

Final Program

# Global Conference on Plant Science and Research

*Theme: Recent Trends & Latest Innovations in Plant Science*



**September  
23-25, 2019  
Valencia, Spain**

Venue:  
**Eurostars Rey Don Jaime**, Av. de les Balears, 2,  
46023 València, Spain

 @PlantScienceCo2

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<https://irisscientificgroup.com/conferences/plantscience/>

08:00-08:40 Registrations

08:40-09:00 Introduction

Moderator: Saoussen Ben Tiba, University of Carthage, Tunisia

**Keynote Presentations**

- 09:00-09:40 **Title: One-step metabolic engineering for genetic improvement of hybrid poplar to increase carbon and nitrogen assimilation, and biomass production**  
Subhash C. Minocha, University of New Hampshire, USA
- 09:40-10:20 **Title: Soil phosphorus management for agricultural and environmental sustainability**  
Rao Mylavarapu, IFAS University of Florida, USA
- 10:20-11:00 **Title: Developing healthier oils and other food ingredients through genome editing**  
Javier Gil Humanes, Calyxt Inc., USA

**Group Photo**

Coffee Break 11:00-11:30 @ Foyer

**Oral Presentations**

Sessions on: Microbiology and Mycology | Plant Tissue Culture & Biotechnology | Plant Nutrition and Crop- Soil Science

Session Chairs: Javier Gil Humanes, Calyxt Inc., USA

C.A. Jayaprakas, ICAR-Central Tuber Crops Research Institute, India

- 11:30-11:55 **Title: Identifying key mechanisms of interaction in L. asiaticus-citrus pathosystem**  
Claudio F. Gonzalez, IFAS University of Florida, USA
- 11:55-12:20 **Title: The potential of novel african isolates of phthorimaea operculella granulovirus and spodoptera littoralis nucleopolyhedrovirus for the control of tomato pests**  
Saoussen Ben Tiba, University of Carthage, Tunisia
- 12:20-12:45 **Title: Recent trends in the edible flower chain: First results of the ANTEA project**  
Andrea Copetta, CREA – Research Centre for Vegetable and Ornamental Crops, Italy
- 12:45-13:10 **Title: Medicinal plants: Ex situ production of bioactive molecules**  
Boualem HARFI, Biotechnology Research Center (C.R.Bt – Constantine), ALGERIA

Lunch Break 13:10-14:00 @ Restaurant

- 14:00-14:25 **Title: In vitro screening of mutant medicago sativa genotypes for drought stress tolerance at germination stage**  
Iskender TIRYAKI, Canakkale Onsekiz Mart University, Turkey
- 14:25-14:50 **Title: Volatile Organic Compounds (VOCs) induced by abiotic stress in carica papaya L.**  
Chikodinaka Nkechinyere Okereke, Estonian University of Life Sciences, Estonia
- 14:50-15:15 **Title: New statistical methodologies for improve plant science experiments**  
Marta Elva Ramirez Guzman, Colegio de Postgraduados, Mexico
- 15:15-15:40 **Title: Mercury accumulation by plants depending on its speciation in growing substrate**  
Olga V. Shuvaeva, Nikolaev Institute of Inorganic Chemistry, Russia
- 15:40-16:05 **Title: Comprehensive characterization by RP-UHPLC-ESI-Q-TOF-MS/MS from ammoides atlantica extract and their antioxidant activities**  
Tarek BOUDIAR, Biotechnology Research Center (C.R.Bt – Constantine), ALGERIA
- 16:05-16:30 **Title: Prunus rootstocks and resistance to abiotic stresses**  
Mauricio Ortiz, CEAF, Chile

Coffee Break 16:30-17:00 @ Foyer

**End Of Day 1**

Moderator: Saoussen Ben Tiba, University of Carthage, Tunisia

### Keynote Presentations

- 09:00-09:40 **Title: Cereal grains to combat diet-related chronic diseases and intolerances**  
Philip Larkin, CSIRO Agriculture & Food, Australia
- 09:40-10:20 **Title: Cassava (*Manihot esculenta* Crantz) - A future crop for harvesting insecticidal molecules against pests of horticultural crops**  
C.A. Jayaprakas, ICAR-Central Tuber Crops Research Institute, India
- 10:20-11:00 **Title: Nano technology a new tool for improving agricultural sector**  
Waleed Fouad Abobatta, Agriculture Research Center, Egypt

Coffee Break 11:00-11:30 @ Foyer

### Oral Presentations

Sessions on: Plant Genetics and Genomics | Advance Plant and Forest Ecology | Plant Morphology and Metabolism

Session Chairs: Subhash C. Minocha, University of New Hampshire, USA

- 11:30-11:55 **Title: Investigating the role of the serine protease inhibitor, Bowman-Birk Inhibitor (BBI), in *Arabidopsis* under drought stress**  
Matome Eugene Makgopa, University of Pretoria, South Africa
- 11:55-12:20 **Title: A microfluidic lab-on-chip device for investigation of plant pathogenic fungi on the single spore/conidia level**  
Sehrish Iftikhar, Elvsys Microfluidics Innovation Center, France
- 12:20-12:45 **Title: Morphological and anatomical characters of *Rauwolfia serpentina* Benth. ex Kruz. and its growth under the effect of nickel and cadmium**  
Milvee Killolkumar Vyas, V.N.S.G. University, India
- 12:45-13:10 **Title: The impact of biotechnology on seed industry in South East Asia**  
Chua Kim Aik, Green Wolrd Genetics Sdn, Bhd, Malaysia

Lunch Break 13:10-14:00 @ Restaurant

- 14:00-14:25 **Title: The climate change challenge for crop resilience**  
Robert Redden, RJR Agriculture Consultants, Australia
- 14:25-14:50 **Title: Multiphasic ion activities underlie discontinuous activation profiles of a wide variety of processes and phenomena**  
Per Nissen, Norwegian University of Life Sciences, Norway
- 14:50-15:15 **Title: Response of maize (*zea mays* L.) to nitrogen fertilization an foliar spray with urea and zinc**  
Elsayed Gheith, Cairo University, Egypt
- 15:15-15:40 **Title: Transgene-free agrobacterium-mediated genome-editing in potato**  
Zsófia Bánfalvi, NARIC Agricultural Biotechnology Institute, Hungary
- 15:40-16:05 **Title: Apomixis: How important it is for the generation and conservation of biodiversity in the neotropics**  
Fabiana Firetti, State University of Sao Paulo(UNESP), Brazil

### Poster Presentations 16:05-17:00

- P001 **Title: Assessment of qualitative and quantitative changes in DNA sequence and methylation in barley regenerants based on MSTD**  
Renata Orłowska, Plant Breeding and Acclimatization Institute-National Research Institute, Poland
- P002 **Title: Bioactivity and phytochemical studies of plants used in the treatment of sexually transmitted infections**  
Thilivhali Emmanuel Tshikalange, University of Pretoria, South Africa
- P003 **Title: Analyse the role of transcription factors in enhancing drought tolerance in sugarcane (*Saccharum* spp.)**  
Nelisa Mbambalala, Stellenbosch University, South Africa

- P004** **Title: Study of the antagonistic effect of *Trichoderma* spp. against *Fusarium* spp. Involved IN *Fusarium* head blight and root rot of wheat**  
Renane Rachida, Ecole Nationale Superieure D`Agronomie, Algeria
- P005** **Title: In vitro regeneration of *solanum tuberosum* L. in culture medium made from the ashes of plants**  
Belguendouz Amina, University Abou Bekr Belkaid Tlemcen, Algeria
- P006** **Title: Secondary metabolites of *Tribulus terrestris* growing in Georgia**  
Vazha Nebieridze, The University of Georgia, Georgia
- P007** **Title: Chemical investigation of the flowers of *Yucca elephantipes* Regel., cultivated in Georgia**  
Vazha Nebieridze, The University of Georgia, Georgia
- P008** **Title: Performance of some herbicides on wheat and associated weeds**  
Ola Z. El-Badry, Cairo University, Egypt
- P009** **Title: Organic cultivation of *Moringa* oil for food systems developed in soils and climates of the province of Valencia**  
Maria Desamparados Soto, Polytechnic University of Valencia, Spain
- P010** **Title: Identification of toxic compounds and potentially microorganism inhibitors in *Barkleyanthus salicifolius***  
Castañeda-Antonio Dolores, Universidad Autónoma de Puebla (BUAP), Mexico

Coffee Break 16:30-17:00 @ Foyer

End Of Day 2

Day 3 September 25, 2019 | SOROLLA 2

Oral Presentations

Sessions on: Plant Molecular Biology and Biochemistry | Plant Nanotechnology | Plant Pathology

- 09:00-09:25** **Title: Geography and geology, ecological resources of the wine territory: The case of the alto adige DOC wine region in Italy**  
Carlo G. Ferretti, Geo Identity Research, Italy
- 09:25-09:50** **Title: Agriculture as a potential means to manage electric energy networks**  
Rainer Wiechers, InBuTecS GmbH, Germany
- 09:50-10:15** **Title: Spatial and structural aspects of plant communities: A methodological study proposal**  
Franco Zavagno, il canneto di Zavagno F., Italy
- 10:15-10:40** **Title: The relationship between rainfall and tree species diversity of the Zambezi teak forests in Zambia**  
Justine Ngoma, The Copperbelt University, Zambia
- 10:40-11:05** **Title: Improving seed treatment methods: A key factor to reduce the risk to honey bees and other pollinators to maintain biodiversity**  
Hayder Abdelgader, Agricultural Research Corporation, Sudan

Coffee Break 11:05-11:30 @ Foyer

- 11:30-11:55** **Title: The role of documentation for conservation and sustainable use of plant genetic resources: Challenges and opportunity in context of current global situation**  
Gabriela Romanciuc, Institute of Genetics, Physiology and Plant Protection, Republic of Moldova
- 11:55-12:20** **Title: Effect of powder preparation of clove, ginger, garad and galangal on the infestation of sorghum grains caused by khapra beetle larvae *trogoderma granarium***  
Faiza E. E. Salah, University of Gezira, Sudan
- 12:20-12:45** **Title: Use of mobile applications to recover degraded areas in developing country biomes**  
Roberta Sorhaia Samayara Sousa Rocha, UTFPR, Brazil

Lunch Break 12:45-13:45 @ Restaurant

End Of Day 3