



Maria A. Doussi
Doctor of Biology

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▶ **Distinctions – Fellowships**

- Post-doctoral visiting fellowship in the Negev Desert Large Scale Facility (LSF), EC sponsored TMR ('Training and Mobility of Researchers') Program. Febr. 15, 2000 - Mar. 31, 2000: Unit for Ecophysiology and Introduction of Desert Plants, Jacob Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boker Campus, Israel (Prof. Yitzchak Gutterman).
- Award for the paper entitled "Breaking of the seed coat-imposed dormancy in Cistaceae: the structural aspect", presented as poster in the VII International Workshop on Seed Biology, Salamanca, Spain, 12-16 May, 2002.
- Award of the International Society for Seed Science (ISSS): partial sponsorship of the participation in the international conference "TREE SEEDS 2002" (Co organized by IUFRO, The University of Athens & MAICH), Chania, Crete, Greece, Sep. 11-15 2002.
- Post-doctoral research fellowship by the Greek State Fellowship Foundation, 2002-2003. Title of the research project: Conservation of the biodiversity of the hellenic flora - ex situ conservation of the endemic, rare and threatened species.

▶ **Educational activity**

2005 - present

Practical training of students in the following undergraduate courses:

- Plant Physiology
- Plant Metabolism
- Plant Ecophysiology

▶ **Research interests**

- Seed physiology.
- Ecophysiology of seed germination and seedling establishment.
- Postfire regeneration of Mediterranean-type vegetation.
- Conservation biology of the endemic, rare and threatened plants of the Hellenic flora.

▶ **Reviewer in international scientific journals**

- *South African Journal of Botany (S. Afr. J. Bot.)*. Published by Elsevier, ISSN 0254-6299 [5-yr impact factor: 1.144].
- *Journal of Plant Ecology (JPE)*. Published by Oxford University Press, ISSN: 1752-9921 [5-yr impact factor: 1.549].
- *Seed Science Research (Seed Sci. Res.)*. Published by Cambridge University Press, ISSN 0960-2585, EISSN 1475-2735 [Impact factor (2010): 1.25].

► Scientific publications

Doctoral thesis

Doussi M.A. 2000. Seed ecophysiology in Mediterranean ecosystems – adaptive mechanisms of postfire regeneration. Ph.D. Thesis, University of Athens, Athens (in Greek).

Articles in international journals

- Thanos C.A. and M.A. Doussi. 1995
Ecophysiology of seed germination in endemic labiates of Crete. *Isr. J. Plant Sci.*, 43: 227-237.
- Doussi M.A. and C.A. Thanos. 2002
Ecophysiology of seed germination in Mediterranean geophytes. 1. *Muscari* spp. *Seed Sci. Res.*, 12:193-201.

Articles in books

- Doussi M.A. and C.A. Thanos. 1993
The ecophysiology of fire-induced germination in hard-seeded plants. In: Côme D., Corbineau F. (eds), *Fourth International Workshop on Seeds. Basic and Applied Aspects of Seed Biology* (Angers, France, 20-24 July, 1992). Vol. 2, pp. 455-460. ASFIS, Paris.
- Doussi M.A. and C.A. Thanos. 1994
Post-fire regeneration of hardseeded plants: ecophysiology of seed germination. In: Viegas D.X. (ed), *Proceedings of the 2nd International Conference on Forest Fire Research*, Coimbra, Portugal, 21-24 November, 1994, Vol. II. pp. 1035-1044.
- Doussi M.A. and C.A. Thanos. 1997
Ecophysiology of seed germination in composites inhabiting fire-prone, Mediterranean ecosystems. In: *Basic and Applied Aspects of Seed Biology: Proceedings of the Fifth International Workshop on Seeds*, Reading, 1995. pp. 641-649. Ellis R.H., Black M., Murdoch A.J., Hong T.D. (eds), 832 pp., Kluwer Academic Publishers, Dordrecht.
- Doussi M.A. and Thanos C.A. 1998
Bradychory in mediterranean pines – the mechanism of cone opening. pp. 159-163, *Proceedings of the 7th Congress of the Hellenic Botanical Society*, Alexandroupoli, Greece, 1-4 October, 1998. (in Greek).
- Doussi M.A., Grubisic D., Konjevic R. and Thanos C.A. 1998
Paulownia tomentosa, an 'imperial' coloniser – ecophysiology of seed germination. pp. 246-249, *Proceedings of the 7th Congress of the Hellenic Botanical Society*, Alexandroupoli, Greece, 1-4 October, 1998. (in Greek).
- Thanos C.A. and M.A. Doussi. 2000
Postfire regeneration of *Pinus brutia* forests. *Ecology, Biogeography and Management of Pinus halepensis and P. brutia Forest Ecosystems in the Mediterranean basin*. pp. 291-301. G. Ne'eman & L. Trabaud (eds), 412 pp., Backhuys Publishers, Leiden.

Presentations in conferences

- Doussi M.A. and C.A. Thanos. 1992
Ecophysiology of seed germination in fire following plants. *Book of Abstracts of the 14th Scientific Congress of the Hellenic Society of Biological Sciences*, p. 34, Nicosia, Cyprus, 28 April - 3 May, 1992.

- Doussi M.A. and C.A. Thanos. 1992
Fire-induced seed germination. European School on "Forest Fire Risk and Management", Porto Carras (Halkidiki), Greece, 27 May - 4 June, 1992.
- Doussi M.A. and C.A. Thanos. 1992
The ecophysiology of fire-induced germination in hard-seeded plants. Book of Abstracts, 44, Fourth International Workshop on Seeds "Basic and Applied Aspects of Seed Biology", Angers, France, 20-24 July, 1992.
- Doussi M.A. and K. Georghiou. 1994
The physiology of seed germination of the endemic plants of Greece, *Ebenus sibthorpii* and *Ebenus cretica*. Proceedings of the 16th Scientific Congress of the Hellenic Society of Biological Sciences, pp. 2.23-2.25, Volos, Greece, May 5-7, 1994.
- Kadis C.C., M.A. Doussi, C.A. Thanos and K. Georghiou. 1994
The physiology of seed germination in endemic, rare and threatened labiates of Greece. Proceedings of the 16th Scientific Congress of the Hellenic Society of Biological Sciences, pp. 2.26-2.27, Volos, Greece, May 5-7, 1994.
- Doussi M.A. and C.A. Thanos. 1994
Germination ecophysiology in hard-seeded fire following plants. Abstracts, 9th Congress of the Federation of European Societies of Plant Physiology. Brno, Czech Republic, 3-8 July, 1994, *Biologia Plantarum* 36 (suppl.): 266, 1994.
- Doussi M.A. and C.A. Thanos. 1994
Seed ecophysiology in Mediterranean ecosystems: adaptive mechanisms of postfire regeneration. Abstracts 20, Proceedings 187-190, 5th Scientific Congress of the Hellenic Botanical Society, Delfi, Greece, October 21-23, 1994.
- Doussi M.A. and C.A. Thanos. 1994
Post-fire regeneration of hardseeded plants: ecophysiology of seed germination. In: Viegas D.X. (ed), Proceedings of the 2nd International Conference on Forest Fire Research, Coimbra, Portugal, 21-24 November, 1994, Vol. II. pp. 1035-1044.
- Doussi M.A. and C.A. Thanos. 1995
Ecophysiology of seed germination in composites inhabiting fire-prone Mediterranean ecosystems. Abstracts of Poster Presentations, 5th International Workshop on Seeds, Reading, UK, 10-15 September, 1995.
- Thanos C.A., Skordilis A., Daskalaku E.N. and M.A. Doussi. 1996
Fire effects on Mediterranean vegetation. Mechanisms and adaptations of plant resilience. PYR.SOS Conference: Greek network on wildfire research and management issues, research activities in the field of forest fires in Greece. Institute of Mediterranean Forest Ecosystems and Forest Products' Technology, Athens, June 5, 1996.
- Doussi M.A., Grubisic D., Konjevic R. and C.A. Thanos. 1998
Paulownia tomentosa, an "imperial" coloniser - ecophysiology of seed germination. Proceedings of the 7th Scientific Congress of the Hellenic Botanical Society, Alexandropolis, Greece, October 1-4, 1998, pp. 246-249.
- Doussi M.A. and C.A. Thanos. 1998
Bradychory in Mediterranean pines - the mechanism of cone opening. Proceedings of the 7th Scientific Congress of the Hellenic Botanical Society, Alexandropolis, Greece, October 1-4, 1998, pp. 159-163.

- Doussi M.A. and C.A. Thanos. 1999
Cone opening in the serotinous Mediterranean pines. Book of Abstracts, 17, International Workshop on Mediterranean Pines (MEDPINE), Beit-Oren, Israel, February 7-12, 1999.
- Doussi M.A. and C.A. Thanos. 2002
Breaking of the seed coat-imposed dormancy in Cistaceae: the structural aspect. Book of Abstracts, 165, VII International Workshop on Seed Biology, Salamanca, Spain, May 12-16, 2002.
- Thanos C.A. and M.A. Doussi. 2002
MED-SEED: a database of seed biology for Mediterranean plants. Book of Abstracts, 56, VII International Workshop on Seed Biology, Salamanca, Spain, May 12-16, 2002.
- Doussi M.A. and C.A. Thanos. 2002
The mechanism of cone opening in *Pinus halepensis* and *P. brutia* – morphology and physiology. Book of Abstracts, 20, International Conference ‘Conservation, Regeneration and Restoration of Mediterranean Pines and their Ecosystems’ (MEDPINE2), Chania, Crete, Greece, September 8-13, 2002.
- Thanos C.A., E.N. Daskalidou, A. Skordilis, P. Panayiotopoulos and M.A. Doussi. 2002
Dynamics of growth and reproduction in postfire regenerating Aleppo pines (Mt Parnes, 1989-2002). Book of Abstracts, 65, International Conference ‘Conservation, Regeneration and Restoration of Mediterranean Pines and their Ecosystems’ (MEDPINE2), Chania, Crete, Greece, September 8-13, 2002.
- Koutsovoulou K., M.A. Doussi, C. Fournaraki and C.A. Thanos. 2004
Seed ecophysiology in plants of Crete – the role of temperature and light. Book of Abstracts, 132, International Conference “SEED ECOLOGY 2004”, Rhodes Island, Greece, April 29-May 4, 2004.

► **Participation in research projects (as researcher)**

- "*Comparative, ecophysiological study of the postfire regeneration in Mediterranean pines (Pinus halepensis and P. brutia).*"
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology. (PENED, 1993-95).
Scientist in charge: Ass. Prof. C.A. Thanos.
- "*Conservation and protection of the endemic, rare and threatened plants of the Hellenic flora: study of the germination physiology, data base creation and seed bank establishment.*"
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology.(PENED, 1993-95).
Scientist in charge: Ass. Prof. K. Georghiou.
- "*The leguminous flora and its role in the postfire regeneration of Mediterranean ecosystems.*"
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology.(PENED, 1993-95).
Scientist in charge: Ass. Prof. M. Arianoutsou.

- *"Identification, preservation, adaptation and cultivation of selected aromatic and medicinal plants suitable for marginal lands of the Mediterranean region."*
EEC (CAMAR - 9PL 900422). 1991-1995 (participant: C.A. Thanos, coordinator: Mediterranean Agronomic Institute of Chania).
- *"Management techniques for optimisation of suppression and minimisation of wildfire effects - PROMETHEUS."*
EU (ENVIRONMENT - EV5V-CT94-0482). 1994-1996 (participant: C.A. Thanos, coordinator: Algosystems SA).
- *"Inventory, identification, evaluation and mapping of the habitat types and flora and fauna species in Greece (Directive 92/43/EEC)."*
EU (LIFE - contract no. B4-3200/94/756). 1994-1995 (participant: K. Georghiou, coordinator: EKBY).
- Joint research and technology programme between Greece and Yugoslavia entitled *"Light and Chemical Signals in Seed Germination and Ecosystem Regeneration"* (University of Athens and University of Belgrade). Scientists in charge: Ass. Prof. Costas Thanos, Department of Botany, Faculty of Biology, University of Athens and Professor Radomir Konjevic, Institute for Biological Research "S. Stankovic", University of Belgrade, Yugoslavia.
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology. 1996-1998.
- *"The regenerative potential of Aleppo pine (in juvenile stages) and the ability of post-fire recovery of Mediterranean pine forests (at consecutively shorter interfire periods)."*
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology.(PENED, 1996-1998).
Scientist in charge: Assoc. Prof. C.A. Thanos.
- *"Database of the endemic, subendemic, rare, threatened and protected plants of the Hellenic flora - CHLORIS ."*
Ministry of Industry, Energy and Technology, Secretariat of Research and Technology and National Documentation Centre, 1998 - 2000.
Scientist in charge: Ass. Prof. K. Georghiou.
- *"Identification and description of the habitat types in areas of nature conservation, Group 3 (66 areas)."*
University of Athens, Faculty of Biology, Department of Botany (1999 - 2001).
Scientist in charge: Ass. Prof. K. Georghiou.
- *"Conservation of the biodiversity of the Hellenic flora – seed bank (gene bank) of the Univ. of Athens."*
University of Athens, Faculty of Biology, Department of Botany (1999 - 2001).
Scientist in charge: Assoc. Prof. C.A. Thanos.
- *"Euro-Mediterranean Wildland Fire Laboratory, a "wall-less" Laboratory for Wildland Fire Sciences and Technologies in the Euro-Mediterranean Region (EUFIRELAB)."*
EU (Energy, Environment and Sustainable Development - contract no. EVR1-CT-2002-40028) 2002 - 2006 (participant: National and Kapodistrian University of Athens, coordinator: I.N.R.A.).

- *"Conservation of the plant diversity of Mt. Hymettus – seed bank (gene bank) of the Univ. of Athens."*
University of Athens, Faculty of Biology, Department of Botany (2004 - 2005).
Scientist in charge: Assoc. Prof. C.A. Thanos.
- *"A Pilot Network of Plant Micro-Reserves in Western Crete."*
EU (LIFE-NATURE 2004 – LIFE04NAT_GR_000104). 2004-2007
Project Manager: C.A. Thanos, Assoc. Professor.

▶ **Other activities**

- Member of the Organizing Committee of the conference "TREE SEEDS 2002" (Co organized by IUFRO, The University of Athens & MAICH), Chania, Crete, Greece, Sep. 11-15, 2002.
- Co-chair of sessions in the conferences "MEDPINE2" and "TREE SEEDS 2002", Chania, Crete, Greece, September 8-13 and 11-15, 2002, respectively.
- Member of the Organizing Committee of the conference "SEED ECOLOGY 2004", Rhodes Island, Greece, April 29-May 4, 2004.
- Member of the International Society for Seed Science (ISSS).
- Member of IUFRO 2.09.00, Seed physiology and technology.
- Member of the Hellenic Botanical Society.
- Member of the Hellenic Society for the Protection of Nature.
- Member of the Organizing Committee of the 11th Conference of the Hellenic Botanical Society, Athens, Greece, October 8-11, 2009.
- Faculty of Biology, University of Athens: member of the Committee for Student Affairs, Education and Study Guide (September 2009 – present).
- Faculty of Biology, University of Athens: member of the Internal Evaluation Group (IEG) (Academic years: 2009-2010, 2011-2012).

▶ **Languages**

- Greek (mother tongue)
- English (Certificate of Proficiency in English, Univ. of Cambridge, 1985).
- Spanish (Diploma DELE Superior de Español, Instituto Cervantes, 2005).
- Portuguese.