

# Conference Programme



## 16<sup>th</sup> Conference of the **Hellenic Botanical Society**



Athens 10-13 October 2019



## Conference Programme

### Thursday 10th October 2019

#### 16:00-17:30 Registrations

#### 17:30-19:45 Opening Session

Chairs: Panayotis Dimopoulos, Maria Panitsa, Ioannis Bazos, Evangelia Daskalidou

#### 17:30-18:00

Welcome speech and opening of the conference, Prof. **Panayotis Dimopoulos**, Chair of the Hellenic Botanical Society

Welcome speech, Dr **Ioannis Mitsopoulos**, Directorate of the Natural Environment and Biodiversity, Ministry of Environment and Energy

#### Greetings

Dr **Dimitrios Vakalis**, General Directorate of Forests and Forest Environment, Ministry of Environment and Energy

Dr **Konstantinia Tsagari**, Director of the Institute of the Mediterranean Forest Ecosystems, Hellenic Agricultural Organization "Demeter"

#### 18:00-19:00 Honorary distinctions - Awards

**Kyriacos Georghiou**, Emeritus Professor, Faculty of Biology, National and Kapodistrian University of Athens

**Artemios Yannitsaros**, Emeritus Professor, Faculty of Biology, National and Kapodistrian University of Athens

**Dimitrios Tzanoudakis**, Emeritus Professor, Faculty of Biology, University of Patras

**Gregoris Iatrou**, Emeritus Professor, Faculty of Biology, University of Patras

**George Sfikas**, Author-researcher of the Greek Flora

#### 19:00-19:45 Keynote Speaker

##### From Seed Biology to Conservation Biology

**Kyriacos Georghiou**, Emeritus Professor, Faculty of Biology, National and Kapodistrian University of Athens

#### 19:45-21:30 Opening reception

### Friday 11th October 2019

#### Session I

#### Recording and evaluation of plant diversity

Chairs: *Panitsa M., Kallimanis A.S.*

#### 9:00-9:15

##### Floristic and chorological analysis of the coastal habitats' plants in Greece

*Bazos I., Kokkoris I., Dimopoulos P.*

#### 9:15-9:30

##### Plant and habitat diversity – preliminary results from the Terra Lemnia project on Lemnos island (Greece)

*Panitsa M., Bergmeier E., Meyer S., Bebeli P., Sfakianou D., Antoniou D., Pappa A., Georgiadis N., Dimitropoulos G.*

#### 9:30-9:45

##### Biotic and abiotic drivers of alien plant species richness in Crete

*Lazarina M., Boutsis G., Andricou-Charitidou A., Karadimou E., Psaralexi M., Sgardelis S.P., Dimopoulos P., Kallimanis A.S.*

#### 9:45-10:00

##### Functional diversity patterns of forest community types in northern and central Greece

*Mastrogianni A., Kallimanis A., Chytrý M, Tsiripidis I.*

#### 10:00-10:15

##### Flora diversity in olive orchards located in different agroecological zones

*Avramakis E., Vrachnakis T., Volakakis N., Kabourakis M.E.*

#### Session II

#### Conservation and management of species and habitats

Chairs: *Koutsovoulou K., Fournaraki C.*

#### 10:15-10:30

##### Human recreation versus plant diversity on maritime sands in Kriti

*Turland N.*

#### 10:30-10:45

##### Seed mass, an important functional trait – application to the entire Flora of Greece and implications

*Thanos C.A., Daskalidou E., Koutsovoulou K., Doussi M.A., Kaltsis A., Oikonomidis S., Markaki E., Fournaraki C.*

**10:45-11:00**

Preliminary results of actions to reinforce natural populations of threatened plant species in Crete

*Fournaraki C., Gotsiou P., Markaki E., Kokkinaki A.*

**11:00-11:15**

Break

**11:15-11:30**

FORESTSEEDS, a dynamic database essential for conservation actions of the Native Tree Flora of Greece

*Daskalakou E.N., Koutsovoulou K., Thanos C.A.*

**11:30-11:45**

Seed germination of the orchids of Greece – an important factor in their ex situ conservation

*Oikonomidis S., Koutsovoulou K., Thanos C.A.*

**11:45-12:00**

How effective is Natura 2000 network of Greece for halting the expansion of alien plants?

*Christopoulou Aik., Christopoulou A., Fyllas N., Dimitrakopoulos P.G., Arianoutsou M.*

**12:00-12:15**

Grazing effects on the structure and function of Mediterranean grasslands on the island of Lesbos

*Ksagoraris C., Halvatzi M., Georgi N., Zafiriou E., Monokrousos N., Fyllas N.M.*

**12:15-12:30**

The natural enemy complex of *Zelkova abelicea* and the in situ conservation of the species

*Petrakis P.V., Fazan L., Ghosn D., Remoundou I., Kozlowski G.*

**12:30-12:45**

Genetic consequences from introduced alien insects used as biological control agents for conservation of species

*Avramidou E.V., Ioannidis K., Petrakis P.V.*

**12:45-13:00**

Evaluation of the structure and dynamics of the riparian forest (habitat type 91E0\*) in Nestos Delta

*Korakaki E., Koulelis P., Proutsos N., Solomou A., Avramidou E., Kaoukis K., Ioannidis K., Karetzos G.*

**13:00-13:15**

An empirical approach to predict surface fire rate of spread in Mediterranean grasslands in Greece

*Athanasiou M.*

**13:15-13:45**

Lunch break

**13:45-14:00**

Photo shooting of the Conference Participants

**14:00-15:00**

Poster Session

Session III

**The Greek Flora and the "Flora of Greece project" – Phylogeny, Plant Taxonomy, Phylogeography**

*Chairs: Dimopoulos P., Constantinidis Th.*

**15:00-15:15**

Current floristic exploration of Greece

*Strid A.*

**15:15-15:30**

The Greek Flora and the first volume of the "Flora of Greece"

*Dimopoulos P., Constantinidis Th., Raus Th.*

**15:30-15:45**

Exploring and registering the Greek Flora: Case studies and experience from the study of the genus *Allium*

*Tzanoudakis D.*

**15:45-16:00**

Araliaceae in Greece revisited for the first volume of the "Flora of Greece"

*Raus Th.*

**16:00-16:15**

An introduction to the genus *Verbascum* L.

*Zografidis A.*

**16:15-16:30**

Integrated taxonomy of *Dianthus* (Caryophyllaceae): The Cretan *Dianthus juniperinus* – *suffruticosus* group is monophyletic but the suffruticose life form evolved multiple times

*Fassou G., Korotkova N., Dimopoulos P., Borsch Th.*

**16:30-16:45**

Geographical differentiation of fir populations (*Abies* sp.) from Greece, based on molecular markers

*Siskas E., Sarropoulou P., Tasiouli A., Drouzas A.D.*

**16:45-17:00**

Epigenetics and speciation - phenotypic differentiation: unraveling diversification of species beyond genes empire

*Avramidou E.V.*

**17:00-17:15**

Break

Session IV

Plants and Applied Science – Training, Awareness

Chairs: Koulelis P., Rizopoulou S.

17:15-17:30

Collecting and regenerating the *Allium ampeloprasum* complex from Greece, its centre of biodiversity

Tzanoudakis D., Kik C.

17:30-17:45

Identification and quantification of heartwood diterpenic acids in four Black pine (*Pinus nigra* Arn.) marginal provenances in Greece using high-throughput 1H-NMR

Ioannidis K., Melliou E., Magiatis P.

17:45-18:00

Antimicrobial activity of propolis and selected aromatic and medicinal plants

Mamoucha S., Liapis V., Prombona A.

18:00-18:15

The Botanical Sense of Place stands with education against plant blindness

Tsikalaki K., Rhizopoulou S.

18:15-19:30

General Assembly of the Hellenic Botanical Society

21:00

Conference Dinner

Saturday 12th October 2019

Session V

Cell biology – Physiology – Ecophysiology – Biochemistry

Chairs: Giannoutsou E., Adamakis S.I.-D.

9:00-9:15

Callose and pectin epitopes distribution in stomatal complexes of *Zea mays* and *Vigna sinensis*

Giannoutsou E., Sotiriou P., Nikolakopoulou T.L., Galatis B., Apostolakos P.

9:15-9:30

*Pancratium maritimum* L.: Study of ecophysiological characteristics under induced salinity stress

Pouris J., Rhizopoulou S.

9:30-9:45

Effects of honeydew producing insect *Marchalina hellenica* (Gennadius) to physiological parameters of Aleppo pine (*Pinus halepensis* Mill.)

Lyrou F.G., Radoglou K., Avtzis D.N., Spyroglou G., Andreadi A., Fotelli M.N.

9:45-10:00

Comparative study of ecosystem dynamics between two Aleppo pine forests in Greece and Israel with the use of the eddy covariance technique

Markos N., Radoglou K., Preisler Y., Rotenberg E., Yakir D.

10:00-10:15

Preliminary observations on the effects of cyanobacterial Volatile Organic Compounds (VOCs) on *Arabidopsis thaliana*

Pappas D., Adamakis S. I.-D., Gkelis S., Kaloudis T., Panteris E.-N.

Session VI

Phycology-Mycology

Chairs: Soulioti N., Gonou-Zagou Z.

10:15-10:30

The Fungal Culture Collections as genetic resources repositories and their contribution to biodiversity conservation and sustainable exploitation of Fungi. The case of the Mycetotheca ATHUM

Gonou-Zagou Z.

10:30-10:45

Humans' invisible companions in their residences

Pyrri I., Stamatelopoulou A., Pardali D., Maggos T.

10:45-11:00

Mapping and assessing the conservation status of selected species of macromycetes of Greece

Theodorou O., Andriopoulos P., Gonou-Zagou Z.

11:00-11:15

The destructive implications of the invasion of the fungus *Ceratocystis platani* in natural ecosystems of oriental plane in Greece

Soulioti N., Tsopelas P.

11:15-11:30

Break

### Session VII

**Cultivation and biotechnological applications of algae and aquatic plants in the context of circular bio-economy**

Chairs: Soulioti N., Gonou-Zagou Z.

11:30-11:45

Effect of glycerol and light intensity on growth of *Arthrospira* (*Spirulina*) *platensis*

Kougia E., Chatzipavlidis I., Markou G.

11:45-12:00

Differences of photochemical efficiency of two shade-acclimated commercial seaweeds (*Ulva* sp., *Chondracanthus teedei*) under light stress: first results

Malea L., Nakou K., Orfanidis S.

12:00-12:15

The microalgae strain bank ATHU-AL of the University of Athens (NKUA)

Chantzistroutsidou X., Lamprinou V., Tzovenis I., Economou-Amilli A.

12:15-12:30

Diversity and distribution of the genus *Gambierdiscus* in the Eastern Mediterranean

Koutounidou S., Vetas D., Kappas I., Arsenakis M., Aligizaki K.

12:30-12:45

Effects of salt stress on the ultrastructure of the seagrasses *Cymodocea nodosa* and *Ruppia cirrhosa*

Koutalianou M., Tsioli T., Orfanidis S., Katsaros C.

12:45-13:45

Round Table: Citizen Science

Chairs: Gonou-Zagou Z., Lytras A., Pyrri I.

13:45-14:30

Light Lunch

14:30-15:15

Poster Session

15:15-16:45

Round Table:

Action Plan for the habitat type 2250: "Actions and measures for the conservation management of the priority habitat type 2250\* (Coastal sand dunes of *Juniperus* spp.)"

Chairs: Dimopoulos P., Tsiripidis I.

16:45-17:00

End of Conference

18:00-20:00

Guided visit at the Acropolis Museum

### Sunday 13th October 2019

10:00-10:15

Meeting point at the terminal of bus 224 in Kessariani and hiking to the Philodassiki Enosi Athinon - Monastery of Kessariani. Those who do not wish to walk can come directly to the Monastery of Kessariani at 11.00.

11:00-11:15

Meeting point at the Philodassiki Enosi Athinon

11:15-13:15

Guided visit at the Monastery of Kessariani, Tour at the Botanical Paths of Mt Hymettus – Botanical Garden of the Philodassiki Enosi Athinon.

13:15-15:00

Light Lunch, offered by the Philodassiki Enosi Athinon

## Posters

1. **The effect of land abandonment on structure and functional diversity of herbaceous plant communities in olive groves in Lesbos**  
*Bellino F., Bhowmik S., Bishop G., Black B., Costa dos Santos P., de la Gandara N., Hoppe J., Irvine R., Kong L., Morry A., Nacke L., Njunge T., Oertel G., Rocoffort de Vinniere C., Shehata R., Velandar S., Wilmot J., Galanidis A., Fyllas N.M., Dimitrakopoulos P.G.*
2. **A taxonomic workflow using structured data to generate a treatment for *Bupleurum* (Apiaceae) in Greece**  
*Borsch T., Raus T., Dimopoulos P.*
3. **Diversity and Ecosystem Services of the Flora of Greece: the case study of the endemic Lamiaceae**  
*Cheminal A., Kokkoris I., Zografidis A., Dimopoulos P.*
4. **Genetic diversity of *Agrostis canina* under different grazing intensities in grasslands of Northern Greece**  
*Avramidou E., Mposmali E., Madesis P., Abraham E.M.*
5. **The atypical morphology and ontogeny of the stomata complexes in the *Arabidopsis thaliana* katanin mutant fra2**  
*Anezakis N., Giannoutsou E., Sotiriou P., Adamakis S. I.-D.*
6. **Recording of trees and shrubs and mapping of thickets and experimental plantations in the Forest Research Institute**  
*Argyropoulou M., Tsonoglou D., Theodoropoulos K., Eleftheriadou E., Xystrakis F.*
7. **Morphological variability of *Dryas octopetala* in Greece**  
*Varsamis G., Tseniklidou K., Merou Th., Tsiftsis S.*
8. **The traditional pharmaceutical uses and therapeutic actions of indigenous plant species of Cyprus**  
*Vasileiou P., Kyriakou K., Nikiforou C.*
9. **The pharmaceutical uses of alkaloids: the case of Cyprus indigenous flora**  
*Vasileiou C., Nikiforou C.*
10. **Mediterranean refugia**  
*Vlachou S., Kokkoris I.P., Kougoumoutzis K., Dimopoulos P.*
11. **Plant communities of Mount Parnitha *Abies cephalonica* forest – ten years after the 2007 fire**  
*Giannouli E., Kazanis D., Christopoulou A., Arianoutsou M.*
12. **Taxonomic diversity of *Tripleurospermum* (Asteraceae) in Greece: morphology and karyology**  
*Goula K., Constantinidis T.*
13. ***Airopsis tenella* (Poaceae), a new record for the flora of Greece**  
*Damianidis Ch., Samaras D.A., Theodoropoulos K., Eleftheriadou E.*
14. **From religion to conservation: applying Ostrom's framework to the sacred beech forest of Greveniti, E. Zagori**  
*Efthymiou A., Marini-Govigli V., Stara K., Halley J.M.*
15. **Ecological status assessment of the Laeotic peninsula (Attiki) area based on plant-species indicators**  
*Zachariadou A., Kougoumoutzis K., Spanou S.*
16. **Athens International Airport "Eleftherios Venizelos" as an area of interest for important orchid species of Attica**  
*Zachariadou T., Tsiftsis S., Anagnostopoulos A.*
17. **Assessment of the structural stability of woody vegetation species in urban ecosystems using non-invasive methods**  
*Zevgolis Y., Alsamail Z.M., Zannetos P.S., Troumbis A.Y.*
18. **Composition, structure and regeneration of juniper communities (*Juniperus* spp.) in coastal dunes: the case of Alyko, Naxos**  
*Zevgolis Y., Michelaki C., Zannetos P.S.*
19. **Rediscovery of two rare Greek endemic species of *Verbascum* L.**  
*Zografidis A., Polymenakos K., Zarkos G., Dimopoulos P.*
20. **Mapping and evaluation of ecosystems and their services on the island of Antikythera**  
*Iliadou E., Kontopanou A., Kokkoris I., Dimopoulos P.*
21. **Airborne fungi in closed bookstacks and collection vaults of the National Library of Greece (SNFCC)**  
*Iliopoulou S., Kapsanaki-Gotsi E., Pyrris I.*
22. **Isolation of native strains of entomopathogenic fungi for exploitation in biological control of fungal diseases insect vectors in forest trees**  
*Kaltsouda E., Gonou-Zagou Z.*
23. **The role of the endemic species in ecosystem services**  
*Kontopanou A., Iliadou E., Kokkoris I., Panitsa M., Dimopoulos P.*

24. **Chasmophytic plant species richness and their functional traits in the Aegean**  
*Kontopanou A., Panitsa M.*
25. **Species on the brink of extinction: Integrated approach and initial assessment**  
*Kougioumoutzis K., Papadaki Ch., Alexiou I., Kelaidi G., Proios K., Triantis K.A., Parmakelis A.*
26. **Airborne fungi in reading rooms of the National Library of Greece (SNFCC)**  
*Kourteli M., Kapsanaki-Gotsi E., Pyrri I.*
27. **Abnormal cytokinesis in fra2 katanin mutant of *Arabidopsis thaliana***  
*Kouskouveli A., Panteris E.-N.*
28. ***Ferulago trachycarpa* (Apiaceae), a new record for Kriti and Europe**  
*Constantinidis Th., Kalpoutzakis E.*
29. **Macrofungal diversity in the peninsula of Paliki (Kefalonia)**  
*Magdalinou E., Gonou-Zagou Z.*
30. **AlgaeCeuticals: Development of microalgae-based natural UV Sunscreens and Proteins as cosmeceuticals and nutraceuticals**  
*Madesis P., Stavridou E., Bosmali E., Labrou N., Ceracino L., Salmaso N., Palmieri L., Fluch S., Ruiz P.F., San Martin A.M., Mullor J.L., Vagioni N., Chatzikonstantinou M., Martens S.*
31. **Biocontrol of the plant parasitic root-knot nematode *Meloidogyne incognita* in wild-type and katanin mutant *Arabidopsis thaliana* L. plants, using indigenous streptomycetes strains**  
*Meidani Ch., Savvides A.L., Katsifas E.A., Labropoulou E., Giannoutsou H., Ntalli N., Adamakis S. I.-D., Karagouni-Kirtsou A.*
32. **The Herbarium of the Goulandris Natural History Museum (ATH) - History and content**  
*Mermygkas D.*
33. **Flora of urban and suburban areas of Greece: a preliminary report on Chalandri, Attica**  
*Bali Th., Bazos I., Constantinidis Th.*
34. **The ecology of the abandoned saltworks of Anavissos. A rare ecosystem of Attiki ideal for implementing educational activities**  
*Baliouis E.*
35. **The flora of the streams of Attiki as a means of assessing their ecological status. Applications in education**  
*Baliouis E.*
36. ***Aethionema saxatile* subsp. *rhodopaeum* (Brassicaceae) and *Saponaria stranjensis* (Caryophyllaceae), two new records for the Greek flora**  
*Doumas P., Constantinidis Th.*
37. **Plant taxa as protection objects of the terrestrial Special Areas of Conservation (SACs) in the region of Peloponnese**  
*Xystrakis F., Delipetrou P., Skokou N., Chlykas N., Georghiou K.*
38. **Open Science means social empowerment: The case of Theophrastus repository**  
*Panayiotopoulou D.*
39. **Biotreatment of brewery wastewater using the filamentous cyanobacterium *Leptolyngbya* sp.**  
*Papadopoulos K.P., Kotroni E., Vassi E., Economou Ch.N., Moustaka-Gouni M., Tekerlekopoulou A.G., Vayenas D.V.*
40. **Fungi & Orchids: An essential mycorrhizal relationship**  
*Papadopoulou E., Gonou-Zagou Z.*
41. **Leaf properties of *Ceratonia siliqua* L. as a biomonitor of air quality**  
*Papadopoulou S., Meletiou-Christou M.S., Stratakis E., Rhizopoulou S.*
42. **Determination of total phenolic component and antioxidant activity of different Greek thyme varieties**  
*Papakosta I., Mastrogianni E., Giaginis C., Vasios G.K., Poullos E.*
43. **Lake islands: Factors affecting plant species diversity**  
*Papanikolaou A., Panitsa M.*
44. **The cell wall is a target of the toxicity of a microcystin-containing cyanobacterial extract in *Oryza sativa***  
*Pappas D., Panteris E.-N., Gkelis S., Adamakis S. I.-D.*
45. **Cell wall composition of the stomatal complexes in the katanin mutant botero1 of *Arabidopsis thaliana* L.**  
*Paraskevopoulou D., Sotiriou P., Giannoutsou E., Adamakis S. I.-D.*

46. **Phytodiversity in two former army camps of Thessaloniki, Kodra and Pavlos Melas**  
*Paschalidou D., Hanlidou E.*
47. **Archaeological sites as Habitat islands: Plant species diversity of Ancient Messini (SW Peloponnisos, Greece)**  
*Pavlopoulou M.G., Panitsa M.*
48. **The effects of diclofenac on the root development and differentiation of *Arabidopsis thaliana* L.**  
*Peleki M.-E., Christodoulakis N., Adamakis I.-D.*
49. **Contribution of the planted fields of the Lignite Center of Western Macedonia to the protection of the environment and the climate change mitigation - COFORMIT**  
*Radoglou K., Markos N., Kitikidou K., Orfanoudakis M., Milios E., Fotelli M., Spyroglou G., Papadopoulos C., Kontosfyris P., Patmanidou L., Andreadou S.*
50. **The present status of woody vegetation at the campus of the American College of Greece**  
*Savvidou P., Kazanis D., Misseyanni A.*
51. **Flora of Prespa area database, NW Greece**  
*Sakellarakis F.N., Manolopoulos A., Fotiadis G., Kazoglou Y., Vrachnakis M., Swinkels C., Utermann S., Strid A., Bergmeier E.*
52. **Seed germination of the rare endangered local endemic of the Ionian islands, *Centaurea paxorum* Phitos & Georgiadis in vitro and in vivo**  
*Sarropoulou V., Maloupa E.*
53. **In vivo seed germination capacity of 4 endemic species of the Greek flora with conservation priority (Lamiaceae)**  
*Sarropoulou V., Maloupa E.*
54. **Vegetation of grassland habitat types in Mts Oiti and Kallidromo, central Greece**  
*Solomou A., Mantzanas K., Evangelou Ch., Papanastasis V., Proutsos N., Karetso G., Tsagari K., Lyrintzis G., Mantakas G., Kaoukis K.*
55. ***Allium topalianum* (A. sect. *Codonoprasum*, Amaryllidaceae), a new autumn flowering species from Andros and Evvia Islands**  
*Trigas P., Bareka E.P.*
56. **Tree registry at the Forest Botanical Garden of the Forest Research Institute of Thessaloniki**  
*Tsonoglou D., Argyropoulou M., Theodoropoulos K., Eleftheriadou E., Grigoriadis N., Spyroglou G., Xystrakis F.*
57. **Ecological niche comparison and extinction risk assessment of a rapidly diversified species complex: *Dianthus juniperinus***  
*Fassou G., Kougioumoutzis K., Kokkoris I.P., Dimopoulos P.*
58. **The chromatic pattern on petals of corn poppy (*Papaver rhoeas* L.)**  
*Chalkidis D., Adamakis S. I.-D., Rhizopoulou S.*
59. **Vascular plant diversity of Western Rhodopes (NE Greece): current state of knowledge**  
*Charalampidou Ch., Eleftheriadou E., Theodoropoulos K.*
60. ***Centaurea kotschyana* (Asteraceae), *Iris variegata* (Iridaceae), *Aruncus dioicus* (Rosaceae): three new records for the flora of Greece**  
*Chasapis M., Samaras D.A., Theodoropoulos K., Eleftheriadou E.*
61. **New records for the floristic region of North-Central Greece**  
*Chasapis M., Samaras D.A., Theodoropoulos K., Eleftheriadou E.*
62. **Effects of insect herbivory on the photosynthetic rates of two *Quercus* species**  
*Chrysafi D., Fyllas N.M.*

## CONFERENCE SPONSORS



APIVITA

