropropagation
* Genetic variability
* Somaclonal variation

Bibliography:

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

Bramwell, D. and Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las Islas Canarias. *Bot. Macar.* 10:13-17.

Globularia neapolitana O. Schwarz**GLOBULARIACEAE**

Status: V
Distribution: Italy

Researcher: B. Moraldo, V. La Valva, M. Ricciardi, G. Caputo and R. Nazzaro
Institution: Dip. Biol. Vegetale
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I-80139 Napoli, Italy
Phone: 39 81 440681
Fax: 39 81 450165

Area of study: * Distribution

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

Gardini-Peccenini, S. (1984) *Flora da Proteggere, Indagine se Alcune Specie Vegetali Minacciate o Rare in Italia*. Errepiesse, Pavia.

Guadagno, M. (1931-1932) Flora Caprearum nova. *Arch. Bot.* 8: 276.

La Valva, V. Ricciardi, M. Caputo, G. and Nazzaro, R. La flora della Penisola Sorrentina. *Delpinoa*. (in press).

Moraldo, B. La Valva, V., Ricciardi, M. and Caputo, G. (1985-1986) La flora dei Monti Picentini (Campania). Pars altera: *Pyrolaceae - Orchidaceae*. *Delpinoa* n.s., 27-28:59-149.

Ricciardi, M. Aprile, G.G. and Sifola, M.I. (1987) Cartografia floristica della Campania (Primo contributo). *Ann. Bot.* 45, suppl. 5:65-78.

Schwarz, O. (1938) Die gattung *Globularia*. *Bot. Jahrb.* 69: 348-350.

Globularia sarcophylla* Svent.*GLOBULARIACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Growth, development
* Micropropagation

Current research:

Cryopreservation, continued micropropagation with additional clones.

Bibliography:

Bramwell, D. & Rodrigo, J. (1982) Prioridades para la conservación de la diversidad genética en la flora de las islas Canarias. *Bot. Macar.*, 10:3-17.

Fay, M.F. In what situations is *in vitro* culture appropriate to plant conservation? *Biodiversity and Conservation*. (in press).

Fay, M.F. Micropropagation of plants from the Canary Islands. *Bot. Mus. Mun. Funchal Supp.* 2 (in press).

Sventenius, E. (1954) *Specilegium canariense*. *Bol. Inst. Nac. Invest. Agrar.* 13:15-20.

Gonospermum gomerae* Bolle*ASTERACEAE**

Status: V
Distribution: Canary Islands

Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
 La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Flowering, fruit development, pollination
 * Propagation methods
 * Culture techniques
 * Phenology
 * Demography, population dynamics
 * Ecology
 * Reintroduction

Current research:

Genetic recovery of the threatened flora of the Garajonay National Park.

Researcher: Rosa Febles
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
 E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Genetics

Researcher: J.M. Pita
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
 Universidad Politécnica de Madrid
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Phone: 34 1 3365657
Fax: 34 1 3365656

Area of study: * Germination, dormancy

Bibliography:

Bolle, C. (1859) *Addenda ad floram Atlantidis, praecipue insularum Canariensium Gorgadumque. Bonplandia* 7:293-298.

Febles, R. (1990) *Análisis citogenético y evolutivo en las especies endémicas de los géneros Gonospermum Less., Lugoa D.C. y Tanacetum L. (Compositae: Anthemideae) de las Islas Canarias*. Doctoral Thesis, Madrid.

Febles, R. Fernandez, A.M. and Gonzalez, J.J. (1989) Análisis cariotípico de los géneros *Gonospermum* Less y *Lugoa* DC. *Bot. Macar.* 17: 77-92.

J.M. Pita (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Gypsophila papillosa* Porta*CARYOPHYLLACEAE**

Status: R
Distribution: Italy
Researcher: S. Gardini Peccenini
Institution: Istitute Botanico "Hanbury"
Address: Università-Corso Dogali, 1/C
Genova, Italy

Area of study: * Ecology

Bibliography:

Bianchini, F. (1974) *Gypsophila papillosa* Porta endemismo puntiforme. *Boll. Mus. Civ. St. nat. Verona* 1:531-534.

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Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Gardini-Peccenini, S. (1984) *Flora da Proteggere. Indagine su Alcune Specie Vegetali Minacciate o Rare in Italia*. Errepiesse, Pavia.

Haplophyllum patavinum* (L.) G. Don fil.*RUTACEAE**

Status: E**Distribution:** Italy**Researcher:** R. Filippini, R. Caniato, E.M. Cappelletti *et al.***Institution:** Dipartimento di Biologia**Address:** Via Trieste, 75
I-35121 Padova, Italy**Area of study:** * Micropropagation**Bibliography:**

Chiesura, F. Curti, L. Lorenzoni, G.G. Marchiori, N. and Caniglia, G. (1978) Situazione attuale di *Haplophyllum patavinum* (L.) G. Don fil. sui Colli Euganei (Padova). *Giorn. Bot. Ital.*, 11:320-321.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Dolcher, T. (1957) La posizione sistematica e geografica dell'*Haplophyllum patavinum* (L.) G. Don fil.(= *Ruta patavina* L.) e i caratteri delle sue stazioni euganee. *Atti Ist. Veneto Scienze, Lettere, Ati*, 115:183-216.

Filippini, R. Piovan, A. Cassina, G. and Cappelletti, E.M. (1992) Germinazione dei semi e propagazione in vitro di *Haplophyllum patavinum* (L.) G. Don fil. (Rutaceae). Prove preliminari. *Giorn. Bot. Ital.*, 126:66.

Filippini, R. Caniato, R. Cappelletti, E.M. Piovan, A. Innocenti, G. and Cassina, G. (1994) *In vitro* regeneration of *Haplophyllum patavinum* (L.) G. Don fil., a rare and endangered plant. *Botanic Gardens Micropropagation News*, 1(7):87-90.

Gardini, S. (1984) Flora da proteggere, indagine su alcune specie vegetali minacciate o rare in Italia. Errepiesse, Pavia.

Guzzo, F. De Luca, A. Chiesura, F. and Mariani, P. (1991) *Haplophyllum patavinum* G. Don: caratterizzazione istologica degli apparati riproduttori. *Giorn. Bot. Ital.*, 125: 229.

Maggioni, L. (1991) Un esempio realizzato: lo studio di una pianta in pericolo di estinzione. *Panda*, 9:25-26.

Heberdenia excelsa (Aiton) Banks ex DC.

MYRSINACEAE

Status: V
Distribution: Canary Islands

Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
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Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:59-64.

Helianthemum juliae* Wildpret*CISTACEAE**

Status: E**Distribution:** Canary Islands**Researcher:** A. Bañares**Institution:** Centro Ecológico de La Laguna, ICONA**Address:** Carretera de La Esperanza Km. 2

La Laguna, Tenerife, Spain

Phone: 34 22 259903 / 263898

Area of study:

- * Growth, development
- * Flowering, pollination, fruit development
- * Propagation methods
- * Culture techniques
- * Phenology
- * Demography, population dynamics
- * Ecology
- * Biotic interactions
- * Reintroduction

Current research:

Genetic recovery of the threatened flora of the Teide National Park.

Bibliography:

Bañares, A. Castroviejo, M. and Real, J. (1990) Re-establishment Plan for the flora of the Teide National Park I. *Cistus osbaeckiaefolius* and *Helianthemum juliae*. *Boletín del Museo Municipal de Funchal* (in press).

Bañares, A. Romero, P. and Rodríguez, C. (1992) Adiciones corológicas de algunos endemismos vegetales canarios en peligro de extinción. *Bot. Macar.* 19-20:141-144.

Maya, P. Monzon, A. and Ponce, M. (1988) Datos sobre la germinación de especies endémicas canarias. *Bot. Macar.* 16: 67-80.

Wildpret, W. (1986) *Helianthemum juliae* Wildpret, sp. nov. (Cistaceae) un nuevo endemismo canario. *Vieraea* 16: 361-364.

Helianthemum polygonoides* Pein., Mtez.-Parras, Alc. & Esp.*CISTACEAE**

Status: R
Distribution: Spain

Researcher: J.M. Iriondo and F. Pérez-García
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Universidad Politécnica
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Fax: 34 1 336 5656

Area of study: * Germination
* Micropropagation

Bibliography:

Iriondo, J.M. Plaza, R. and Prieto, C. (1994) Números cromosómicos de plantas occidentales, 709-711. *Anales del Jardín Botánico de Madrid* 52(1):81.

Iriondo, J.M. Prieto, C. and Pérez-García, F. (in press) *In vitro* regeneration of *Helianthemum polygonoides* Peinado *et al.*, an endangered species of salt meadows. *Botanic Gardens Micropropagation News*.

Peinado, M. Martínez-Parras, J.M. Alcaraz, F. and Espuelas, I. (1987) *Helianthemum polygonoides*, a new species of the SE Iberian Peninsula. *Candollea*, 42:361-364.

Helichrysum monogynum* Burt & Sunding*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques
* Germination, dormancy

Bibliography:

Burt, B.L. and Sunding (1973) *Helichrysum monogynum*, a new species from Lanzarote, Canary Island. *Bot. Noticer.* Vol. 126: 340-344.

Kunkel, G. (1982) *Los riscos de Famara (Lanzarote, islas Canarias). Breve descripción y guía florística.* I.C.O.N.A. Naturalia Hispanica n 22. Madrid.

Marrero, A. (1988) La flora y vegetación del Parque Natural de los islotes del Norte de Lanzarote y acantilados de Famara. Su situación actual. *1ª Jornadas Atlánticas de Protecção do Meio Ambiente.* Angra do Heroísmo, Azores.

Maya, P. Monzón, A. and Ponce, M. (1988) Datos sobre la germinación de especies endémicas canarias. *Bot. Macar.* 16.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens.* Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Hieracium valentinum* Arv.-Touvet et Rev.*ASTERACEAE**

Status: R
Distribution: Spain

Researcher: I. Qeral
Institution: Independent
Address: C/ Sarratella 3, 2º - 4ª
E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489

Area of study: * Growth, development
* Demography, population dynamics
* Ecology

Current research:

Threatened endemic plant species from Els Ports and Maestrat

Bibliography:

Bolós, O. (1967) Comunidades vegetales de las comarcas próximas al litoral situadas entre los ríos Llobregat y Segura. *Mem. Real Acad. Cienc. Art. Barcelona* 38:1-279.

Qeral, I. (1987) *Hieracium valentinum* Arvet-Touvet & Reverchon (Asteraceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 312-313.

Vigo-Bonada, J. (1968) La vegetació del Massís de Penyagolosa. *Inst. Est. Catalans, sec. Cienc.* 37:1-246.

Hippocrepis valentina* Boiss.*FABACEAE**

Status: R
Distribution: Spain

Researcher: A. Montolio and F. González
Institution: Dep. de Genética, Universitat de València
Address: c/ Dr. Moliner, 50
E-46100 Bujassot, Valencia, Spain

Area of study: * Genetics

Researcher: L. Navarro *et al.*
Institution: Dpto. de Cultivo de Tejidos Vegetales,
Instituto Valenciano de Investigaciones
Agrarias.
Address: Moncada, Valencia, Spain

Area of study: * Micropropagation

Bibliography:

- Bolós, O. de (1967) Comunidades vegetales de las comarcas próximas al litoral situadas entre los ríos Llobregat y Segura. *Mem. Acad. Ci. Arts.* 38:1-269.
- Costa, M. *et al.* (1987) *Hippocrepis valentina* Boiss. (Fabaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 314-315.
- Guemes-Heras, J. (1992) *Hippocrepis valentina* Boiss. endemic in Alicante. *An. Jard. Bot. Madr.* 50 (2):260-262.

Hypericum athoum* Boiss. & Orph.*GUTTIFERAE**

Status: R**Distribution:** Greece**Researcher:** I. Hagemann and R. Vogt**Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem**Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany**Area of study:**

- * Germination, dormancy
- * Growth, development
- * Reproduction
- * Propagation methods

Bibliography:

Papanicolaou, K. (1986) Contribution to the flora of Mount Pangeon Northeast Greece. *Ann. Mus. Goulandris*. 7 (0):67-156.

Hypericum delphicum* Boiss. & Heldr.*GUTTIFERAE**

Status: R
Distribution: Greece

Researcher: I. Hagemann and R. Vogt
Institution: Botanischer Garten und Botanisches Museum
Berlin-Dahlem
Address: Königin-Luise-Str. 6-8
D-14191 Berlin, Germany

Area of study: * Germination, dormancy
* Growth, development
* Reproduction
* Propagation methods

Bibliography:
None

Hypericum kelleri* Baldacci*GUTTIFERAE**

Status: R**Distribution:** Crete**Researcher:** I. Hagemann and R. Vogt**Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem**Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany**Area of study:**

- * Germination, dormancy
- * Growth, development
- * Reproduction
- * Propagation methods

Bibliography:

None

Hypochoeris oligocephala* (Svent. & Bramw.) Lack*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
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Fax: 34 22 383572

Area of study: * Germination, dormancy

Bibliography:

Lack, H. W. (1978) Die Gattung Heywoodiella Svent. & Bramw. (Asteraceae, Lactuceae) *Willdenowia* 8(2):329-339.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Sventenius, E. and Bramwell, D. (1971) Heywoodiella Svent. & Bramwell; genus novum. *Acta Phytotaxonomica Barcinonensia* 7:5-8.

Iberis fontqueri Pau**BRASSICACEAE**

Status: R
Distribution: Spain
Researcher: M. Moreno
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 Facultad Biología
 Universidad Complutense
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Phone: 34 1 5490029 / 5492382
Area of study: * Anatomy
 * Genetics
 * Germination, dormancy
 * Phenology

Bibliography:

Asensi, A., Díez, B. and Esteve, F. (1978) Contribución al estudio del *Omphalodion brassicaefoliae* Riv. Mart., Izco & Costa en el Sur de la Península Ibérica. *Acta Bot. Malacitana*, 4:63-70.

Del Mar Trigo, M. Hidalgo, M.I. Bootello, M.L. and Cabezudo, B. (1991) Fragmenta palynologica baetica palynology of some endemic and interesting species in Eastern Andalusia IV. *Acta Bot. Malacitana* 16:500-508.

Moreno, M. (1982) Taxonomía de las especies endémicas del género *Iberis* L.(Cruciferae) en la Península Ibérica. *Tesis Doctoral*. Facultad Biología. Universidad Complutense. Madrid. (2 vols.) 697 pp.

Moreno, M. (1984) Contribución al estudio del grano de polen en el g. *Iberis* L. *Anal. Asoc. Pal. Lengua Esp.* 1: 5-14.

Moreno, M. (1985) Números cromosómicos 394-403. *Lagascalia* 13 (2): 307-311.

Moreno, M. (1986) Nota taxonómica sobre *Iberis fontqueri* Pau, endemismo malagueño. *Acta Bot. Malacitana* 11: 205-214.

Moreno, M. and Cabezudo, B. (1987) *Iberis fontqueri* Pau (Brassicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 330-331.

Pau, C. (1924) Contribución a la flora española. Plantas de Almería. *Mem. Mus. Cienc. Nat. Barcelona ser. Bot.* 1(1):1-34.

Portela, I. and Moreno, M. (1984) Contribución al estudio de la semilla en el g. *Iberis* L. *Bol. Soc. Broteriana* (Ser. 2) 57: 161 -177.

Portela, I. and Moreno, M. (1985) Contribución al estudio de la semilla en el g. *Iberis* L. II. *Bol. Soc. Broteriana* (Ser. 2) 58: 63-83.

Rivas-Goday and Esteve-Chueca, F. (1972) Flora serpentínicola española. 2. Nuevos edafismos endémicos y sus respectivas asociaciones en el Reino de Granada. *Anal. Real Acad. Farmacia* 38:409-462.

Iberis grosii Pau**BRASSICACEAE**

Status: R
Distribution: Spain

Researcher: M. Moreno
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Universidad Complutense
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Area of study: * Anatomy
* Genetics
* Germination, dormancy
* Phenology

Bibliography:

Moreno, M. (1982) Taxonomía de las especies endémicas del género *Iberis* L.(Cruciferae) en la Península Ibérica. Tesis Doctoral. Facultad Biología. Universidad Complutense. Madrid. (2 vols.) 697 pp.

Moreno, M. (1983) *Iberis grosii* Pau: una especie poco conocida de la flora andaluza. *Anal. Jard. Bot. Madrid* 40: 53-61.

Moreno, M. (1984) Contribución al estudio del grano de polen en el g. *Iberis* L. *Anal. Asoc. Pal. Lengua Esp.* 1: 5-14.

Moreno, M. (1985) Números cromosómicos 394-403. *Lagascalia* 13 (2): 307-311.

Moreno, M. Cabezudo, B. and Nieto, J.M. (1987) *Iberis grosii* Pau (Brassicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 332-333.

Pau, C. (1924) Contribución a la flora española. Plantas de Almería. *Mem. Mus. Cienc. Nat. Barcelona ser. Bot.* 1(1):1-34.

Portela, I. and Moreno, M. (1984) Contribución al estudio de la semilla en el g. *Iberis* L. *Bol. Soc. Broteriana* Ser. 2. 57:161-177.

Portela, I. and Moreno, M. (1985) Contribución al estudio de la semilla en el g. *Iberis* L. II. *Bol. Soc. Broteriana* Ser. 2. 58: 63-83.

Ilex perado Aiton**AQUIFOLIACEAE**

- Status:** R
- Distribution:** Azores, Canary Islands and Madeira
- Researcher:** A. Bañares and J. Real
- Institution:** Centro Ecológico de La Laguna, ICONA
- Address:** Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
- Phone:** 34 22 259903 / 263898
- Area of study:**
- * Flowering, fruit development, pollination
 - * Reproduction
 - * Propagation methods
 - * Culture techniques
 - * Phenology
 - * Demography, population dynamics
 - * Ecology
 - * Re-introduction

Current research:

Genetic recovery of the threatened flora of the Garajonay National Park.

Bibliography:

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- Lecuona Neumann, R.M. La Serna Ramos, I. Méndez Pérez, B. and Wildpret de La Torre, W. (1988) Contribution to the palynological study of the endemic Macaronesian flora. *Pollen Spores.* 29:359-390.

Ipomoea imperati (Vahl) Griseb.

CONVOLVULACEAE

Status: Ex
Distribution: Italy

Researcher: V. La Valva
Institution: Dip. Biol. Vegetale
Address: Via Foria 223
I-80139 Napoli, Italy
Phone: 39 81 440681
Fax: 39 81 450165

Area of study: * Taxonomy

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Gardini-Peccenini, S. (1984) *Flora da Proteggere, Indagine su Alcune Specie Vegetali Minacciate o Rare in Italia*. Errepiesse, Pavia.

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La Valva, V. and Sabato, S. (1983) Nomenclature and typification of *Ipomea imperati* (Convolvulaceae). *Taxon* 32: 110-132.

Iris pamphylica* Hedge*IRIDACEAE**

Status: R**Distribution:** Turkey**Researcher:** W. Lobin**Institution:** Botanischer Garten der Universität Bonn**Address:** Bonn, Germany**Area of study:**

- * Propagation methods
- * Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Isatis amani Davis**BRASSICACEAE**

Status: K
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis arenaria Azn.

BRASSICACEAE

Status: E
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis aucheri Boiss.

BRASSICACEAE

Status: R
Distribution: Turkey
Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis bitlisica Davis**BRASSICACEAE**

Status: R
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis callifera Boiss. et Bal.

BRASSICACEAE

Status: R
Distribution: Turkey
Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321
Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis candolleana Boiss.

BRASSICACEAE

Status: R

Distribution: Turkey

Researcher: Sinasi Yildirimli

Institution: Hacettepe Üniversitesi

Fen Fakültesi Biyoloji Bölümü

Address: Beytepe 06532, Ankara, Turkey

Phone: 90 4 2352500 / 1321

Area of study: * Phenology

* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis cappadocica Desv.

BRASSICACEAE

Status: R
Distribution: Turkey, Caucasia, Iran, Irak
Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321
Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis constricta* Davis*BRASSICACEAE**

Status:	R
Distribution:	Turkey
Researcher:	Sinasi Yildirimli
Institution:	Hacettepe Üniversitesi Fen Fakültesi Biyoloji Bölümü
Address:	Beytepe 06532, Ankara, Turkey
Phone:	90 4 2352500 / 1321
Area of study:	* Phenology * Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis ermenekensis Yildirimli**BRASSICACEAE**

Status: R
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis frigida* Boiss. et Kotschy*BRASSICACEAE**

Status: E**Distribution:** Turkey**Researcher:** Sinasi Yildirimli**Institution:** Hacettepe Üniversitesi

Fen Fakültesi Biyoloji Bölümü

Address: Beytepe 06532, Ankara, Turkey**Phone:** 90 4 2352500 / 1321**Area of study:** * Phenology

* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis huber-morathii Davis**BRASSICACEAE**

Status: R
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis kozlowskyi Grossh**BRASSICACEAE**

- Status:** R
Distribution: Turkey, Caucasia
Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321
Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis lockmanniana Kotschy et Boiss.

BRASSICACEAE

Status: R
Distribution: Turkey
Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
Address: Beytepe 06532, Ankara, Turkey
Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis pinnatiloba* Davis*BRASSICACEAE**

Status: E**Distribution:** Turkey**Researcher:** Sinasi Yildirimli**Institution:** Hacettepe Üniversitesi

Fen Fakültesi Biyoloji Bölümü

Address: Beytepe 06532, Ankara, Turkey**Phone:** 90 4 2352500 / 1321**Area of study:** * Phenology

* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis spatella Davis**BRASSICACEAE**

Status: R
Distribution: Turkey

Researcher: Sinasi Yildirimli
Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü
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Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isatis undulata Aucher ex Boiss.

BRASSICACEAE

Status: V

Distribution: Turkey

Researcher: Sinasi Yildirimli

Institution: Hacettepe Üniversitesi
Fen Fakültesi Biyoloji Bölümü

Address: Beytepe 06532, Ankara, Turkey

Phone: 90 4 2352500 / 1321

Area of study: * Phenology
* Distribution

Bibliography:

Yildirimli, S. (1982) Türkiye'deki *Isatis L.* türleri ve çevre. In: M.A. Öztürk, I. Türkan (Eds.) *Canlılar ve Çevre*. Efe Üniv. Fen Fak. Botanik Anabilim Dalı, Bornova, İzmir.

Isoetes malinverniana Ces. et De Not.ISOETACEAE

Status: V
Distribution: Italy
Researcher: S. Gardini Peccenini
Institution: Istituto Botanico "Hanbury"
Address: Università-Corso Dogali, 1/C
 Genova, Italy

Area of study: * Ecology
 * Distribution

Bibliography:

Chiariglione, A. (1988) Flora del bacino della Stura di Lanzo - Specie protette, rare o interessanti. *Riv. Piem. St. Nat.* 9:77-105.

Corbetta, F. (1965) Osservazioni relative ad una nuova stazione di *Isoetes malinverniana*. *Natura e Montagna* 5: 57-61.

Corbetta, F. (1967) Nuovi dati sulla distribuzione di *Isoetes malinverniana* in Lomellina. *Giorn. Bot. Ital.* 101: 290-291.

Corbetta, F. (1968) Nuovi dati sulla distribuzione di *Isoetes malinverniana* in Lomellina. *Giorn. Bot. Ital.* 102: 107-112.

Corbetta, F. (1985) Situazione Italiana. In: H. Koopowitz and H. Kaye. *Piante in estinzione. Una crisi mondiale*. Edagricole, Bologna.

Ferrarini, E. Ciampolini, F. Pichi-Sermolli, R.E.G. and Marchetti, D. (1986) Iconographia Palynologica Pteridophytorum Italiae. *Webbia* 40:1-202.

Filipello, S. and Gardini-Peccenini, S. (1985) The Italian Peninsular and Alpine Regions. In: C. Gómez-Campo *Plant Conservation in the Mediterranean Area*. Junk Publishers, Dordrecht.

Mattiolo, O. (1912) Sull'endemismo dell'*Isoetes malinverniana* di Cesati e De Notaris. *Ann. Bot.* 10:129-146.

Rosenkrantz, D. and Tosco, V. (1979) Le stazioni di *Isoetes malinverniana* Ces. et De Not. del Basso Canavese (Piemonte). *Allionia* 23: 155-160.

Schneller, J.J. (1982) Cytological investigations on *Isoetes malinverniana*. *Webbia* 35 (2):307-309.

Soldano, A. and Badino, A. (1990) Nuove stazioni di *Isoetes malinverniana* Cesati e De Notaris nel Vercellese. Tipificazione (Pteridophyta, Isoetaceae) *Riv. Piem. St. Nat.* 11:65-69.

Isoplexis chalcantha* Svent. & O'Shan.*SCROPHULARIACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Current research:

Continued micropropagation of clones derived from different seeds.

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

González, A.G. Breton, J.L. Navarro, E. Trujillo, J. Boada, J. and Rodríguez, R. (1985) Phytochemical study of *Isoplexis chalcantha*. *Plant Medica*. 1:9-11.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Marrero, A. and Suárez, C. (1990) Notas corológicas de especies en peligro. *Bot. Macar.* 18:86-88.

Navarro, E. Boada, J. Rodríguez, R. Martín, P. Breton, J. and González, A.G. (1986) Pharmacological study of uzarigenin-glucoside-canaroside. *Planta Medica*. 6:498-500.

Navarro, E. Trujillo, J. Breton, J.L. and Boada, J. (1986) Cyclohexyl-ethanol derivatives from *Isoplexis chalcantha*. *Phytochemistry* 25:1990-1991.

Sventenius, E.R. (1958) *Plantae macaronienses novae vel minus cognitae. Index Seminum Horti Acclimat-Plantarum Arautapae pars IV*, 43-60.

Trujillo, J.M. Hernández, O. and Navarro, E. (1990) Monoglycosides from *Isoplexis chalcantha*. *J. Nat. Prod. (Lloydia)* 53:167-170.

Isoplexis sceptrum (L.f.) Loudon**SCROPHULARIACEAE**

Status: R
Distribution: Madeira

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Jankaia heldreichii (Boiss.) Boiss.

GESNERIACEAE ---

- Status:** V
Distribution: Greece
- Researcher:** J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895
- Area of study:** * Culture techniques
- Researcher:** W. Lobin and M. Koenen
Institution: Botanischer Garten der Universität Bonn
Address: Bonn, Germany
- Area of study:** * Propagation methods
 * Culture techniques
- Researcher:** B. Stevanovic and O. Damajanovic
Institution: Botanical Institute
 Faculty of Biology
Address: University of Belgrade, Yugoslavia
- Area of study:** * Anatomy
 * Ecology

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest.* Brest. 32 pp.

Stevanovic, B. and Damajanovic, O. (1993) Ecoanatomical differences between Balkan endemo-relict species of Gesneriaceae. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Vokou, D. Petanidou, T. and Bellos, D. (1990) Pollination ecology and reproductive potential of *Jankaia heldreichii* Gesneriaceae a tertiary relict on Mt. Olympus Greece. *Biol. Conserv.* 52:125-134.

Lactuca watsoniana TreleaseASTERACEAE

Status: E
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: G.B. Maciel
Institution: Universidade dos Açores, Dpto. de Biologia
Address: Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal

Fax: 351 96 653 455

Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Lavatera acerifolia Cav.**MALVACEAE**

Status: R
Distribution: Canary Islands
Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Kunkel, G. (1977) *Endemismos canarios. Inventario de las Plantas Vasculares Endémicas en la provincia de Las Palmas*. Ed. Ministerio de Agricultura, ICONA. Monografías 15. Madrid. pag. 111.

La Serna Ramos, I. and Domínguez Santana, M.D. (1991) Contribution to the palynological study of the genus *Lavatera* L. Malvaceae in the Canary Islands. In: A. Ballouche and J. Maley (Eds.) *Palaeoecology of Africa* Vol. 22. A. Balkema, Rotterdam. pp.35-47.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Scholz, S. (1992) Sobre la presencia de *Lavatera acerifolia* Cav. en Fuerteventura. In: Notas corológico-taxonómicas de la flora macaronésica, nº 12, *Bot. Macar.* 19-20:133-134.

Sventenius, E.R. (1960) *Aditamentum ad Floram canariensem*. Madrid. pag. 32.

Lavatera oblongifolia* Boiss.*MALVACEAE**

Status: R**Distribution:** Spain**Researcher:** J.M. Iriondo & C. Pérez**Institution:** Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid**Address:** E-28040 Madrid, Spain**Area of study:** * Micropropagation**Bibliography:**

Blanca, G. and Cueto, M. (1987) *Lavatera oblongifolia* Boiss. (Malvaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 346-347.

Iriondo, J.M. and Pérez, C. (1991) *In vitro* storage of three endangered species from S.E. Spain. *Botanic Gardens Micropropagation News* 1:46-48.

Iriondo, J.M. and Pérez, C. (1992) *In vitro* plant regeneration of *Lavatera oblongifolia* (Malvaceae), an endangered species. *Botanic Gardens Micropropagation News* 1(5):54-57.

Iriondo, J.M. and Pérez, C. Somaclonal variation in *Lavatera*. In: Y.P.S. Bajaj (Ed.) *Somaclonal Variation II. Biotechnology in Agriculture and Forestry*. Springer-Verlag, Berlin. (in press).

Molero, J. and Pérez-Raya, F. (1987) *La Flora de Sierra Nevada. Avance sobre el Catálogo Florístico Nevadense*. Universidad de Granada. 397 pp.

Lavatera phoenicea* Vent.*MALVACEAE**

Status: E
Distribution: Canary Islands
Researcher: J.M. Pita
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid
Address: E-28040 Madrid, Spain
Phone: 34 1 3365657
Fax: 34 1 3365656

Area of study: * Germination, dormancy

Bibliography:

La Serna Ramos, I. and Domínguez Santana, M.D. (1991) Contribution to the palynological study of the genus *Lavatera* L. Malvaceae in the Canary Islands. In: A. Ballouche and J. Maley (Eds.) *Palaeoecology of Africa* Vol. 22. A. Balkema, Rotterdam. pp.35-47.

Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Ventenat, E.P. (1805) Jardín de la Malmaison. vol. 2(20):120.

Leucanthemum arundanum* (Boiss.) Cuatrec.*ASTERACEAE**

Status: R**Distribution:** Spain**Researcher:** I. Hagemann and R. Vogt**Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem**Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany**Area of study:**

- * Anatomy
- * Genetics
- * Germination, dormancy
- * Growth, development
- * Reproduction
- * Propagation methods

Bibliography:

Blanca, G. Salinas, M.J. Díaz de la Guardia, C. and Romero García, A. (1991) Fragmenta palynologica baetica palynologic studies of the subfamily Asteroideae Compositae in the Southeast of the Iberian Peninsula. *Acta Bot. Malacitana* 16:491-500.

Leucanthemum gracilicaule* (Dufour) Alavi & Heywood*ASTERACEAE**

- Status:** R
Distribution: Spain
- Researcher:** I. Hagemann and R. Vogt
Institution: Botanischer Garten und Botanisches Museum
Berlin-Dahlem
Address: Königin-Luise-Str. 6-8
D-14191 Berlin, Germany
- Area of study:**
- * Genetics
 - * Germination, dormancy
 - * Growth, development
 - * Reproduction

Bibliography:

Costa, M. *et al.* (1987) *Leucanthemum gracilicaule* (Dufour) Alavi & Heywood (Asteraceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 354-355.

Gómez-Campo, C. (1978) La flora espontánea y sus posibilidades en jardinería. *Jardín y Paisaje* 40:31-34.

Leucojum nicaeense Ard.

AMARYLLIDACEAE

Status: V

Distribution: France

Researcher: W. Lobin and M. Koenen

Institution: Botanischer Garten der Universität Bonn

Address: Bonn, Germany

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Ligusticum corsicum GayAPIACEAE

Status: R
Distribution: Corsica

Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de
Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483

Area of study: * Germination, dormancy

Bibliography:
None

Limonium arborescens* (Brouss.) O. Kuntze*PLUMBAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Santos Guerra, A. and Fernández Galván, M. (1983) Vegetación del macizo de Teno. Datos para su conservación. *II Congr. Inter. Pro Flora Mac.*, Funchal. pp. 385-423.

Webb, P.B. and Berthelot, S. (1836-1850) Histoire Naturelle des Iles Canaries. *Phytographia Canariensis* 3(2):496.

Limonium carthaginense (Rouy) C.E. Hubb. & Sandw.

PLUMBAGINACEAE

Status: V
Distribution: Spain

Researcher: C. Martín
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid
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Phone: 34 1 3365663
Fax: 34 1 3365656

Area of study: * Micropropagation

Bibliography:

Hubbard, C.E. and Sandwith, N.Y. (1928) New plants from Spain. *Kew Bull. Jg.*, 1928:150-155.

Pau, C. (1903) Plantas nuevas para la flora española procedentes de Cartagena. *Bol. Soc. Aragon. Cienc. Nat. (Zaragoza)*, 2:65-72.

Rouy, G. (1904) Sur quelques espèces, formes ou variétés du genre *Statice*. *Rev. Bot. Syst. Geogr. Bot.*, 1:179-186.

Limonium castellonense* Erben*PLUMBAGINACEAE**

Status: I
Distribution: Spain

Researcher: I. Queral
Institution: Independent
Address: C/ Sarratella 3, 2º - 4ª
E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489

Area of study: * Demography, population dynamics
* Ecology

Current research:

Threatened plant species in the littoral and marshes.

Bibliography:

Dorda, E. *et al.* (1987) *Limonium castellonense* Erben (Plumbaginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 364-365.

Erben, M. (1980) Bemerkungen zur Taxonomie der Gattung *Limonium* I. *Mitt. Bot. München* 16:547-563.

Socorro, O. and Tarrega, S. (1983) *Limonium castellonense* (Plumbaginaceae). A new species for the Spanish flora. *An. Jardin Bot. Madrid* 40(1):83-87.

Limonium cavanillesii* Erben*PLUMBAGINACEAE**

Status: V
Distribution: Spain

Researcher: I. Queral
Institution: Independent
Address: C/ Sarratella 3, 2º - 4ª
E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489

Area of study: * Demography, population dynamics
* Ecology

Current research:

Threatened plant species in the littoral and marshes.

Bibliography:

Costa-Talens, M. (1986) *Ecosistemas Vegetales del Litoral Mediterráneo Español*. Monografías Dir. Gen. Med. Amb. MOPU. 270 pp.

Dorda, E. *et al.* (1987) *Limonium cavanillesii* Erben (Plumbaginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 366-367.

Erben, M. (1980) Bemerkungen zur Taxonomie der Gattung *Limonium* I. *Mitt. Bot. München* 16:547-563.

Sennen, F. (1913) Plantes d'Espagne: 3me note. *Bull. Acad. Int. Geogr. Bot.* 23:14.

Limonium dendroides Svent.**PLUMBAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef
Institution: Conservatoire Botanique de Brest
Address: Vallou du Stang-Alard 52, Allé du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Germination, dormancy
* Propagation methods
* Micropropagation
* Culture techniques
* Ecology

Researcher: A. Marrero and M.A. Cabrera
Institution: Jardín Botánico "Viera y Clavijo"
Address: Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Germination, dormancy
* Propagation methods
* Micropropagation
* Culture techniques
* Ecology

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Marrero, A. Lesouef, J.Y. and Cabrera, M.A. (1992) Estudios previos para un programa de rescate genético de *Limonium dendroides* Svent. *Botanica Macaronésica*, 19-20:3-14.

Sventenius, E. (1960) *Additamentum ad floram canariensem I*. Inst. Nac. Invest. Agronom. Madrid.

Limonium duforei* (Girard) O. Kuntze*PLUMBAGINACEAE**

Status: V
Distribution: Spain
Researcher: M.D. Lledó, M.B. Crespo and J.B. del Amo-Marco
Institution: Dpto. de Biología Vegetal
 Facultat de Ciències Biològiques
 Universitat de Valencia
Address: C/Dr. Moliner 50
 46100 Burjassot, Valencia, Spain

Area of study: * Micropropagation

Researcher: Carmen Martín
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
 Universidad Politécnica de Madrid
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Area of study: * Micropropagation

Researcher: I. Queral
Institution: Independent
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Phone: 34 64 243489

Area of study: * Demography, population dynamics
 * Ecology

Current research:

Threatened plant species in the littoral and marshes.

Bibliography:

Costa, M. (1982) La vegetación costera valenciana: Los Cabos. *Doc. Phytosociol.* 6:355-364.

Costa, M. *et al.* (1987) *Limonium duforei* (Girard) O. Kuntze (Plumbaginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 370-371.

Erben, M. (1978) Die gattung *Limonium* im Südwestmediterranem raum. *Mitt. Bot. München* 14:361-631.

Lledó, M.D. Crespo, M.B. and del Amo-Marco, J.B. (1993) Preliminary remarks on micropropagation of threatened *Limonium* species (Plumbaginaceae). *Botanic Gardens Micropropagation News* 1(6):72-74.

Limonium estevei Fdez. Casas**PLUMBAGINACEAE**

Status: V
Distribution: Spain

Researcher: C. Martín
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
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Phone: 34 1 3365663
Fax: 34 1 3365656

Area of study: * Micropropagation

Bibliography:

Alcaraz, F. *et al.* (1987) *Limonium estevei* Fdez. Casas (Plumbaginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 374-375.

Erben, M. (1978) Die gattung *Limonium* im Südwestmediterranean raum. *Mitt. Bot. München* 14:361-631.

Fernández-Casas, J. (1971) Nueva especie del género *Limonium* (Tourd.) Miller *Cuad. Biol.* 1:23-24.

Martín, C. and Pérez, C. (1992) Multiplication *In vitro* of *Limonium estevei* Fdez. Casas. *Ann. Bot.* 70: 165-167.

Pount, H. (1973) *Limonium almeriense*, espece nouvelle du sud de l'Espagne. *Bull. Soc. Bot. Fr.* 120:341-346.

Limonium fruticans* (Webb) O. Kuntze*PLUMBAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Bramwell, D. (1971) Studies in the Canary Islands Flora: The vegetation of Punta de Teno, Tenerife. *Cuad. Bot. Canar.* 11:4-37.

Calero, A. and Santos, A. (1988) Reproductive biology of threatened species in the flora of the Canary Islands, Spain. *Lagascalia* 15 (Suppl.):661-664.

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Limonium gibertii (Sennen) Sennen**PLUMBAGINACEAE**

Status: R
Distribution: Spain

Researcher: C. Martín
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid
Address: E-28040 Madrid, Spain
Phone: 34 1 3365663
Fax: 34 1 3365656

Area of study: * Micropropagation

Bibliography:

- Erben, M. (1982) Revision der gattung *Limonium*. Die gattung *Limonium* in Südwestmediterranean raum. *Mitt. Bot. Munchen*, 14:361-631.
- Llorens, L. (1985) El género *Limonium* Miller en la isla de Formentera (Balears). *Lazaroa* 8:69-83.
- Romo, A.M. (1987) *Limonium gibertii* (Sennen) Sennen. In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 380-381.

Limonium imbricatum* (Webb & Berthel.) Hubbard*PLUMBAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Santos, A. (1983) *Vegetación y Flora de La Palma*. Editorial Interinsular Canaria. S/C de Tenerife. 348 pp.

Voggenreiter, V. (1974) *Geobotanische untersuchungen an der natürlichen végetation der Kanareninsel Tenerife*. Dissert. Bot. 26. J. Cramer, Lehre. 718 pp.

Limonium malacitanum* B. Díez Garretas*PLUMBAGINACEAE**

Status: E
Distribution: Spain

Researcher: E. Hernández, A. Pujadas, J. Prados and A. Lora
Institution: Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Conservation

Current research:

Estimation of variability, germplasm collection and preservation, and propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

- Díez Garretas, B. (1981) *Limonium malacitanum* Díez Garretas nueva especie. *Trab. y Monogr. Dep. Bot. Málaga* 2:123-130.
- Guerra Montes, J. (1987) *Limonium malacitanum* B. Díez Garretas (Plumbaginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA; Madrid. pp. 386-387.
- Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.
- Rivas-Martínez, S. *et al.* (1991) Endemismos vasculares de Andalucía. *Rivasgodaya* 6:43.

Limonium optimae* Raimondo*PLUMBAGINACEAE**

Status: E**Distribution:** Sicily**Researcher:** L. Gianguzzi**Institution:** Dipartimento di Scienze Botaniche**Address:** Via Archirafi 38

I-90123 Palermo, Italy

Phone: 39 91 6161493

Area of study:

- * Autecology
- * Distribution
- * Propagation
- * *Ex situ* and *in situ* conservation

Bibliography:

Colombo, P., Gianguzzi, L. and Raimondo, F.M. (1993) Osservazioni ecomorfologiche e cariologiche su un nuovo *Limonium* della Sicilia centrale. *Giorn. Bot. Ital.*, 127 (3): 52.

Raimondo, F.M. (1993) *Limonium optimae*, a new species from central Sicily. *Flora Med.*, 3:13-18.

Limonium parvibracteatum* Pignatti*PLUMBAGINACEAE**

Status: R
Distribution: Spain

Researcher: M.D. Lledó, M.B. Crespo and J.B. del Amo-Marco
Institution: Dpto. de Biología Vegetal
Facultat de Ciències Biològiques
Universitat de Valencia
Address: C/Dr. Moliner 50
46100 Burjassot, Valencia, Spain

Area of study: * Micropropagation

Bibliography:

Lledó, M.D. Crespo, M.B. and del Amo-Marco, J.B. (1993) Preliminary remarks on micropropagation of threatened *Limonium* species (Plumbaginaceae). *Botanic Gardens Micropropagation News* 1(6):72-74.

Limonium preauxii* (Webb & Berth.) O. Kuntze*PLUMBAGINACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Germination, dormancy

Bibliography:

Bramwell, D. and Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las Islas Canarias. *Bot. Macar.* 10:13-17 (1982).

Marrero, A. and Suárez, C. (1990) Notas corológicas de especies en peligro. *Bot. Macar.* 18:86-88.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Limonium redivivum (Svent.) Kunkel & Sund.

PLUMBAGINACEAE

Status: V
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Sventenius, E. (1954) *Specilegium canariense*. *Bol. Inst. Nac. Invest. Agronom.* 30:30-42.

Limonium rumicifolium (Svent) Kunkel & Sund.

PLUMBAGINACEAE

Status: R

Distribution: Canary Islands

Researcher: M.F. Fay *et al.*

Institution: Micropropagation Unit, Royal Botanic Gardens

Address: Kew, Richmond, Surrey TW9 3AB, Great Britain

Phone: 44 81 3325517

Fax: 44 81 3325524

Area of study: * Micropropagation

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Limonium spectabile (Svent.) Kunkel & Sund.

PLUMBAGINACEAE

Status: E
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
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Area of study: * Micropropagation

Researcher: J.Y. Lesouef *et al.*
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Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Fay, M.F. (in press) Micropropagation of plants from the Canary Islands. *Bol. Mus. Mun. Funchal* Suppl. 2.

Kunkel, G. and Sunding, P. (1967) Enumeration of the species of *Limonium* Mill. (Plumbaginaceae) in the Canary Islands with nomenclatural notes. *Cuad. Bot. Canar.* 2:9-18.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Sventenius, E. (1949) Plantas nuevas o poco conocidas de Tenerife. *Bol. Inst. Nac. Invest. Agronóm.* 20(111):197-209.

Limonium todaroanum* Raimondo & Pign.*PLUMBAGINACEAE**

Status: V**Distribution:** Sicily**Researcher:** L. Gianguzzi**Institution:** Dipartimento di Scienze Botaniche**Address:** Via Archirafi 38

I-90123 Palermo, Italy

Phone: 39 91 6161493

Area of study:

- * Autecology
- * Distribution
- * Propagation
- * *Ex situ* and *in situ* conservation

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Raimondo, F.M. and Pignatti, S. (1986) Una nuova specie di *Limonium* (Plumbaginaceae) della Sicilia. *Webbia* 39(2):417-421.

Linaria tursica Valdés & Cabezudo**SCROPHULARIACEAE**

- Status:** V
Distribution: Spain
- Researcher:** B. Valdés and Z. Díaz Lifante
Institution: Departamento de Biología Vegetal y Ecología
 Facultad de Biología, Universidad de Sevilla.
Address: Avda. Reina Mercedes s/n
 E-41080 Sevilla, Spain
- Area of study:**
- * Germination, dormancy
 - * Growth, development
 - * Flowering, fruit development, pollination
 - * Reproduction
 - * Dispersal
 - * Propagation methods
 - * Phenology
 - * Demography
 - * Ecology

Bibliography:

- Cabezudo, B. (1981) Nota sobre *Linaria tursica* Valdés & Cabezudo y *Linaria donyanae* Valdés-Bermejo et al. *Trab. Monogr. Dept. Bot. Málaga* 2:131-132.
- Costa, M. Castroviejo, S. Rivas-Martínez, S. and Valdés-Bermejo, E. (1978) Sobre la vegetación de terófitos efímeros de las dunas fósiles del Coto de Doñana. *Col. Phytosoc. (Lille)* 6:101-108.
- Rivas-Martínez, S. Costa, M. Castroviejo, S. and Valdés-Bermejo, E. (1980) Vegetación de Doñana (Huelva, España). *Lazaroa* 2:5-189.
- Valdés, B. (1982) *Linaria tursica* Valdés & Cabezudo. In: B. Valdés & al., *Herb. Univ. Hisp., Fl-Select., Cent.* 1:23.
- Valdés, B. (1987) *Linaria tursica* Valdés & Cabezudo (Scrophulariaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp.185-186.
- Valdés, B. and Cabezudo, B. (1977) *Linaria tursica* Valdés & Cabezudo, *sp. nov. Lagasalia* 7:9-12.

Lithodora nitida* (Ern.) R. Fernandes*BORAGINACEAE**

Status: E
Distribution: Spain
Researcher: J. Pedrola and J. Caujape
Institution: Est. Inter. Biol. Mediterránea
Address: Jardín Botánico "Marimurtra"
 E-17300 Blanes, Girona, Spain
Phone: 34 72 330826

Area of study: * Genetics

Current research:

Morphologic variability and genetics of the heterostyly of *L. nitida* and *L. oleifolia*.

Genetic distance of two Spanish endemisms from northern and southern Spain: *L. oleifolia* and *L. nitida*.

Researcher: H. Ern and I. Hagemann
Institution: Botanischer Garten und Botanisches Museum
 Berlin-Dahlem
Address: Königin-Luise-Str. 6-8
 D-14191 Berlin, Germany
Phone: 030 83006143

Area of study: * Anatomy
 * Genetics
 * Germination, dormancy
 * Growth, development
 * Flowering, fruit development, pollination
 * Reproduction
 * Dispersal
 * Propagation methods
 * Phenology

Bibliography:

- Brummit, R.K. and Fernández, R. (1971) In "Short Notes" *Bot.J.Linn.Soc.* 64(1):73.
 Ern, H. (1968) Zwei neue Unterarten von Pflanzen der Iberischen Halbinsel. *Senckenbergiana biol.* 49:79-84.
 Ern, H. Martínez-Parras, J.M. Molero, J. and Peinado, M. (1987) *Lithodora nitida* (Ern) R. Fernandes (Boraginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 416-417.

Lithodora oleifolia* (Lapeyr.) Griseb.*BORAGINACEAE**

Status: R
Distribution: Spain

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
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Area of study: * Culture techniques

Researcher: J. Pedrola and J. Caujape
Institution: Est. Inter. Biol. Mediterránea
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 E-17300 Blanes, Girona, Spain
Phone: 34 72 330826

Area of study: * Genetics
 * Reproduction

Current research:

Morphologic variability and genetics of the heterostile of *L. nitida* and *L. oleifolia*.

Genetic distance of two Spanish endemisms from northern and southern Spain: *L. oleifolia* and *L. nitida*.

Reproduction of genus *Lithodora* in the Iberian Peninsula.

Bibliography:

Bou, J. (1987) *Lithodora oleifolia* (Lapeyr.) Griseb (Boraginaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 418-419.

Bolós, O. de (1964) Sobre el *Lithospermum oleifolium* Lap. *Collect. Bot.* 6(3):475-477.

Cadevall-Diars, J. (1932) *Flora de Catalunya*. 4:151-152.

Fernandes, R. (1972) *Lithodora*. In: Tutin *et al.* (Eds.) *Flora Europaea*. Cambridge University Press 3:88-89.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Lithodora rosmarinifolia (Ten.) Johnston**BORAGINACEAE**

Status: R
Distribution: Italy and Sicily
Researcher: V. La Valva, M. Ricciardi, G. Caputo and R. Nazzaro
Institution: Dip. Biol. Vegetale
Address: via Foria 223
I-80139 Napoli, Italy
Phone: 39 81 440681
Fax: 39 81 450165
Area of study: * Taxonomy
* Distribution

Bibliography:

AA.VV. (1986) *Atlante Iconografico delle Piante Endemiche o Rare della Riserva Naturale Orientata dello Zingaro (Sicilia)*. Azienda Foreste Demaniali della Regione Siciliana.

Brullo, S. and Marceno', C. (1979) *Dianthion rupicolae* nouvelle alliance sud-tyrrhenienne des *Asplenietalia glandulosi*. *Doc. Phytosoc.* 4:131-146.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

Francini, E. and Messeri, A. (1955) L'isola di Marettimo nell'arcipelago delle Egadi e la sua vegetazione. *Webbia* 11:607-846.

Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 1. Tip Savini-Mercuri, Camerino (schede 19-4 Monte Pellegrino; 19-11 Monte Cofano).

Gruppo Lavoro Conservazione Natura S.B.I. (1979) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 2. Tip Savini-Mercuri, Camerino (schede 19-24 Capo Gallo; 19-25 Rupi di Catalfano e Capo Zafferana).

La Valva, V. (1981-1982) Piante endemiche o rare dell'Italia meridionale: 1-2 *Delpinoa* n.s., 23-24: 115-128.

La Valva, V. Ricciardi, M. Caputo, G. and Nazzaro, R. La flora della Penisola Sorrentina. *Delpinoa* (in press).

Lotus azoricus P.W. Ball**FABACEAE**

Status: E
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: G.B. Maciel
Institution: Universidade dos Açores, Dpto. de Biologia
Address: Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal

Fax: 351 96 653 455

Area of study: * Germination, dormancy

Bibliography:

- Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.
- Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.
- Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).
- Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Lotus berthelotii* Masferrer*FABACEAE**

Status: E
Distribution: Canary Islands

Researcher: R.W. Anson
Institution: City of Liverpool Botanic Gardens
Address: Liverpool, Great Britain

Area of study: * Propagation methods
* Culture techniques

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit, Royal Botanic Gardens
Address: Kew, Richmond, Surrey TW9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Current research:

Induction of callus cultures for possible somaclonal variation studies.

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: C. Ortega
Institution: Jardín Botánico "Viera y Clavijo"
Address: Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Micropropagation

Researcher: J.A. Rodríguez et al.
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
 E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Culture techniques
 * Germination, dormancy

Bibliography:

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

Brand, A. (1898) Monographie der Gattung Lotus. *Bot. Jahrb.* 25:166-232.

Calero, A. and Santos, A. (1988) Reproductive biology of threatened species in the flora of the Canary Islands, Spain. *Lagascalia* 15 (Suppl.):661-664.

Calero, A. and Santos, A. (1984) *Lotus berthelotii* Mas. X L. eremiticus Santos: nuevo híbrido para las especies de *Lotus* en las Islas Canarias. *Comunicaciones de la III reunión de ornamentales*. Jornadas técnicas. Sociedad Española de Ciencias Hortícolas. pp. 85-89.

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Hooker, J.D. (1884) *Lotus peliorhynchus* (native of Tenerife) *Curtis's Botanical Magazine*. 110:Tab. 6733.

Kunkel, G. (1974) Notes on the genus *Heinekenia* (Fabaceae) from the Canary Islands. *Cuad. Bot. Canar.* 22:7-10.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Olesen, J.M. (1985) The Macaronesian bird-flower element and its relation to bird and bee opportunists. *Bot. J. Linn. Soc.* 91:395-414.

Ortega, C. (1982) Micropropagación de *Lotus berthelotii* Masf. (Leguminosae), un endemismo canario en peligro de extinción. *Bot. Macar.* 10:19-25.

Owens, S.J. (1985) Seed set in *Lotus berthelotii* Masferrer. *Ann. Bot.* 6:811-814.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Waffenschmidt, H. (1984) Wie bewahren sich *Lotus berthelotii*? *Gruener Markt Gartencenter und Freizeit*. 25: 284.

Lotus campylocladus* Webb & Berth.*FABACEAE**

Status: R
Distribution: Canary Islands

Researcher: J. Real and A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Culture techniques

Current research:

Study on the germinative behaviour of some endemisms of the Supracanary Floor.

Bibliography:

- Lecuona, R.M. La Serna, I. Méndez, B. and Wildpret, W. (1988) Contribution to the palynological study of the endemic Macaronesian flora. *Pollen Spores*. 29:359-390.
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- Rodríguez, J.L. Rodríguez, J.C. and Ramos, M.T. (1988) Autumn diet selectivity of the Corsica mouflon *Ovis ammon musimon* Schreber 1782 on Tenerife Canary Islands Spain. *Mammalia* 52:475-482.

Lotus kunkelii* (Esteve) Bramwell & Davis*FABACEAE**

Status: E**Distribution:** Canary Islands**Researcher:** D. Bramwell**Institution:** Jardín Botánico "Viera y Clavijo"**Address:** Aptdo. Correos 14 de Tafira Alta

E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Micropropagation**Researcher:** J.Y. Lesouef *et al.***Institution:** Conservatoire Botanique de Brest**Address:** 52 Allée du Bot

F-29200 Brest, France

Phone: 33 98 418895**Area of study:** * Culture techniques**Bibliography:**

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

Bramwell, D. and Davis, D.H. (1972) A contribution to the study of *Lotus* L. on Gran Canaria. *Cuad. Bot. Canar.* 16:51-54.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Ortega, J. (1976) Citogenética de *Lotus* en Macaronesia I. Números de cromosomas. *Bot. Macar.* 1: 17-24.

Lotus maculatus* Breitf.*FABACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: J.A. Rodríguez *et al.*
Institution: Jardín de Aclimatación de la Orotava, CITA
Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Germination, dormancy

Bibliography:

Breitfeld, C. (1973) *Lotus maculatus*, eine bisher unbeschriebene Art von Tenerife. *Cuad. Bot. Can.* 17:27-31.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rodriguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Lugoa revoluta* DC.*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: R. Febles
Institution: Jardín Botánico "Viera y Clavijo"
Address: Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Genetics

Researcher: J.Y. Lesouef *et al.*
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Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

- Candolle, A.P. de (1838) *Prodromus systematis naturalis regni vegetabilis*. VI:14.
- Febles, R. (1990) *Análisis citogenético y evolutivo en las especies endémicas de los géneros Gonospermum Less., Lugoa D.C. y Tanacetum L. (Compositae: Anthemideae) de las Islas Canarias*. Doctoral Thesis, Madrid.
- Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Lysimachia minoricensis Rodr.**PRIMULACEAE**

Status: Ex
Distribution: (Balearic Islands)

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: J. Pedrola *et al.*
Institution: Est. Inter. Biol. Mediterránea
Address: Jardín Botánico "Marimurtra"
E-17300 Blanes, Girona, Spain
Phone: 34 72 330826

Area of study: * Genetic conservation

Current research:

Genetic conservation of an extinct endemism: *Lysimachia minoricensis*.

Bibliography:

Bolós, A. (1962) Algunas novedades florísticas. *Collect. Bot.* 6(10):357-362.

Gómez-Campo, C. (1987) *Lysimachia minoricens* Rodr. (Primulaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 422-423.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maytenus canariensis (Loes.) Kunkel & Sunding**CELASTRACEAE**

Status: R
Distribution: Canary Islands
Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Delgado, J.C. (1986) *Propagación de Arboles Canarios*. Exmo. Cabildo Insular de Gran Canaria.

González, A.G. Jiménez, I.A. and Ravelo, A.G. (1992) Triterpenes from *Maytenus canariensis* and synthesis of a derivative from betulin. *Phytochemistry* 31:2069-2072.

González, A.G. Jiménez, I.A. Ravelo, A.G. and Bazzocchi, I.L. (1990) Beta agarofuran sesquiterpenes from *Maytenus canariensis*. *Phytochemistry* 29:2577-2580.

González, A.G. Jiménez, I.A. Ravelo, A.G. Belles, X. and Piulachs, M.D. (1992) Antifeedant activity of Dihydro-Beta-Agarofuran sesquiterpenes from Celastraceae against *Spodoptera littoralis*. *Biochem. Syst. Ecol.* 20:311-315.

González, A.G. Jiménez, I.A. Ravelo, A.G. Luis, J.G. and Bazzocchi, I.L. (1989) Beta agarofuran sesquiterpene esters from *Maytenus canariensis*. *Phytochemistry* 28:173-176.

González, A.G. Jiménez, I.A. Ravelo, A.G. Sazatornil, J.G. and Bazzocchi, I.L. (1993) New sesquiterpenes with antifeedant activity from *Maytenus canariensis* Celastraceae. *Tetrahedron* 49:697-702.

González, A.G. López, I. Ferro, E.A. Ravelo, A.G. Gutierrez, J. and Aguilar, M. A. (1986) Taxonomy and Chemotaxonomy of some species of Celastraceae. *Biochem. Syst. Ecol.* 14:479-480.

Santos, A. (1980) Contribución al conocimiento de la flora y vegetación de la isla de Hierro (I. Canarias). *Fund. Juan March. Ser. Univ.* 114.

Santos, A. (1983) *Vegetación y Flora de la Isla de La Palma*. Ed. Interinsular Canaria. Santa Cruz de Tenerife.

Medicago strasseri* Greuter, Matthäs & Risse*FABACEAE**

Status: R**Distribution:** Crete**Researcher:** J.L. Ceresuela**Institution:** Dpto. Biología Vegetal, E.T.S. Ingenieros Agrónomos, Universidad Politécnica de Madrid.**Address:** Ciudad Universitaria, E-28040 Madrid, Spain**Phone:** 34 1 3365657**Fax:** 34 1 3365656

Area of study:

- * Germination, dormancy
- * Growth, development
- * Flowering, fruit development, pollination
- * Reproduction
- * Dispersal
- * Propagation methods
- * Micropropagation
- * Culture techniques
- * Phenology
- * Ecology

Current research:

Karyology and propagation of *Medicago strasseri*

Researcher: W. Greuter and R. Vogt**Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem**Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany

Area of study:

- * Genetics
- * Germination, dormancy
- * Growth, development
- * Flowering, fruit development, pollination
- * Reproduction
- * Propagation methods

Bibliography:

Ceresuela, J.L. (1991) La alfalfa leñosa de Creta (*Medicago strasseri* Matthäs, Greuter & Risse) Leguminosae, primeros datos acerca de su potencial interés forrajero. XXXI Reunión Científica Sociedad Española para el Estudio de los Pastos, Murcia.

Pérez-García, F. Ceresuela, J.L. González, A. E. and Aguinagalde, I. (1992) Flavonoids in seed coats of *Medicago arborea* and *M. strasseri* (Leguminosae): Ecophysiological aspects. *J. Basic Microbiol.* 32:241-248.

Strasser, W. (1988) *Medicago strasseri* new record and *Draba strasseri* new record two new species from Greece. *Mitt. Naturforsch. Ges. Bern.* 45:168-171.

Melanoselinum decipiens* (Schrader & Wendl.) Hoffmann*APIACEAE**

Status: R
Distribution: Azores, Madeira
Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: J.P. Reduron
Institution: Parc Zoologique et Botanic de Mulhouse
Address: Mulhouse, France

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest.* Brest. 32 pp.

Myrica rivasmartinezii A. Santos**MYRICACEAE**

Status: E
Distribution: Canary Islands

Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Bañares, A. Lecuona, R.M. La Serna, I. and Beltran, E. (1985) Sobre la presencia de *Myrica rivas-martinezii* Santos en la isla de Gomera (I. Canarias). Estudio corológico, ecológico y palinológico. *Vieraea* 14 (1-2): 41-55.

Romero, P. (1990) Aportaciones a la flora vascular de La Palma (Islas Canarias). *Vieraea* 18: 3-9.

Santos, A. (1980) *Contribución al conocimiento de la flora y vegetación de la isla de El Hierro (I. Canarias)*. Fund. Juan March. Serie Universitaria, n. 114. Madrid.

Nanantea perpusilla* (Loisel.) DC.*ASTERACEAE**

Status: V
Distribution: Corsica and Sardinia
Researcher: L. Olivier *et al.*
Institution: Conservatoire Botanique National de Porquerolles
Address: Castel Sainte-Claire
Rue du Castel Ste. Claire
F-83400 Hyeres, France
Phone: 33 94 653298
Fax: 33 94 658483
Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques

Bibliography:

Brullo, S. (1985) Sur la syntaxonomie des pelouses therophytiques des territoires steppiques de l'Europe sud-occidentale. *Doc. Phytosoc.* 9:1-17.

Cesaraccio, G. Lanza, B. and Ricceri, C. (1984) Riconferma di *Silene velutina* Pourret per la flora italiana e contributi floristici per l'Arcipelago della Maddalena (Sardegna Nord-Orientale). *Inform. Bot. Ital.* 16:197-199.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Corrias, B. (1977) Ad floram italicam notulae taxonomicae et geobotanicae. 21 *Nanantea perpusilla* (Loisel.) DC. *Webbia* 31:43-48.

Corrias, B. (1981) Le piante endemiche della Sardegna:92-93. *Boll. Soc. Sarda Sci. Nat.* 20:275-286.

Desole, L. (1959) Presenza di *Nanantea perpusilla* DC. nella Penisola di Stintino (Sardegna). Osservazioni critiche sulla distribuzione e sulla ecologia della specie. *Webbia* 15:111-139.

Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 1. Tip. Savini-Mercuri, Camerino (scheda 20-30 Capo del Falcone).

Gruppo Lavoro Conservazione Natura S.B.I. (1971) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 2. Tip. Savini-Mercuri, Camerino (scheda 20-52 Isola di San Pietro).

Narcissus bugei (Fdez. Casas) Fdez. Casas

AMARYLLIDACEAE

Status: V
Distribution: Spain

Researcher: M. Clemente, M.A. García, P. Contreras and E. Hernández
Institution: Dpto. de Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Conservation

Current research:

Cartography of the populations, estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

- Fernández Casas, J. (1986) *Narcissus bugei* new combination. *Lagascalia* 14:176.
- Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Narcissus longispathus PugsleyAMARYLLIDACEAE

Status:	R
Distribution:	Spain
Researcher:	M. Clemente, M.A. García, P. Contreras and E. Hernández
Institution:	Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address:	Avda. de Linneo s/n E-14004 Córdoba, Spain
Phone:	34 57 200077 / 200018
Fax:	34 57 295333
Area of study:	* Micropropagation * Conservation

Current research:

Estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Blanca, G. (1987) *Narcissus longispathus* Pugsley (Amaryllidaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 442-443.

Clemente, M. (1991) The micropropagation unit at the Cordoba Botanic Garden, Spain. *Botanic Gardens Micropropagation News* 1(3):30-32

Fernandes, A. (1951) Sur la phylogénie des espèces du genre *Narcissus* L. *Bol. Soc. Broter*. ser. 2 (Coimbra) 25:113-190.

Fernández Casas, J. (1986) *Narcissus bugei* new combination. *Lagascalia*. 14:176.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Narcissus nevadensis Pugsley**AMARYLLIDACEAE**

Status: E
Distribution: Spain

Researcher: M. Clemente, M.A. García, P. Contreras and E. Hernández
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Micropropagation
* Conservation

Current research:

Estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Clemente, M. (1991) The micropropagation unit at the Cordoba Botanic Garden, Spain. *Botanic Gardens Micropropagation News* 1(3):30-32

Fernández-Casas, J. (1983) Materiales para una monografía de *Narcissus* I. *Fontqueria* 3:33.

Fernández-Casas, J. and Muñoz-Garmendia, F. (1978) *Exsiccata quaedam a nobis nuper distributa*, I. Madrid.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Molero, J. Martínez-Parras, J.M. and Pérez-Raya, F. (1987) *Narcissus nevadensis* Pugsley (Amaryllidaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 446-447.

Pugsley, H.W. (1933) A monograph of *Narcissus*. Subgenus Ajax. *Jour. Roy. Hort. Soc.* 58:17-93.

Narcissus tortifolius Fdez. Casas**AMARYLLIDACEAE**

Status: R**Distribution:** Spain**Researcher:** M. Clemente, M.A. García, P. Contreras and E. Hernández**Institution:** Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba**Address:** Avda. de Linneo s/n
E-14004 Córdoba, Spain**Phone:** 34 57 200077 / 200018**Fax:** 34 57 295333**Area of study:** * Micropropagation

* Conservation

Current research:

Estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Barra, A. and López-González, G. (1982) Una nueva localidad para *Narcissus tortifolius* Fdez. Casas. *Anal. Jard. Bot. Madrid* 39(1):212.

Bastida, J. Condina, C. Viladomat, F. Rubiralta, M. Quirion, J.C. and Husson, H.P. (1990) 9-O Demethyl-2-Alpha-Hydroxyhomolycorine an alkaloid from *Narcissus tortifolius*. *Phytochemistry* 29:2683-2684.

Clemente, M. (1991) The micropropagation unit at the Cordoba Botanic Garden, Spain. *Botanic Gardens Micropropagation News* 1(3):30-32

Codina, C. Viladomat, F. Bastida, J. Rubiralta, M. and Quirion, J.C. (1990) A heterodimer alkaloid from *Narcissus pallidiflorus*. *Phytochemistry* 29:2685-2687.

Fernández-Casas, J. (1977) Recuentos cromosómicos en plantas vasculares españolas. *Saussurea* 8:33-55.

Fernández-Casas, J. (1978) Recuentos cromosómicos en plantas vasculares españolas. *Saussurea* 9:45-50.

Fernández-Casas, J. (1987) *Narcissus tortifolius* Fdez. Casas (Amaryllidaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 448-449.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

Naufraga balearica Const. & Cannon**APIACEAE**

Status: E
Distribution: Balearic Islands , Corsica
Researcher: M. Clemente, P. Contreras, A. Pujadas and E. Hernández
Institution: Dpto. Ciencias y Recursos Agrícolas y Forestales, Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Micropropagation

Researcher: J. L. Gradaille
Institution: Jardín Botánico de Sóller
Museo Balear de Ciencias Naturales
Address: Aptdo. Correos 55
E-07100 Sóller, Mallorca, Spain

Area of study: * Propagation methods
* Culture techniques
* Conservation
* Re-introduction

Researcher: A. Ibars
Institution: Dpto. Biología Vegetal
Facultad de Farmacia, Universitat de Valencia
Address: Avda. Vicente Andrés Estellés s/n
E-46100 Burjassot, Valencia, Spain

Area of study: * Anatomy

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
29200 Brest, France
Phone: 98 418895

Area of study: * Culture techniques

Researcher: J.P. Reduron

Institution: Parc Zoologique et Botanic de Mulhouse
Address: Mulhouse, France

Area of study: * Propagation methods
* Culture techniques

Researcher: J.A. Rosselló
Institution: Jardín Botánico de Córdoba
Address: Avda. de Linneo s/n
E-14004 Córdoba, Spain
Phone: 34 57 200077 / 200018
Fax: 34 57 295333

Area of study: * Anatomy

Bibliography:

Constance, L. y Cannon, F.M. (1967) *Naufraga*, a new genus of Umbelliferae. *Feddes Repert.*, 74:1-4.

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Duvigneaud, J. (1969) Ecologie de *Naufraga balearica* Const. et Cannon (Umbelliflorae). *Bull. Soc. Roy. Bel.*, 103:31.

Ibars, A. and Rosselló, J.A. (1990) Características histológicas de endemismos baleáricos. I. Umbelíferas. *II Jornadas de Taxonomía Vegetal*, Madrid.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Llorens, L. (1987) *Naufraga balearica* Const. & Cannon (Apiaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 450-451.

Snogerup, S. (1985) The Mediterranean Islands. In: C. Gómez-Campo (Ed.) *Plant Conservation in the Mediterranean Area*. Dr. W. Junk, Dordrecht, pp. 159-173.

Nepeta teydea Webb & Berth.

LAMIACEAE

Status: R
Distribution: Canary Islands

Researcher: J. Real and A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Propagation methods
* Culture techniques
* Phenology

Current research:

Study of the germinative behaviour of some endemisms of the Supracanary Floor.

Bibliography:

Rodríguez, J.L. Rodríguez, J.C. and Ramos, M.T. (1988) Autumn diet selectivity of the Corsica mouflon *Ovis ammon musimon* Schreber 1782 on Tenerife Canary Islands Spain. *Mammalia* 52:475-482.

Velasco Negueruela, A. Pérez Alonso, M.J. and Buades Rodríguez, A. (1989) Essential oil analysis of *Nepeta teydea* Webb. and Berth. *Flavour Fragrance J.* 4:197-200.

Ocotea foetens (Aiton) Benth. & Hook. f.

LAURACEAE

Status: V
Distribution: Canary Islands, Madeira
Researcher: A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898
Area of study: * Propagation methods
* Culture techniques

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Nobrega, M.D. (1990) Contribution to the flora of mosses of Madeira. *Bol. Mus. Munic. Funchal.* 42:17-38.

Papaver rupifragum* Boiss. & Reuter*PAPAVERACEAE**

- Status:** R
Distribution: Spain, Morocco
- Researcher:** S. Silvestre
Institution: Dpto. Biología Vegetal y Ecología, Facultad de Farmacia, Universidad de Sevilla.
Address: Prof. García González, s/n.
E-41012 Sevilla, Spain.
Phone: 34 5 4556787
Fax: 34 5 4233765
- Area of study:**
- * Germination, dormancy
 - * Growth, development
 - * Flowering, fruit development, pollination
 - * Reproduction
 - * Dispersal
 - * Phenology
 - * Demography, population dynamics

Bibliography:

- Silvestre, S. (1985) Chromosome numbers for Spanish flora 353-362. *Lagascalía*. 12:298-304.

Pericallis hadrosoma (Svent.) B. Nord.

ASTERACEAE

Status: E

Distribution: Canary Islands

Researcher: D. Bramwell et al.

Institution: Jardín Botánico "Viera y Clavijo"

Address: Aptdo. Correos 14 de Tafira Alta

E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Propagation methods

* Micropropagation

* Culture techniques

Bibliography:

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

Ortega, C. and González, C. (1990) *Senecio hadrosomus*: cultivos *in vitro* y reintroducción en su hábitat natural. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 161-162.

Suárez, C. (1984) Aportación a la distribución y ecología de *Senecio appendiculatus* (L. fil.) var. *Preauxiana* Sch. Bip. y *Senecio hadrosomus* Svent. en Gran Canaria. *Bot. Mac.* 10(1982):85-92.

Sventenius, E. (1950) *Specilegium canariense* Centro de las Islas Canarias, I.N.I.A. Jardín de Aclimatación de La Orotava.

Pericallis hansenii (Kunkel) Sund.

ASTERACEAE

Status: E
Distribution: Canary Islands

Researcher: A. Bañares and J. Real
Institution: Centro Ecológico de La Laguna, ICONA
Address: Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898

Area of study: * Germination, dormancy
* Flowering, fruit development, pollination
* Reproduction
* Propagation methods
* Culture techniques
* Phenology
* Demography, population dynamics
* Ecology
* Reintroduction

Current research:

Genetic recovery of the threatened flora of the Garajonay National Park.

Bibliography:

Bañares, A. and Beltrán, E. (1985) Nuevas aportaciones a la flora vascular de la Gomera I. Canarias. Notas corológicas-ecológicas. *Vieraea* 15(1-2):41-55

Bañares, A. (1990) La flora amenazada de los Parques Nacionales Canarios con especial referencia al P. N. de Garajonay. In: *Conservation Techniques in Botanic Gardens*. pp. 87-90. Ed. Koeltz Sc. Books.

Bañares, A. (1990) Programa de recuperación de la flora amenazada del P. N. de Garajonay. In: Pérez de Paz (Ed.), *Garajonay, Patrimonio de la Humanidad*. ICONA, Madrid.

Kunkel, G. (1975) Novedades y táxones críticos en la flora de Gomera. *Cuad. Bot. Canar.* 25:17-49.

Petagnaea gussonei* (Spreng.) Rauschert*APIACEAE**

Status: V
Distribution: Sicily

Researcher: L. Gianguzzi
Institution: Dipartimento di Scienze Botaniche
Address: Via Archirafi 38
I-90123 Palermo, Italy
Phone: 39 91 6161493

Area of study: * Anatomy
* Autecology
* Distribution
* *Ex situ* and *in situ* conservation

Bibliography:

Brullo, S., Grillo, M. and Guglielmo, A. (1976) Osservazioni ecologiche preliminary su *Petagnia saniculifolia* Guss., raro endemismo siculo. *Giorn. Bot. Ital.* 110(4-5): 293-296.

Colombo, P.M., Melati, R., Scialabba, A. and Raimondo, F.M. (1994) Comparative anatomy and development in *Petagnia*, *Lereschia* and *Sanicula*. *Abstr. VII OPTIMA Meeting, Bulgaria 18-30 July 1993*. p. 172.

Petrocoptis crassifolia Rouy**CARYOPHYLLACEAE**

Status: R
Distribution: Spain

Researcher: B. García-González
Institution: Instituto Pirenaico de Ecología (C.S.I.C.)
Address: Apdo. 64
E-22700 Jaca, Huesca Spain
Phone: 34 74 361441
Fax: 34 74 363222

Area of study:

- * Flowering, fruit development, pollination
- * Dispersal
- * Phenology
- * Demography, population dynamics
- * Ecology

Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
Dpto. de Biología Vegetal
Universitat de Valencia
Address: E-46100 Burjassot, Valencia, Spain
Phone: 96 3864300 Ext. 3238
Fax: 96 3864372

Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994).

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995).

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993).

Bibliography:

Fernández-Casas, J. (1975) De flora hispanica II. *Candollea* 30:286.

Fernández-González, D. Díaz González, T.E. Fombella Blanco, M.A. and Valencia Barrera, R.M. (1988) Contribution to the palynological study of the genus *Petrocoptis* A. Br. Caryophyllaceae. *Lagascalia* 15 (Suppl):213-220.

García, M.B. Antor, R.J. and Villar, L. (1992) Are the flowers of *Petrocoptis* actinomorphic? Influence of the position of the flower and pollinators on symmetry. *An. Jard. Bot. Madr.* 50:116-117.

Montserrat, G. (1987) *Petrocoptis crassifolia* Rouy (Caryophyllaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 460-461.

Montserrat, P. (1979) Biogeographie de la graine des *Petrocoptis*. *Webbia* 34(1):523-527.

Montserrat, P. and Montserrat, J.M. (1978) El *Petrocoptis crassifolia*, su variabilidad y distribución. *Doc. Phytosociol.* 2:321-327.

Rothmaler, W. (1942) Monographie der gattung *Petrocoptis* A. Br. *Bot. Jahrb.* 72:117-130.

Petrocoptis grandiflora Rothm.**CARYOPHYLLACEAE**

Status: V
Distribution: Spain

Researcher: J. Guitian, J.M. Sanchez-Fernández and M. Rodriguez-Guitian
Institution: Laboratorio de Botánica, Facultad de Farmacia
Universidad de Santiago
Address: E-15706 Santiago de Compostela, Spain
Phone: 34 81 595280

Area of study: * Germination, dormancy
* Flowering, fruit development, pollination
* Reproduction
* Dispersal
* Phenology

Current research:

Data on reproductive biology of *Petrocoptis grandiflora*.

Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
Dpto. de Biología Vegetal
Universitat de Valencia
Address: E-46100 Burjassot, Valencia, Spain
Phone: 96 3864300 Ext. 3238
Fax: 96 3864372

Area of study: * Anatomy
* Genetics
* Metabolism, enzymes
* Flowering, fruit development, pollination
* Reproduction
* Experimental hybridization
* Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

- Fernández-Areces, M.P. Penas-Merino, A. and Díaz-González, T.E. (1983) Aportaciones al conocimiento de las comunidades vegetales de los paredones rocosos calizos de la Cordillera Cantábrica (revisión de la alianza *Saxifragion trifurcato canaliculatae*; clase *Asplenietea trichomanis*). *Anal.Jard.Bot. Madrid* 40(1):213-235.
- Fernández González, D. Díaz González, T.E. Fombella Blanco, M.A. and Valencia Barrera, R.M. (1988) Contribution to the palynological study of the genus *Petrocoptis* A. Br. Caryophyllaceae. *Lagascalia* 15 (Suppl):213-220.
- Ferreras, J.M. Diez, J.M. Iglesias, R. Merino, M.J. and Girbes, T. (1989) Presence of translational inhibitory activity in partially purified extracts from *Petrocoptis* species. *Cell. Mol. Biol.* 35:89-96.
- Giménez, M.A. (1976) *Estudio de comunidades vegetales naturales en la comarca de El Bierzo*. Doctoral Thesis. Facultad de Farmacia. Santiago de Compostela. 379 pp.
- Guitián, J. and Sánchez, J.M. (1992) Flowering phenology and fruit set of *Petrocoptis grandiflora* Caryophyllaceae. *Int. J. Plant Sci.* 153:409-412.
- Izco, J. and Guitián, P. (1987) *Petrocoptis grandiflora* Rothm. (Caryophyllaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 464-465.
- Merxmüller, H. and Grau, J. (1968) Ergazicende studien an *Petrocoptis* (Caryophyllaceae). *Collect.Bot.* 7(2):787-797.
- Rothmaler, W. (1935) *Plantae novae vel criticae Peninsulae Ibericae*. *Cavanillesia* 7:111-121.
- Silva Pando, F.J. Rodríguez García, V. García Martínez, X.R. and Valdes Bermejo, E. (1987) Contributions to the flora of Galicia Spain II. *Bol. Soc. Broteriana*. 60:29-68.

Petrocoptis guarensis Fernández Casas**CARYOPHYLLACEAE**

Status: R
Distribution: Spain

Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
Dpto. de Biologia Vegetal
Universitat de Valencia
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Fax: 96 3864372

Area of study: * Anatomy
* Genetics
* Metabolism, enzymes
* Flowering, fruit development, pollination
* Reproduction
* Experimental hybridization
* Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

Fernández-Casas, J. (1973) Estudios sobre el género *Petrocoptis*. *Cuad. Cienc. Biol.* 2(1):43-45.

Montserrat, P. (1979) Biogeographie de la graine des *Petrocoptis*. *Webbia* 34(1):523-527.

Montserrat, P. and Montserrat, J.M. (1978) El *Petrocoptis crassifolia*, su variabilidad y distribución. *Doc. Phytosociol.* 2:321-328.

Petrocoptis hispanica* (Willk.) Pau*CARYOPHYLLACEAE**

Status: R**Distribution:** Spain**Researcher:** M. Mayol**Institution:** Facultat de Ciències Biològiques. Botànica
Dpto. de Biologia Vegetal
Universitat de Valencia**Address:** E-46100 Burjassot, Valencia, Spain**Phone:** 96 3864300 Ext. 3238**Fax:** 96 3864372**Area of study:**

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

None

Petrocoptis montserratii* Fernández Casas*CARYOPHYLLACEAE**

Status: V
Distribution: Spain

Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
Dpto. de Biología Vegetal
Universitat de Valencia
Address: E-46100 Burjassot, Valencia, Spain
Phone: 96 3864300 Ext. 3238
Fax: 96 3864372

Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

None

Petrocoptis montsiciana* O. Bolós & Rivas-Martínez*CARYOPHYLLACEAE**

Status: V
Distribution: Spain

Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
 Dpto. de Biologia Vegetal
 Universitat de Valencia
Address: E-46100 Burjassot, Valencia, Spain
Phone: 96 3864300 Ext. 3238
Fax: 96 3864372

Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

Bolós, O. de (1954) De vegetatione notulae, I. *Collect. Bot.* 4(2):253-286.

Bolós, O. de (1960) La transición entre la depresión del Ebro y los Pirineos en el aspecto geobotánico. *Anal. Inst. Bot. Cavanilles* 18:199-254.

Bolós, O. de and Rivas-Martínez, S. (1970) Comentarios sobre el género *Petrocoptis*. *Petrocoptis montsiciana* sp. nova. *Anal. Inst. Bot. Cavanilles* 26:53-60.

Fernández-Casas, J. (1972) Notas fitosociológicas breves II. *Trab. Dep. Bot. Univ. Granada* 1:21-57.

Fernández-Casas, J. Romo, A.M. and Susanna, A. (1986) Asientos para un Atlas corológico de la Flora occidental. 3. *Fontqueria* 10:14-15.

Montserrat, P. and Monserrat, J.M. (1978) El *Petrocoptis crassifolia*. Su variabilidad y distribución. *Doc. Phytosociol.* 2:321-328.

Romo, A.M. (1987) Flora i vegetació del Montsec. Pre-pirineus catalans. *Inst. Est. Cat., Arx. Secc. Ciènc.*

Romo, A.M. and Fernández-Casas, J. (1987) *Petrocoptis montsiciana* O. Bolós & Riv. Mnez. (Caryophyllaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 468-469.

Petrocoptis pardoi Pau**CARYOPHYLLACEAE**

Status: V
Distribution: Spain
Researcher: M. Mayol
Institution: Facultat de Ciències Biològiques. Botànica
 Dpto. de Biología Vegetal
 Universitat de Valencia
Address: E-46100 Burjassot, Valencia, Spain
Phone: 96 3864300 Ext. 3238
Fax: 96 3864372

Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Researcher: L. Navarro *et al.*
Institution: Dpto. de Cultivo de Tejidos Vegetales, Instituto Valenciano de Investigaciones Agrarias.
Address: Moncada, Valencia, Spain
Area of study: * Micropropagation

Researcher: I. Queral
Institution: Independent
Address: C/ Sarratella 3, 2º - 4ª
 E-12005 Castellón de la Plana, Spain
Phone: 34 64 243489
Area of study:

- * Demography, population dynamics
- * Ecology

Current research:

Threatened endemic plant species from Els Ports and Maestrat.

Bibliography:

Costa, M. *et al.* (1987) *Petrocoptis pardoii* Pau (Caryophyllaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 470-471.

Fernández-Casas, J. (1972) Notas fitosociológicas breves II. *Trab. Dep. Bot. Univ. Granada* 1:21-57.

Fernández-Casas, J. (1974) Notas fitosociológicas breves III. *Cuadernos Cienc. Biol.* 3:91-95.

Fernández González, D. Díaz González, T.E. Fombella Blanco, M.A. and Valencia Barrera, R.M. (1988) Contribution to the palynological study of the genus *Petrocoptis* A. Br. Caryophyllaceae. *Lagascalia* 15 (Suppl):213-220.

Pau, C. (1898) Noticia de algunas plantas curiosas o nuevas. *Act. Soc. Esp. Hist. Nat.* 27:196.

Peris, J.B. Figuerola, R. Costa, M. and Esteso, F. (1990) Some endangered endemic or rare species of interior Valencia Spain. In: J.E. Hernández Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 171-174.

Rothmaler, W. (1941) Monographie der gattung *Petrocoptis* A. Br. *Bot. Jahrb.* 72(1):117-130.

Petrocoptis pseudoviscosa* Fernández Casas*CARYOPHYLLACEAE**

Status: V
Distribution: Spain

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Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

Fernández-Casas, J. (1973) Estudios sobre el género *Petrocoptis* A. Br. *Cuad.Ci. Biol.* 2(1):43-45.

Montserrat, G. (1987) *Petrocoptis pseudoviscosa* Fdez. Casas (Caryophyllaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 472-473.

Montserrat, P. (1979) Biogeographie de la graine des *Petrocoptis*. *Webbia* 34(1):523-527.

Petrocoptis viscosa* Rothm.*CARYOPHYLLACEAE**

Status: V
Distribution: Spain
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Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Current research:

Comparative electrophoretic studies of seed protein and leaf isozyme in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1994)

Hybridization studies in genus *Petrocoptis* A. Braun (Caryophyllaceae) (1995)

Seed morphology and taxonomy in *Petrocoptis* A. Braun (Caryophyllaceae) (1993)

Bibliography:

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Izco, J. and Guitián, P. (1987) *Petrocoptis viscosa* Rothm. (Caryophyllaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 474-475.

Laínz, M. (1963) Aportaciones a la flora cántabro-astur VII. *Bol. Inst. Est. Asturianos* 6:35-81.

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Rothmaler, W. (1935) *Plantae novae vel criticae Peninsulae Ibericae*. *Cavanillesia* 7:111-121.

Picconia azorica* (Tutin) Knobl.*OLEACEAE**

Status: R
Distribution: Azores
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

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Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Pimpinella anagodendron BolleAPIACEAE

Status: V
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Area of study: * Culture techniques

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Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Pimpinella bicknellii* Briq.*APIACEAE**

Status: V
Distribution: Balearic Islands

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Area of study: * Anatomy

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Cardona, M.A. Roselló, J.A. and Pericás, J.J. (1987) *Pimpinella bicknellii* Briq. (Apiaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 476-477.

Ibars, A. and Rosselló, J.A. (1990) Características histológicas de endemismos balearicos. 1. Umbelíferas. *II Jornadas de Taxonomía Vegetal*, Madrid.

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Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Pinguicula nevadensis* (Lindb.) Casper*LENTIBULARIACEAE**

Status: V
Distribution: Spain
Researcher: Christian Breckpot
Institution: ---
Address: Ninovestraat 6
B-9450 Haaltert, Belgium

Area of study: * Ecology

Current research:

On the ecology of *Pinguicula* species in Southern Spain

Bibliography:

Aguilar, J. Varo, J. and Morales, C. (1972) Estudio de las turberas del barranco de S. Juan (Sierra Nevada). *Trab. Dep. Bot. Univ. Granada* 1:7-20.

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Molero, J. Martínez-Parras, J.M. and Casares, M. (1987) *Pinguicula nevadensis* (Lindb.) Casper (Lentibulariaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 480-481.

Pau, C. (1909) Mi segunda visita a Sierra Nevada. *Bol. Soc. Aragon. C. Nat.* 8:104-124 and 130-134.

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Pinguicula vallisneriifolia Webb**LENTIBULARIACEAE**

Status: E
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Area of study: * Ecology

Current research:

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Díaz-González, T.E. Guerra, J. and Nieto, J.M. (1982) Contribución al conocimiento de la clase Adiantetea Br. Bl. 1942 en la Península Ibérica. *Anal. Jard. Bot. Madrid* 38(2):497-506.

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Primula allionii* Loisel.*PRIMULACEAE**

Status: V
Distribution: France, Italy
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Area of study: * Propagation methods
* Culture techniques

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

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Martini, E. (1985) *Primula allionii* Loisel. In: Segnalazioni Floristiche Italiane: 298-303. *Inform. Bot. Ital.* 17:112-116.

Primula palinuri PetagnaPRIMULACEAE

Status: R
Distribution: Italy

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 * Distribution

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Area of study: * Culture techniques

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Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia. Vol. 1. Tip. Savini-Mercuri, Camerino (scheda 15-4 Capo Palinuro).

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Pulicaria canariensis Bolle**ASTERACEAE**

Status: E
Distribution: Canary Islands
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Area of study: * Germination, dormancy

Bibliography:

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- Febles, R. and Ortega, J. (1982) Estudio citogenético del género *Pulicaria* Gaernt. (Compositae-Inuleae) en las Islas Canarias. *Bot. Macar.* 10.
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Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

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Ramonda nathaliae* Panc. & Petrov*GESNERIACEAE**

Status: R
Distribution: Yugoslavia

Researcher: B. Stevanovic and O. Damajanovic
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Faculty of Biology
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Area of study: * Anatomy
* Ecology

Bibliography:

Stevanovic, B. and Damajanovic, O. (1993) Ecoanatomical differences between Balkan endemo-relict species of Gesneriaceae. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Ramonda serbica* Panc.*GESNERIACEAE**

Status: R
Distribution: Albania, Bulgaria, Greece, Yugoslavia
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Area of study: * Anatomy
* Ecology

Bibliography:

Stevanovic, B. and Damajanovic, O. (1993) Ecoanatomical differences between Balkan endemo-relict species of Gesneriaceae. *VII OPTIMA Meeting*, Borovetz, Bulgaria.

Rhamnus glandulosa* Aiton*RHAMNACEAE**

Status: V
Distribution: Canary Islands
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Area of study: * Propagation methods
* Culture techniques

Bibliography:

- Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.
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Rhamnus lojaconoi* Raimondo*RHAMNACEAE**

Status: V
Distribution: Sicily
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Area of study: * Morphology
* Propagation
* Cultivation
* *Ex situ* and *in situ* conservation

Bibliography:

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

Raimondo, F.M. (1980) *Rhamnus lojaconoi*, nuova specie endemica della Sicilia. *Giorn. Bot. Ital.*, 113:369-377.

Rosmarinus tomentosus* Huber-Morat & Maire*LAMIACEAE**

Status: E
Distribution: Spain

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Area of study: * Conservation

Current research:

Cartography of the populations, estimation of variability, germplasm collection and preservation, development of *ex situ* populations, propagation methods. Work under the Agreement between Jardín Botánico de Córdoba and Agencia de Medio Ambiente, Junta de Andalucía for the preparation of the Recovery Plans of Andalusian endangered wild plant species.

Bibliography:

Blanca, G. and Cueto, M. (1987) *Rosmarinus tomentosus* Huber-Morat & Maire (Lamiaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 496-497.

Hernández-Bermejo, E. Clemente, M. *et al.* (1994) *Protección de la Flora en Andalucía*. Jardín Botánico de Córdoba y Agencia de Medio Ambiente de Andalucía.

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Rosua, J.L. (1981) El complejo *Rosmarinus eriocalyx-tomentosus* en la Península Ibérica. *Anales Jar. Bot. Madrid* 37(2):587-595.

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Rouya polygama* (Desf.) Coincy*APIACEAE**

Status: V
Distribution: Corsica

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy
* Propagation methods
* Culture techniques
* Reintroduction

Bibliography:

Atzei, A.D. (1980) *Rouya polygama* (Desf.) Coincy. In: Segnalazioni Floristiche Italiane: 53-55. *Inform. Bot. Ital.* 12:71.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

De Marco, G. and Mossa, L. (1973) Ricerche floristiche e vegetazionali nell'isola di S. Pietro (Sardegna): La Flora. *Ann. Bot.* (Rome) 32:115-215.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Rumex azoricus* Rech. fil.*POLYGONACEAE**

Status: V
Distribution: Azores

Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Ruta pinnata* L.f.*RUTACEAE**

Status: V
Distribution: Canary Islands

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Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Santos, A. (1983) *Vegetación y Flora de la Isla de La Palma*. Editorial Interinsular Canaria. Santa Cruz de Tenerife.

Rutheopsis herbanica* (Bolle) Hans. & Kunk.*APIACEAE**

Status: R
Distribution: Canary Islands

Researcher: J.M. Pita
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Area of study: * Germination, dormancy

Bibliography:

Kunkel, G. (1977) *Las plantas vasculares de Fuerteventura (Islas Canarias), con especial interés de las forrajeras*. Ministerio de Agricultura. ICONA Naturalia Hispanica 8. Madrid.

Kunkel, G. (1977) *Endemismos canarios. Inventario de las plantas vasculares endémicas en la provincia de Las Palmas*. Ministerio de Agricultura. ICONA Monografías 15. Madrid.

Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Salix tarraconensis Pau**SALICACEAE**

Status: R
Distribution: Spain
Researcher: M.D. Lledó
Institution: Departament de Biologia Vegetal
 Facultat de Ciències Biològiques
 Universitat de Valencia
Address: E-46100 Burjassot, València, Spain
Phone: 34 6 3864374

Area of study: * Micropropagation

Researcher: I. Qeral
Institution: Independent
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Phone: 34 64 243489

Area of study: * Demography, population dynamics
 * Ecology

Current research:

Threatened endemic plant species from Els Ports de Tortosa-Beseit.

Bibliography:

Blanco Fernández de Caleyá, P. (1988) Taxonomical characteristics of the genus *Salix* L. I. *Salix purpurea* L. *sensu lato*. *Lagascalia* 15(Suppl.):237-242.

Bolós, O. de (1957) Comunidades vegetales de las comarcas próximas al litoral, situadas entre los ríos Llobregat y Segura. *Mem. Real Acad. Cienc. Art. Barcelona* 38:1-269.

Font Quer, P. (1920) Contribució al coneixement de la Flora Catalana Occidental. *Treb. Mus. Cienc. Nat. Barcelona* 5:193-233.

Font Quer, P. (1950) *Flórula de Cardó*. Tip. M. Galve. Barcelona. 165 pp.

Molero, J. (1977) Notas corológicas I. *Acta Phytotax. Barcinon* 20:1-12.

Molero, J. *et al.* (1987) *Salix tarraconensis* Pau (Salicaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 500-501.

Salvia blancoana Webb & Heldr.

LAMIACEAE

Status: R

Distribution: Spain

Researcher: F. Civera, M.D. Lledo y J.B. del Amo-Marco

Institution: Dpto. de Biología Vegetal
Facultat de Ciències Biològiques
Universitat de Valencia

Address: C/Dr. Moliner 50
46100 Burjassot, Valencia, Spain

Area of study: * Micropropagation

Bibliography:

None

Sambucus palmensis* Link in Buch.*CAPRIFOLIACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: J. Real and A. Bañares
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Phone: 34 22 259903 / 263898

Area of study: * Germination, dormancy
* Flowering, fruit development, pollination
* Reproduction
* Propagation methods
* Culture techniques
* Phenology
* Demography, population dynamics
* Ecology
* Reintroduction

Current research:

Genetic recovery of the threatened flora of the Garajonay National Park.

Researcher: J.A. Rodríguez
Institution: Jardín de Aclimatación de la Orotava
Address: CITA, Tenerife, Spain

Area of study: * Culture techniques

Bibliography:

Bañares, A. (1990) La flora amenazada de los Parques Nacionales Canarios con especial referencia al P. N. de Garajonay. In: *Conservation Techniques in Botanic Gardens*. pp. 87-90. Ed. Koeltz Sc. Books.

Bañares, A. (1990) Programa de recuperación de la flora amenazada del P. N. de Garajonay. In: Pérez de Paz (Ed.), *Garajonay, Patrimonio de la Humanidad*. ICONA, Madrid.

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Bañares, A. and Beltrán, E. (1985) Nuevas aportaciones a la flora vascular de La Gomera (Islas canarias). Notas corológico-ecológicas. *Vieraea* 15 (1-2): 31-55.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Marrero, A. (1986) Sobre plantas relícticas de Gran Canaria: comentarios corológico-ecológicos. *Bot. Macar.* 12-13: 51-62.

Santolina ligustica ArrigoniASTERACEAE

Status: R
Distribution: Italy

Researcher: Mariotti Mauro Giorgio
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Area of study: * Ecology

Bibliography:

- Arrigoni, P.V. (1977) Santoline italiane nuove. *Webbia* 32: 129-134.
- Arrigoni, P.V. (1979) Le genre *Santolina* L. en Italie. *Webbia* 34:257-264.
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- Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.
- Mariotti, M. (1982) Flora endemica ligustica del piano basale: rapporti tra settore alpico ed appenninico. *Lav. Soc. Ital. Biogeogr.* 9:175-209.

Santolina neapolitana* Jordan et Fourr.*ASTERACEAE**

Status: R
Distribution: Italy

Researcher: V. La Valva, M. Ricciardi, G. Caputo and R. Nazzaro
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Area of study: * Floristic distribution

Bibliography:

- Arrigoni, P.V. (1979) Le genere *Santolina* L. en Italie. *Webbia* 34: 257-264.
- Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.
- Gruppo Lavoro Conservazione Natura S.B.I. (1979) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 2. Tip. Savini-Mercuri, Camerino (scheda 15-12 Vallone Matrunolo e Alta Valle del Sabato).
- Lacaita, C. (1925) Piante italiane critiche o rare. *Nuovo Giorn. Bot. Ital.* 32:206-222.
- La Valva, V. Ricciardi, M. and Caputo, G. (1985) La tutela dell'ambiente in Campania: situazione attuale e proposte. *Inform. Bot. Ital.* 17: 144-154.
- La Valva, V. Ricciardi, M. Caputo, G. and Nazzaro, R. La flora della Penisola Sorrentina. *Delpinoa* (in press).
- Moraldo, B. La Valva, V. Ricciardi, M. and Caputo, G. (1985-1986) La flora dei Monti Picentini (Campania). Pars altera: *Pyrolaceae - Orchidaceae*. *Delpinoa* n.s., 27-28:94.
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Satureja innota (Pau) G. LópezLAMIACEAE

Status: R
Distribution: Spain

Researcher: I. Queral
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Area of study: * Growth, development
* Demography, population dynamics
* Ecology

Current research:

Threatened endemic plant species from Els Ports of Tortosa-Beseit.

Bibliography:

Bolós, O. de (1967) Comunidades vegetales de las comarcas próximas al litoral, situadas entre los ríos Llobregat y Segura. *Mem. Real Acad. Cienc. Art. Barcelona* 38:111-113.

Queral, I. (1987) *Satureja innota* (Pau) G. López (Lamiaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 512-513.

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Pau, C. (1918) Una exploració botànica als Ports de Beceit. *Butlletí del Institut Català d'Historia Natural* 18:76-77.

Scabiosa nitens* Roemer & Schultes*DIPSACACEAE**

Status: V**Distribution:** Azores**Researcher:** G.B. Maciel**Institution:** Universidade dos Açores, Dpto. de Biologia**Address:** Rua Mae de Deus 58, Apart. 1422
P-9502 Ponta Delgada Codex, Portugal**Fax:** 351 96 653 455**Area of study:** * Germination, dormancy**Bibliography:**

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endémicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Scilla hughii TineoLILIACEAE

Status: V
Distribution: Sicily

Researcher: F.M. Raimondo
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Area of study: * Distribution
* Propagation
* *Ex situ* and *in situ* conservation

Bibliography:

Brullo, S., De Santis, C. and Pavone, P. (1980) Osservazioni citotassonomiche su *Scilla barba-caprae*, endemismo cirenaico, e sue affinità con *Scilla villosa*. *Caryologia*, 33:101-109.

Conti, F., Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Piante d'Italia*. WWF, Rome. 637 pp.

Francini, E. and Messeri, A. (1956) L'isola di Marettimo nell'Arcipelago delle Egadi e la sua vegetazione. *Webbia* 11: 607-846.

Ferrarella, A.M. (1988) Osservazioni cariologiche sulle entità sicule appartenenti al gruppo *Scilla peruviana* L. *Giorn. Bot. Ital.* 122, suppl. 1: 51.

Maugini, E. (1953) Ricerche citosistematiche su *Scilla hughii* Tin. *Caryologia*, 5: 167-177.

Sedum multiceps* Coss. & Durien*CRASSULACEAE**

- Status:** R
Distribution: Corsica, Algeria
Researcher: C. Fawer
Institution: Conservatoire et Jardin Bot.
Address: Geneva, Switzerland
Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Sedum pruinaum Link ex Brot.

CRASSULACEAE

Status: R
Distribution: Portugal

Researcher: I. Hagemann and R. Vogt
Institution: Botanischer Garten und Botanisches Museum
Berlin-Dahlem
Address: Königin-Luise-Str. 6-8
D-14191 Berlin, Germany

Area of study: * Anatomy
* Germination, dormancy
* Growth, development
* Reproduction
* Propagation methods

Bibliography:
None

Senecio hermosae* Pitard*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: C. Ortega
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Address: Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Micropropagation

Bibliography:

Bramwell, D. (1990) The role of *in vitro* cultivation in the conservation of endangered species. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 3-15.

Ortega, C. and González, C. (1985) Contribución a la conservación *ex situ* de especies canarias en peligro: Propagación *in vitro* de *Senecio hermosae* Pitard. *Botanica Macaronésica* 14:59-72.

Senecio malvifolius (L'Herit.) DC.ASTERACEAE

Status: V
Distribution: Azores
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Dpto. de Botânica e Engenharia Biológica
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Area of Study: * Germination, dormancy

Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endêmicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques

espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhás Atlânticas*, Madeira.

Senecio palmensis (Chr. Sm. ex Ness) Link apud Buch.

ASTERACEAE

Status: R
Distribution: Canary Islands
Researcher: J. Real and A. Bañares
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La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898
Area of study: * Propagation methods
* Culture techniques

Current research:

Study of the germinative behaviour of some endemisms of the Supracanary Floor.

Bibliography:

Santos, A. (1983) *Vegetación y Flora de La Palma*. Editorial Interinsular Canaria, Santa Cruz de Tenerife. 348 pp.

Sventenius, E. (1946) *Notas sobre la Flora de Las Cañadas de Tenerife*. Inst. Nac. Invest. Agronóm. 78:148-171.

Seseli farrenyi* Molero & Pujadas*APIACEAE**

Status: V**Distribution:** Spain**Researcher:** J.Y. Lesouef *et al.***Institution:** Conservatoire Botanique de Brest**Address:** 52 Allée du Bot
F-29200 Brest, France**Phone:** 33 98 418895**Area of study:** * Culture techniques**Researcher:** J.P. Reduron**Institution:** Parc Zoologique et Botanic de Mulhouse**Address:** Mulhouse, France**Area of study:** * Propagation methods

* Culture techniques

Bibliography:

Bou, J. *et al.* (1987) *Seseli farrenyi* Molero & Pujadas (Apiaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 550-551.

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Molero, J. and Pujadas, J. (1979) Aportaciones a la flora catalana. *Lagascalia* 9(1):31-34.

Sideritis argosphacela (Webb & Berthel.) Clos.

LAMIACEAE

Status: R

Distribution: Canary Islands

Researcher: M.F. Fay *et al.*

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Phone: 44 81 3325517

Fax: 44 81 3325524

Area of study: * Micropropagation

Bibliography:

None

Sideritis marmorea Bolle**LAMIACEAE**

Status: E
Distribution: Canary Islands

Researcher: J.A. Rodríguez et al.
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Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572

Area of study: * Germination, dormancy

Bibliography:

Bolle, C. (1860) *Addenda ad floram Atlantidis, praecipue insularum Canariensium Gorgadumque. III-IV. Bonplandia* 8:285.

Fernández, M. and Santos, A. (1988) Sobre la taxonomía y corología de *Sideritis marmorea* Bolle. *Bot. Mac.* 16:53-59.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Sideritis sventenii* (Kunk.) Mend.Heuer*LAMIACEAE**

Status: V**Distribution:** Canary Islands**Researcher:** M.A. Cabrera**Institution:** Jardín Botánico "Viera y Clavijo"**Address:** Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain**Area of study:** * Genetics
* Micropropagation**Bibliography:**

Bramwell, D. and Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las islas Canarias. *Bot. Macar.* 10:13-17.

Fernández, C. Fraga, B.M. Hernández, M.G. and Arteaga, J.M. (1988) Flavonoid aglycones from some Canary Island Spain species of *Sideritis*. *J. Nat. Prod. (Lloydia)*. 51:591-593.

Fraga, B.M. Hernández, M.G. Santana, J.M.H. and Arteaga, J.M. (1990) Diterpenes from *Sideritis sventenii* and *Sideritis cystosiphon*. *Phytochemistry* 29:591-593.

Kunkel, G. (1973) Notes on the genus *Leucophaea* Webb & Berth. (Lamiaceae) in the Canary Islands *Cuad. Bot. Canar.* 18/19:65-74.

Marrero, A. and Suárez, C. (1990) Notas corológicas de especies en peligro. *Bot. Macar.* 18:86-88.

Sideroxylon marmulano Banks ex Lowe**SAPOTACEAE**

Status: E**Distribution:** Canary Islands**Researcher:** A. Bañares**Institution:** Centro Ecológico de La Laguna, ICONA**Address:** Carretera de La Esperanza Km. 2
La Laguna, Tenerife, Spain**Phone:** 34 22 259903 / 263898**Area of study:** * Propagation methods

* Culture techniques

Researcher: F. González Artilles**Institution:** Jardín Botánico "Viera y Clavijo"**Address:** Aptdo. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain**Area of study:** * Culture techniques

* Ecology

Bibliography:

Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.

Silene adscendens Lag.**CARYOPHYLLACEAE**

Status: R
Distribution: Spain

Researcher: M.V. Ibañez
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Area of study:

- * Anatomy
- * Genetics
- * Metabolism, enzymes
- * Flowering, fruit development, pollination
- * Reproduction
- * Experimental hybridization
- * Evolution

Bibliography:

Alcaraz, F. Garre, M. Martínez-Parras, J.M. and Peinado, M. (1987) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 568-569.

Candau, P. and Talavera, S. (1979) Polen y semillas de las especies de *Silene* Sect. erectofractae Chowdhuri. *Lagascalia* 8(2):127-133.

Lagasca, M. (1816) *Genera et species plantarum, quae aut novae sunt, aut nondum recte cognoscuntur*. Typ. Regia. Madrid 33 pp.

Losa-España, T.M. and Rivas-Goday, S. (1974) Estudio florístico y geobotánico de la provincia de Almería II. *Arch. Inst. Aclimatación* 13(2):119-237.

Willkomm, M. (1852) *Icones Plantarum* I; 41-42, tab. 34.

Silene cambessedesii* Boiss. & Reuter*CARYOPHYLLACEAE**

- Status:** V
Distribution: Spain, Balearic Islands
- Researcher:** M.V. Ibañez
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- Area of study:**
- * Anatomy
 - * Genetics
 - * Metabolism, enzymes
 - * Flowering, fruit development, pollination
 - * Reproduction
 - * Experimental hybridization
 - * Evolution

Bibliography:

- Cambéssedes, J. (1827) *Enumeratio plantarum quas in insulis Balearibus collegit*. *Mem. Mus. Hist. Nat.* (Paris) 14(9):173 and 335.
- Candau, P. and Talavera, S. (1979) Polen y semillas de las especies de *Silene*, Sect. Erectoerectae Chowduri. *Lagascalia* 8(2):127-133.
- Cardona, M.A. and Torres, N. (1987) *Silene cambessedesii* Boiss. & Reuter (Caryophyllaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 570-571.
- Marés, P. and Vigineix, P. (1880) *Catalogue raisonné des Plantes Vasculaires des îles Bâleares*. Masson. Paris. 418 pp.
- Talavera, S. (1979) Revisión de la Sect. Erectoerectae Chowdhuri del género *Silene* L. *Lagascalia* 8(2):135-164.

Silene diclinis (Lag.) Lainz**CARYOPHYLLACEAE**

Status: V
Distribution: Spain

Researcher: J. Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Area of study: * Germination, dormancy
* Flowering, fruit development, pollination
* Reproduction
* Dispersal
* Phenology
* Demography, population dynamics

Current research:

In vitro germination of pollen and growth of the pollination tube in *S. diclinis*.

Dispersal and predation of *S. diclinis* seeds.

Researcher: H. Prentice
Institution: Institute of Ecological Botany
Uppsala University
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S-75122 Uppsala, Sweden
Phone: 46 18 182862
Fax: 46 18 553419

Area of study: * Genetics

Current research:

Genetic variation (allozymes and morphology) in *S. diclinis* from all its known localities.

Bibliography:

Brederode, J. Van. and Mastenbroek, O. (1983) Are allozymes differing in substrate specificity involved in the evolution of *Silene* species (*Silene diclinis*, *S. marizii*, *S. heuffelii*)? *Theor. Appl. Genet.* 64:151-153.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Mansanet, J. and Mateo-Sanz, G. (1979) Dos endemismos valencianos: *Antirrhinum valentinum* F. Quer y *Silene diclinis* (Lag.) Laínz. *Anal. Jard. Bot. Madrid* 36:129-134.

Nebot, J.R. and Mateu, I. Morfología y biología polínica en *S. diclinis* (Lag.) Lainz (Caryophyllaceae). *Actas Congr. Palinol. APLE*. (in press).

Nigtevecht, G. van and Prentice, H.C. (1985) A note on the sex chromosomes of the Valencian endemic, *Silene diclinis* (Caryophyllaceae). *An. Jardín Bot. Madrid* 41: 267-270.

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Prentice, H.C. Costa, M. Figuerola, R. Mateo, G. and Peris, J.G. (1987) *Silene diclinis* (Lag.) Laínz (Caryophyllaceae) In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 572-573.

Silene elegans Link ex Brot.

CARYOPHYLLACEAE

Status: R
Distribution: Portugal
Researcher: M.L. Caixinhas, T. Vasconcelos & A.D. Barao
Institution: Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
1399 Lisboa Codex, Portugal

Area of study: * Germination, dormancy

Bibliography:

Caixinhas, M.L., Vasconcelos, T. and Barao, A.D. (1992) Germination de semences d'espèces endémiques après plusieurs années deconservation. *IV Reencontre Internationale sur les semences*, Angers (France).

Silene goulimy Turril**CARYOPHYLLACEAE**

Status: R**Distribution:** Greece**Researcher:** I. Hagemann and R. Vogt**Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem**Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany**Phone:** 030 83006129 / 030 83006123**Area of study:**

- * Genetics
- * Germination, dormancy
- * Growth, development
- * Reproduction
- * Propagation methods

Bibliography:

None

Silene hifacensis Rouy ex Willk.**CARYOPHYLLACEAE**

Status: V
Distribution: Spain
Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Researcher: L. Navarro *et al.*
Institution: Dpto. de Cultivo de Tejidos Vegetales, Instituto Valenciano de Investigaciones Agrarias.
Address: Moncada, Valencia, Spain
Area of study: * Micropropagation

Bibliography:

Cardona, M.A. Torres, N. and Gómez-Campo, C. (1987) *Silene hifacensis* Rouy ex Willk. (Caryophyllaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 576-577.

Carretero, J.L. and Boira, H. (1987) Fragmenta chorologica occidentalia 989-993. *An. Jard. Bot. Madr.* 44:161.

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Silene macrorhiza Gay & Durieu ex Lacaita**CARYOPHYLLACEAE**

Status: R
Distribution: Spain, Portugal
Researcher: M.L. Caixinhas, T. Vasconcelos & A.D. Barao
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Address: Tapada da Ajuda
1399 Lisboa Codex, Portugal

Area of study: * Germination, dormancy

Bibliography:

Caixinhas, M.L., Vasconcelos, T. and Barao, A.D. (1992) Germination de semences d'espèces endémiques après plusieurs années deconservation. *IV Reencontre Internationale sur les semences*, Angers (France).

Silene nocteolens Webb & Berthel.

CARYOPHYLLACEAE

Status: R
Distribution: Canary Islands
Researcher: J.A. Rodríguez et al.
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Address: Puerto de la Cruz
E-38400 Tenerife, Spain
Fax: 34 22 383572
Area of study: * Culture techniques

Bibliography:

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Silene pindicola Hausskn.

CARYOPHYLLACEAE

- Status:** R
Distribution: Greece
- Researcher:** I. Hagemann and R. Vogt
Institution: Botanischer Garten und Botanisches Museum
Berlin-Dahlem
Address: Königin-Luise-Str. 6-8
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Phone: 030 83006129 / 030 83006123
- Area of study:**
- * Genetics
 - * Germination, dormancy
 - * Growth, development
 - * Reproduction
 - * Propagation methods
- Bibliography:**
- None

Silene schwarzenbergeri Halacsy**CARYOPHYLLACEAE**

- Status:** R
- Distribution:** Albania and Greece
- Researcher:** I. Hagemann and R. Vogt
- Institution:** Botanischer Garten und Botanisches Museum
Berlin-Dahlem
- Address:** Königin-Luise-Str. 6-8
D-14191 Berlin, Germany
- Phone:** 030 83006129 / 030 83006123
- Area of study:**
- * Genetics
 - * Germination, dormancy
 - * Growth, development
 - * Reproduction
 - * Propagation methods

Bibliography:

None

Silene senneni* Pau*CARYOPHYLLACEAE**

Status: R**Distribution:** Spain**Researcher:** J. Pedrola *et al.***Institution:** Est. Inter. Biol. Mediterránea**Address:** Jardín Botánico "Marimurtra"
E-17300 Blanes, Girona, Spain**Phone:** 34 72 330826**Area of study:** * Genetic conservation**Current research:**

Genetic structure of a restricted endemism: *Silene senneni*.

Bibliography:

Cadevall, J. (1915) *Silene* L. In: J. Cadevall and A. Sallent *Flora de Catalunya*. 1:248-263.

Jeanmonod, D. (1984) Révision de la section Siphonomorpha Otth. du genre *Silene* L. (Caryophyllaceae) en Méditerranée occidentale, II. *Candollea* 39(1):195-259.

Malagarriga, H.T. (1976) Catálogo de las plantas superiores del Alt Empordá. *Acta Phytotax. Barcin.* 18:1-146.

Molero, J. (1987) *Silene senneni* Pau (Caryophyllaceae). In: C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp. 582-583.

Silene stockenii ChaterCARYOPHYLLACEAE

Status:	E
Distribution:	Spain
Researcher:	S. Talavera, M. Arista and J. Herrera
Institution:	Departamento de Biología Vegetal y Ecología Facultad de Biología, Universidad de Sevilla.
Address:	Avda. Reina Mercedes s/n 41080 Sevilla, Spain
Area of study:	* Genetics * Germination, dormancy * Growth, development * Flowering, fruit development, pollination * Reproduction * Dispersal * Propagation methods * Culture techniques * Pathology * Phenology * Demography, population dynamics * Ecology

Current research:

Natural history of *Silene stockenii*

Bibliography:

Chater, A.O. (1973) A new species of *Silene* from South Spain. *Lagascalia* 3:219-222.

Candau, P. and Talavera, S. (1979) Polen y semillas de las especies de *Silene* sect. *Erectorefractae*. *Lagascalia* 8:127-133.

Talavera, S. (1979) Revisión de la sect. *Erectorefractae* del género *Silene* L. *Lagascalia* 8:135-164.

Talavera, S. (1987) *Silene stockenii* Chater. In: C. Gómez-Campo (Ed.) *Libro Rojo de las Especies Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid, pp.584-585.

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Silene velutina* Pourret ex Loisel.*CARYOPHYLLACEAE**

Status: V
Distribution: Corsica and Sardinia
Researcher: J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Area of study: * Culture techniques

Researcher: L. Olivier *et al.*
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Area of study: * Germination, dormancy
 * Propagation methods
 * Culture techniques

Bibliography:

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Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Solanum lidii SundingSOLANACEAE

Status: E
Distribution: Canary Islands
Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Fax: 34 22 383572

Area of study: * Culture techniques

Bibliography:

Bramwell, D. and Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las Islas Canarias. *Bot. Macar.* 10:13-17.

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Marrero, A. and Suárez, C. (1990) Notas corológicas de especies en peligro. *Bot. Macar.* 18:86-88.

Rodríguez, J.A. (1990) Conservación de plantas amenazadas en el Jardín de Aclimatación de la Orotava. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*. Koeltz Scientific Books, Koenigstein, Germany. pp. 185-186.

Sunding, P. (1966) *Solanum lidii*, a species of the section *Nyctericum* from the Canary Islands. *Blyttia* 4:368-373.

Spergularia azorica (Kindb.) Lebel**CARYOPHYLLACEAE**

Status: V
Distribution: Azores

Researcher: M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
Instituto Superior de Agronomia
Address: Tapada da Ajuda
P-1399 Lisboa Codex, Portugal

Area of Study: * Germination, dormancy

Researcher: J.Y. Lesouef *et al.*
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Area of study: * Culture techniques

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Fax: 351 96 653 455

Area of study: * Germination, dormancy

Bibliography:

Furtado, D.S. (1984) Status e distribuição das plantas vasculares endêmicas dos Açores. *Arquipélago*, 5:197-209.

Hansen, A. and Sundig, P. (1985) Flora of Macaronesia, Checklist of vascular plants. *Sommerfeltia*, 1.

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Maciel, G.B. and Caixinhas, M.L. (1992) Etudes sur les dormances de quelques

espèces endémiques des Açores. *IVe reencontre internationale sur les semences*, Angers (France).

Maciel, G.B. and Caixinhas, M.L. (1993) Etude sur la germination de deux années d'essais de quelques espèces endémiques des Açores. *Primeiro Simposio Fauna e Flora das Ilhas Atlânticas*, Madeira.

Stemmacantha cynaroides (Chr. Sm.) Dittrich.

ASTERACEAE

- Status:** E
Distribution: Canary Islands
- Researcher:** A. Bañares and J. Real
Institution: Centro Ecológico de La Laguna, ICONA
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La Laguna, Tenerife, Spain
Phone: 34 22 259903 / 263898
- Area of study:**
- * Germination, dormancy
 - * Growth, development
 - * Flowering, fruit development, pollination
 - * Propagation methods
 - * Culture techniques
 - * Phenology
 - * Demography, population dynamics
 - * Ecology
 - * Biotic interactions
 - * Reintroduction

Current research:

Genetic recovery of the threatened flora of the Teide National Park.

Bibliography:

Bañares, A. Romero, P. and Rodriguez, C. (1992) Adiciones corológicas de algunos endemismos vegetales canarios en peligro de extinción. *Bot. Macar.* 19-20:141-144.

Sternbergia candida* B. Mathew & Baytop*AMARYLLIDACEAE**

Status: E
Distribution: Turkey
Researcher: W. Lobin and M. Koenen
Institution: Botanischer Garten der Universität Bonn
Address: Bonn, Germany
Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Sventenia bupleuroides Font QuerASTERACEAE

Status: V
Distribution: Canary Islands

Researcher: M.F. Fay *et al.*
Institution: Micropropagation Unit
Royal Botanic Gardens
Address: Kew, Richmond, Surrey
TW 9 3AB, Great Britain
Phone: 44 81 3325517
Fax: 44 81 3325524

Area of study: * Micropropagation

Bibliography:

Font Quer, P. (1984) *Plantae novae. Collectanea Botanica*, Vol. II. Fasc. II, 12:201-203.

Pérez de Paz, J. (1976) Observaciones sobre la biología y relaciones de *Sventenia bupleroides* F.Q. *Bot. Macar.* 1:51-65.

Tanacetum ferulaceum* (Webb) Sch. Bip.*ASTERACEAE**

Status: R
Distribution: Canary Islands
Researcher: R. Febles
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain
Area of study: * Genetics

Bibliography:

Bramwell, D. and Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las islas Canarias. *Bot. Macar.* 10:13-17.

Febles, R. (1990) *Análisis citogenético y evolutivo en las especies endémicas de los géneros Gonospermum Less., Lugoa D.C. y Tanacetum L. (Compositae: Anthemideae) de las Islas Canarias.* Doctoral Thesis, Madrid.

González, A.G. Bermejo, J. Triana, J. López, M. and Eiroa, J.L. (1990) Sesquiterpene lactones from *Tanacetum ferulaceum*. *Phytochemistry* 29:2339-2341.

González, A.G. Bermejo, J. Triana, J. López, M. and Eiroa, J.L. (1992) Sesquiterpene lactones and other constituents of *Tanacetum* species. *Phytochemistry* 31:1821-1822.

Tanacetum oshanahanii* Marrero, Febles & Suárez*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: M.A. Cabrera
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Area of study: * Genetics
* Micropropagation

Researcher: R. Febles
Institution: Jardín Botánico "Viera y Clavijo"
Address: Apto. Correos 14 de Tafira Alta
E-35017 Las Palmas de Gran Canaria, Spain

Area of study: * Genetics

Bibliography:

Febles, R. (1990) *Análisis citogenético y evolutivo en las especies endémicas de los géneros Gonospermum Less., Lugoia D.C. y Tanacetum L. (Compositae: Anthemideae) de las Islas Canarias*. Doctoral Thesis, Madrid.

Marrero, A. Febles, R. and Suárez, C. (1989) *Tanacetum oshanahanii* (Compositae-Anthemideae), nueva especie para las islas Canarias. *Bot. Macar.* 17:3-14.

Tanacetum ptarmiciflorum* (Webb) Sch. Bip.*ASTERACEAE**

Status: E
Distribution: Canary Islands

Researcher: R. Febles
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Area of study: * Genetics

Bibliography:

Bramwell, D. y Rodrigo, J. (1984) Prioridades para la conservación de la diversidad genética en la flora de las islas Canarias. *Bot. Mac.* 10:3-18.

Febles, R. (1990) *Análisis citogenético y evolutivo en las especies endémicas de los géneros Gonospermum Less., Lugoa D.C. y Tanacetum L. (Compositae: Anthemideae) de las Islas Canarias*. Doctoral Thesis, Madrid.

González, A.G. Bermejo Barrera, J. Triana Méndez, J. López Sánchez, M. and Eiroa Martínez, J.L. (1992) Sesquiterpene lactones and other constituents of *Tanacetum* species. *Phytochemistry* 31:1821-1822.

Kunkel, G. (1977) *Endemismos canarios. Inventario de las plantas vasculares endémicas en la provincia de Las Palmas*. ICONA. Ministerio de Agricultura. Monografía núm. 15. Madrid.

Thymus richardii Pers.**LAMIACEAE**

Status: R
Distribution: Balearic Islands, Sicily, Yugoslavia
Researcher: J. Estades and H. Medrano
Institution: Laboratori de Fisiología Vegetal
 Dep. de Biología I.C.S.
Address: Universitat de les Illes Balears
 Palma de Mallorca, Spain

Area of study: * Micropropagation

Researcher: J. Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
Address: 52 Allée du Bot
 F-29200 Brest, France
Phone: 33 98 418895

Area of study: * Culture techniques

Bibliography:

Barceló, F. (1879-81) *Flora de las Islas Baleares*. J. Gelabert, Palma de Mallorca 525 pp.

Conti, F. Manzi, A. and Pedrotti, F. (1992) *Libro Rosso delle Plante d'Italia*. WWF, Rome. 637 pp.

Estades, J. and Medrano, H. (1990) Contribución a la conservación de plantas endémicas de Baleares mediante cultivo *in vitro*. In: J.E. Hernández-Bermejo, M. Clemente and V. Heywood (Eds.) *Conservation Techniques in Botanic Gardens*, Koeltz Scientific Books, Koenigstein, Germany. pp. 121-123.

Francini, E. and Messeri, A. (1955) L'Isola di Marettimo nell'Arcipelago delle Egadi e la sua vegetazione. *Webbia* 11:607-846.

Gruppo Lavoro Conservazione Natura S.B.I. (1979) *Censimento dei Biotopi di Rilevante Interesse Vegetazionale Meritevoli di Conservazione in Italia*. Vol. 2. Tip Savini-Mercuri, Camerino (scheda 19-40 Isola di Marettimo).

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Llorens, L. and Gómez-Campo, C. (1987) *Thymus richardii* Pers. (Lamiaceae) In:

C. Gómez-Campo (Ed.) *Libro Rojo de Especies Vegetales Amenazadas de España Peninsular e Islas Baleares*. ICONA, Madrid. pp. 624-625.

Persoon, C.H. (1807) *Syn. Pl.*, 2. 130 pp.

Tinguarra cervariaefolia* Parl.*APIACEAE**

Status: R
Distribution: Canary Islands

Researcher: J.M. Pita
Institution: Dpto. Biología Vegetal, E.T.S.I. Agrónomos
Universidad Politécnica de Madrid
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Phone: 34 1 3365657
Fax: 34 1 3365656

Area of study: * Germination, dormancy

Bibliography:

Domínguez, M.D. La Serna, I. and Pérez, P.L. (1991) A palynological study of the genera *Tinguarra* Parl. and *Todaroa* Parl. Apiaceae from the Macaronesian region. In: A. Ballouche and J. Maley (Eds.) *Palaeoecology of Africa* Vol 22. A. Balkema, Rotterdam. pp. 27-34.

Pita, J.M. (1988) Germinación en especies endémicas de las Islas Canarias. *Investigación Agraria* 3:39-43.

Tolpis azorica (Nutt.) Pinto da SilvaASTERACEAE

- Status:** R
Distribution: Azores
- Researcher:** M.L. Caixinhas
Institution: Universidade Técnica de Lisboa
Dpto. de Botânica e Engenharia Biológica
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- Area of Study:** * Germination, dormancy
- Researcher:** J.Y. Lesouef *et al.*
Institution: Conservatoire Botanique de Brest
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Phone: 33 98 418895
- Area of study:** * Culture techniques
- Researcher:** G.B. Maciel
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- Area of study:** * Germination, dormancy

Bibliography:

Le Hir, F. (1989) *List of the Threatened Plants in Cultivation at the Conservatoire Botanique of Brest*. Brest. 32 pp.

Maciel, G.B. and Caixinhas, H.L. (1992) Etudes sur les dormances de quelques espèces endémiques des Açores. *IVe rencontre internationale sur les semences*, Angers (France).

Trachelium asperuloides Boiss. & Orph.

CAMPANULACEAE

Status: V

Distribution: Greece

Researcher: -

Institution: Royal Botanic Gardens Edinburgh

Address: Edinburgh, EH3 5LR, Scotland, Great Britain

Area of study: * Propagation methods
* Culture techniques

Bibliography:

Cultivation and Propagation Methods for Plants in Botanic Gardens. A Sample Database. (1992) Botanic Gardens Conservation International.

Tulipa goulimy Sealy & Turrill**LILIACEAE**

Status: V
Distribution: Greece, Crete

Researcher: K. Athanasiou
Institution: Botanical Institute, University of Patras
Address: GR-26010 Patras, Greece

Area of study: * Culture techniques
* Karyology
* Distribution

Bibliography:

Athanasiou, K. (1988) Some cytogeographycal notes on the genus *Tulipa* L. (Liliaceae) in Greece. *Bot. Chron.* 8(1-2):51-59.

Briggs, M. (1990) First record of *Tulipa goulimy* new record Liliaceae on Crete Greece. *Ann. Mus. Goulandris.* 8:41-44.

Yannitsaros, A. (1978) *Tulipa goulimy* Sealy et Turril and the dangers which threaten it. *Physis* 14:36-37 (in Greek with an extended English translation).

Verbascum litigiosum G. Samp.

SCROPHULARIACEAE

Status: V
Distribution: Portugal

Researcher: M.L. Caixinhas, T. Vasconcelos & A.D. Barao
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Area of study: * Germination, dormancy

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Area of study: * Culture techniques

Bibliography:

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Viola cheiranthifolia H. B. & K.

VIOLACEAE

Status: V
Distribution: Canary Islands
Researcher: J. Real and A. Bañares
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Area of study: * Propagation methods
* Culture techniques

Current research:

Study of the germinative behaviour of some endemisms of the Supracanary altitudinal stage.

Bibliography:

None

Visnea mocanera L. f.

TERNSTROEMIACEAE

- Status:** V
Distribution: Canary Islands
- Researcher:** A. Bañares
Institution: Centro Ecológico de La Laguna, ICONA
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- Area of study:** * Propagation methods
* Culture techniques
- Researcher:** J.Y. Lesouef *et al.*
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F-29200 Brest, France
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- Area of study:** * Culture techniques

Bibliography:

- Bañares, A. (1992) Contribución al conocimiento de la propagación vegetativa y sexual de las especies vegetales de la Laurisilva Canaria. *Bot. Mac.* 19-20:53-64.
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Zelkova sicula* Di Pasquale, Garfi & Quézel*ULMACEAE**

Status: E
Distribution: Sicily

Researcher: G. Garfi and G. Di Pasquale
Institution: Dipartimento di Scienze Botaniche
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Phone: 39 91 6161493

Area of study: * Autecology
* Demography
* Genetics
* Pedoantracology
* Conservation

Bibliography:

Di Pasquale, G. Garfi, G. and Quézel, P. (1992) Sur la presence d'un *Zelkova* nouveau en Sicile sud-orientale (*Ulmaceae*). *Biocosme Méditerranéen*, 8(4)-9(1):401-409.

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