



XV SIMPÓSIO LUSO-ESPANHOL de nutrição mineral das plantas

6 a 8 de Dezembro, Lisboa 2014

PROGRAMME

All the lectures will take place at Faculdade de Ciências da Universidade de Lisboa, Campo Grande, Bloco C6, Lisboa

6 December 2014 (Saturday)

08:30 – 10:00	Registration
---------------	--------------

Opening ceremony

Chairperson: Maria Amélia Martins-Loução

Plenary lecture

10:00 – 11:00	Philip White	Plant Nutritional Genomics for Food Security
---------------	--------------	--

11:00 – 11:30	Coffee break and Posters	
---------------	---------------------------------	--

Session 1-A: The physiology and molecular biology of plant nutrition

Invited lectures

11:30 – 12:00	M ^a Begoña González Moro	Different nitrogen status in ammonium- and nitrate-fed tomato plants under elevated CO ₂
---------------	-------------------------------------	---

12:00 – 12:30	Manuel González-Guerrero	<i>Medicago truncatula</i> MtNramp1 mediates iron uptake by rhizobia-infected nodule cells
---------------	--------------------------	--

Oral communications

12:30-12:50	Dirceu Mattos Jr	Absorption of boron and potassium and the relationship with the H ⁺ -ATPase activity of citrus rootstocks
-------------	------------------	--

12:50- 13:10	Isidro Abreu	B deprivation disorganizes <i>Arabidopsis</i> root meristem
--------------	--------------	---

13:10 – 13:30	Glória Esquível	Effects of water mine dissolved elements in <i>Chlamydomonas reinhardtii</i> physiological processes
---------------	-----------------	--

13:30 – 15:00	Lunch and Posters	
---------------	--------------------------	--

Chairperson: Carmen Moroa

Session 1-B: The physiology and molecular biology of plant nutrition

Invited lectures

15:00 – 15:30	Cátia Nunes	The T6P/ SnRK1 signaling pathway under nitrogen deficiency
---------------	-------------	--



XV SIMPÓSIO LUSO-ESPANHOL de nutrição mineral das plantas

6 a 8 de Dezembro, Lisboa 2014

15:30 – 16:00	Micaela Carvajal	Complex nanoparticle-plants interaction: effect of multiwall carbon nanotubes on broccoli plants
16:00 – 17:00	Coffee break and Posters	

Oral communications

17:00 – 17:20	Florinda Gama	Ferric chelate reductase gene, FRO1, silencing in <i>Nicotiana benthamiana</i> under iron deficiency
17:20 – 17:40	Nieves Aranda Sicilia	K ⁺ /H ⁺ antiporters AtKEA1 and AtKEA2 are important for chloroplast development and photosynthesis
17:40 – 18:00	Arnoldo Façanha	A new role for the proton pumps in plant nutrition and root-soil interactions

7 December 2014 (Sunday) – Sponsored by ASFERT Global



Chairperson: Anabela Silva

Plenary lecture

9:30 – 10:00	Arnoud Passenier	European Phosphorus Platform
--------------	------------------	------------------------------

Session 3-A: Agricultural systems and nutrient management

Invited lectures

10:00 – 10:30	Mário de Carvalho	Nitrogen use efficiency in cereals production under Mediterranean conditions
10:30 – 11:00	Henrique Trindade	Gestão da nutrição azotada das plantas e impacte ambiental - uma perspectiva agronómica
11:00 – 11:40	Coffee break and Posters	

Oral communications

11:40-12:00	Sandra Carrasco-Gil	Effect of individual and combined Fe and Mn foliar treatments on metal-deficient tomato plants
12:00- 12:20	Pedro Henrique de Cerqueira Luz	Identificação da deficiência de Zinco em milho com o uso de um sistema de inteligência artificial
12:20 – 12:40	Francisco M. del Amor	CARBGROWTH. The dawn of a new concept of sustainable Mediterranean greenhouse production



XV SIMPÓSIO LUSO-ESPANHOL de nutrição mineral das plantas

6 a 8 de Dezembro, Lisboa 2014

12:40 – 13:00	M. Ângelo Rodrigues	Estabelecimento de concentrações críticas e intervalos de suficiência para plantas aromáticas e medicinais
13:00 – 14:30	Lunch and Posters	
Chair person: Pedro Aparício-Tejo		

Plenary lecture

14:30 – 15:00	Ana Álvarez-Fernández	Plant root release of phenolics and flavins upon Fe deficiency
---------------	-----------------------	--

Session 3-B: Agricultural systems and nutrient management Invited lectures

15:00 – 15:30	Laura B. Martínez-García	Different mycorrhizal fungal strains determine plant community response to nitrogen and water availability
15:30 – 16:00	Alessandro Ramos	Papel dos ácidos húmicos na regulação do crescimento e ionoma de duas espécies de fungos ectomicorrizicos
16:00 – 16:40	Coffee break and Posters	

Oral Communications

16:40 – 17:00	Florian Ulm	Nurturing plants in the Permaculture way: The HortaFCUL case study
17:00 – 17:20	Maria Amélia Martins-Loução	How to ask sensitive questions about N threats in the environment: the application of social methodologies
17:20 – 17:40	Pedro Aparício-Tejo	Uma vida dedicada à ciência
17:40 – 18:00	Cristina Cruz	Amónia: um sinal ou molécula facilitadora da comunicação?
20:00 – 22:30	Gala dinner - Cervejaria Trindade (http://www.cervejariatrindade.pt/)	

8 December 2014 (Monday)

Chairperson: Ildefonso Bonilla

Plenary lecture

9:30 – 10:00	João Coutinho	Limitações da análise de solos na avaliação da fertilidade do solo
--------------	---------------	--



XV SIMPÓSIO LUSO-ESPANHOL de nutrição mineral das plantas

6 a 8 de Dezembro, Lisboa 2014

Session 4: Plant nutrition: fertilizers vs biofertilizers

Invited lecture

10:00 – 10:30	David Fanguero	Impact of animal slurry treatment on plant nutrients availability
---------------	----------------	---

Oral communications

10:30 – 10:50	Juan José Rios	Stomatal guard cells are involved in Fe uptake from foliar fertilizers in Prunus rootstock leaves
10:50 – 11:30	Coffee break and Posters	
11:30 – 11:50	Luís Carvalho	Interações planta-microrganismos-microrganismos e o desenvolvimento de biofertilizantes
11:50 – 13:00	Round table with companies	
13:00 – 15:00	Lunch and Posters	

Chairperson: Luís Carvalho

Session 5: Plant nutrition and environment

Invited lecture

15:00 – 15:30	Teresa Dias	Ammonium tolerance varies between co-existing Mediterranean plant species
---------------	-------------	---

Oral communications

15:30 – 15:50	Catarina Gouveia	In quest for phosphorus: The role of P solubilizing bacteria in helping plants accessing P in an N-enriched Mediterranean ecosystem
15:50 – 16:10	Unai Artetxe	Efecto de enmiendas orgánicas y/o bacterias promotoras del crecimiento en plantas (PGPB) en poblaciones metalícolas y no metalícolas de Festuca rubra creciendo en suelos mineros
16:10 – 16:30	Florian Ulm	<i>Acacia longifolia</i> increases the nitrogen input into the surrounding plant community by acceleration of soil organic matter breakdown
16:30 – 16:40	Closure Ceremony	