



**1st Panhellenic Scientific Meeting
of Plant Physiologists**

Agricultural University of Athens

February 7-8, 2020

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3rd Announcement

Friday February 7th – Saturday February 8th 2020

Agricultural University of Athens, Conference Centre

Iera Odos 75, Votanikos, Athens

Organizing Institutions: The Plant Physiology research teams of AUA, UoA, AUTH, DUTH, University of Patras, Crete, Thessaly, Cyprus University of Technology and Democritus.

Local Organizers: Teaching and Research staff of the Laboratory of Plant Physiology and Morphology, AUA: G. Karabourniotis, D. Bouranis, G. Liakopoulos, S. Chorianopoulou, D. Nikolopoulos, P. Bresta, M. Nikolopoulou.

Under the auspices of the Agricultural University of Athens



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Friday 7 February

09:15-10:00 Registrations and organization of presentations

10:00-10:30 Welcome session

10:00-10:10 Welcome from the Rectorate

 10:10-10:20 Welcome from the President of the Department of Crop Science
 Prof. Maria Parafotiou

 10:20-10:30 Opening address; Professor George Karabourniotis

10:30-13:55 **1st Session - Ecophysiology and Climate Change**

Chair: Y. Petropoulou and Ch. Yiotis

 10:30-11:00 ● Grammatikopoulos G. and Petropoulou Y. **Research Activity of the Laboratory of Plant Physiology of the University of Patras.**

 11:00-11:05 Chondrogiannis C. and Grammatikopoulos G. **The effect of reproductive maturation on photosynthesis of Mediterranean plants belonging to different functional types.**

 11:05-11:10 Chondrogiannis C., Kotsi K. and Petropoulou Y. **Seasonal pigment profile and leaf photoprotective potential in juvenile and adult individuals of *Cercis siliquastrum*.**

 11:10-11:40 ● Kyparissis A. **Gross primary productivity estimation by light use efficiency modeling and satellite imaging.**

11:40-12:05 Coffee break

1st Session - Ecophysiology and Climate Change (continued)

Chair: G. Grammatikopoulos and A. Kyparissis

 12:05-12:35 ● Yiotis Ch. and McElwain J. **Plant-Climate interactions through time: Past lessons, current status and future perspectives.**

 12:35-13:05 ● Radoglou K. **Research activities in Forest Ecophysiology in the last 8 years.**

 13:05-13:10 Markos N. and Radoglou K. **Development of system for the estimation of CO₂ assimilation of the restored areas of the Lignite Center of Western Macedonia with the use of the eddy covariance technique and modelling approaches.**

[●] denotes the 20 min presentations of Laboratories/Research Groups

- 13:10-13:15 Markos N. and Radoglou K. **Factors that affect the light use efficiency (LUE) for a Mediterranean Aleppo pine forest ecosystem.**
- 13:15-13:20 Doukalianou F., Radoglou K., Kitikidou K., Milios E. and Lagomarsino A. **Medium term effects of thinning implementation on soil GHG fluxes in a peri urban coniferous forest and their climate change mitigation potential.**
- 13:20-13:25 Oikonomidis S. and Thanos C.A. **The good, the bad, and the ugly: Morphometric traits of orchid seeds and their implications in seed germination behaviour.**
- 13:25-13:55 ● Rhizopoulou S. **Aspects of Plant Physiology in the Botanical Section of the Department of Biology at the National and Kapodistrian University of Athens.**
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13:55-14:30 Coffee and snack break

14:30-16:00 2nd Session - Plant Nutrition Physiology

Chair: E. Levizou and S. Chorianopoulou

- 14:30-15:00 ● Bouranis D. and Chorianopoulou S. **Bioactive ingredients in the fertilization products and their influence on crop functionality.**
- 15:00-15:30 ● Chorianopoulou S. and Bouranis D. **The success story of iron homeostasis in plants.**
- 15:30-16:00 ● Levizou E. **Research activities of the Plant Physiology Group, Dept of Agriculture Crop Production and Rural Environment, University of Thessaly.**
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16:00-17:30 Discussion: So far so good but how do we move forward?

17:30-18:30 Poster Session

18:30 End of Day 1 and Lunch



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ΕΤΑΙΡΙΑ ΑΝΤΙΠΡΟΣΩΠΕΙΩΝ ΚΑΙ
ΕΜΠΟΡΙΑΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΟΡΓΑΝΩΝ

Saturday 8 February

09:15-10:00	Registrations and organization of presentations
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10:00-13:20	3rd Session - Stress Physiology, Signal Perception & Transduction Chair: P. Tavladoraki and P. Moschou
10:00-10:30	● <u>Karabourniotis G.</u> , Nikolopoulos D., Liakopoulos G. and Bresta P. The research activity of the Plant Stress Physiology Group of the Laboratory of Plant Physiology and Morphology of AUA.
10:30-11:00	● <u>Liakopoulos G.</u> , Nikolopoulos D., Bresta P. and Karabourniotis G. I. Photosynthesis under oblique illumination: looking at the sun sideways. II. Phenolic compounds and boron inside and outside the cell.
11:00-11:05	<u>Samantas A.</u> , Giannopoulos A., Bresta P., Nikolopoulos D., Liakopoulos G. and Karabourniotis G. The dynamics of calcium carbonate cellular inclusions and alarm photosynthesis.
11:05-11:10	<u>Karakasilioti M.</u> , Bresta P., Nikolopoulos D., Liakopoulos G. and Karabourniotis G. Changes in the properties of calcium oxalate crystals and gas exchange under drought stress and subsequent recovery.
11:10-11:15	<u>Mniestri A.</u> , Kechagia B., Patsis G., Tourlou B., Nikolopoulos D., Vachamidis P., Economou G., Karabourniotis G., Bresta P. Leaf plasticity of <i>Hordeum vulgare</i> under long-term drought: an intraspecific approach.
11:15-11:20	Bresta P., <u>Nikolopoulos D.</u> , Vachamidis P., Οικονόμου Γ., Fasseas C, Karabourniotis G. Long-term acclimation of <i>Hordeum vulgare</i> under drought stress: The generalized diminution of the leaf structural components and the inevitable consequences on its function.
11:20-11:25	Moustakas M., Hanć A., Dobrikova A., <u>Sperdouli I.</u> , Adamakis I.-D.S., Apostolova E. Spatial heterogeneity of photosystem II responses to cadmium exposure in <i>Salvia sclarea</i> is due to the different distribution of Cd in leaves.
11:25-11:30	<u>Sperdouli I.</u> , Moustaka J., Antonoglou O., Adamakis I.-D.S., Dendrinou-Samara K., Moustakas M. Leaf age dependent effects of CuZn nanoparticles on photosystem II function and reactive oxygen species generation.
11:30-11:35	Moustaka J., Tanou G., Giannakoula A., <u>Adamakis I.-D.S.</u> , Panteris E., Eleftheriou E.P. and Moustakas M., The functional role of anthocyanins in photo-oxidative stress.

11:35-12:00	Coffee brake
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**3rd Session - Stress Physiology, Signal Perception & Transduction
(continued)**

Chair: G. Liakopoulos and K. Karamanoli

- 12:00-12:30 ● Angelini R., Cona A., D'Inca R., Fraudentali I., Mattioli R., Tavladoraki P. **Polyamine metabolism in plant development and defence responses.**
- 12:30-13:00 ● Antoniou C., Savvides A., Georgiadou E., Ioannou A., Fotopoulos V. **H Research Activity of the Plant Stress Physiology Group at the Cyprus University of Technology.**
- 13:00-13:05 Ioannou A., Antoniou C., Inzé D., Fotopoulos V. **Seed priming towards enhanced growth promotion and stress protection.**
- 13:05-13:10 Dervisi I. and Roussis A. **Interaction of phospholipase DALL3 with Selenium Binding Protein 1.**
- 13:10-13:15 Liu C., Törnkvist A., Chatzianestis I., Boucetta M.M., Tzelepis G., Fernandez A., Stael S., Minina E.A., Reza S.H., Gutierrez-Beltran E., Castel B., Tomlinson L., Van Heusegem F., Piffman T., Bozhkov P.V., Jones J.D., Moschou P.N. **Limited proteolysis by metacaspases modulates salt tolerance.**
- 13:15-13:20 Tympa L., Liu C., Moschou P.N. **Kinesin-separase complex modulates light signaling.**
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13:20-14:20 4th Session - Genetics, Evolution and Developmental Biology

Chair: G. Liakopoulos and K. Karamanoli

- 13:20-13:50 ● Moschou P.N. **Registering cell dimensions and shapes with catabolic processes: from single molecules to organismal levels.**
- 13:50-14:20 ● Verret F., Ioannidis N., Mavrothalassiti E., Daskalaki M.G., Glampedakis N., Topalis P., Kotzabasis K. and Kalantidis K. **Systemic transgene silencing *Nicotiana benthamiana* is associated with transcriptional reprogramming of genes involved in antiviral responses.**
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14:20-15:00 Coffee and snack break

15:00-15:40 5th Session - Plant-microorganisms interactions

Chair: K. Papadopoulou and K. Stamatakis

- 15:00-15:30 ● Karamanoli K. and Constantinidou H.I. **Important interactions in the lab of Agricultural Chemistry: The team of Plant Physiology.**
- 15:30-15:35 Papadopoulou A., Kamou N., Leontidou K., Genitsaris S., Mellidou I. and Karamanoli K. **The effect of plant Growth Promoting Rhizobacteria (PGPR) on tomato seedlings grown under drought stress.**

15:35-15:40 Kokalas V., Junker R., Farre Armengol G., Kovaïos D. and Karamanoli K. **Phyllospheric bacteria affect volatiles released from bean leaves and spider mite *Tetranychus urticae* performance on bean leaves.**

15:40-18:00 6th Session - Biochemistry, Metabolism, Membranes & Cell Biology

Chair: K. Papadopoulou and K. Stamatakis

15:40-16:10 ● Kotzabasis K. **Dancing with photons: From photosynthetic energy management to 'smart' biotechnology and astrobiology.**

16:10-16:40 ● Stamatakis K., Broussos P., Giakoumidaki-Vogiatzi K. and Papageorgiou G.C. **Photosynthesis basic research and applications.**

16:40-16:45 Broussos P. and Stamatakis K. **Study of hydrogen production by cyanobacteria.**

16:45-16:50 Giakoumidaki-Vogiatzi K. and Stamatakis K. **Studies on the photosynthesis of cyanobacteria capable for producing terpene.**

16:50-17:20 ● Papadopoulou K. **Research in plant physiology at the Plant and Environmental Biotechnology Lab of the Department of Biochemistry and Biotechnology, Univ. of Thessaly.**

17:20-17:50 ● Tooulakou G., Papadimitropoulos M.E., Pappas I., Klapa M.I. **Metabolomics and Abiotic Stresses in plants: Investigating the salinity effect on tomato (*Solanum lycopersicum*) as case-study.**

17:50-17:55 Koutra E., Psathas E., Kornaros M. and Grammatikopoulos G. **The photosynthetic profile of microalgae used for bioremediation and valorization of anaerobically digested agro-industrial and municipal organic wastes.**

17:55-18:00 Liu C., Törnkvist A., Chatzianestis I., Mentzelopoulou A., Scaltsogiannis V., Tympa L., Deli A., Spyridoula C. and Moschou P.N. **A developmental module regulating cell polarity.**

18:00 End of Day 2 - End of Meeting

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