3rd Global Summit on

**Plant Science**

August 07-09, 2017  Rome, Italy
# Keynote Forum

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker &amp; Institution</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Introduction</td>
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<tr>
<td>09:10</td>
<td>Rapid development of a castor cultivar with increased oil content</td>
<td>Grace Chen, U.S. Department of Agriculture, USA</td>
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<tr>
<td>09:40</td>
<td>Natural products from Brazilian biodiversity, a source of new templates for medicinal chemistry</td>
<td>Vanderlan da S. Bolzani, Sao Paulo State University, Brazil</td>
</tr>
<tr>
<td>10:10</td>
<td>Plant phenolics: New remedies for old disease</td>
<td>Djebar Atmani, University of Bejaia, Algeria</td>
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### Session Introduction

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:05</td>
<td>Enhancing NGS performance through improvements in template preparation procedure</td>
<td>Caroline Janitz, Western Sydney University, Australia</td>
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<tr>
<td>11:30</td>
<td>Physiological impacts on coffee plants submitted to water deficiency</td>
<td>Fernando Broetto, Sao Paulo State University, Brazil</td>
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<tr>
<td>11:55</td>
<td>What is the best possible response of plants to combined stresses? Indeed the simplest one</td>
<td>Petronia Carillo, University of Campania, Italy</td>
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### Workshop on

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<th>Time</th>
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<tbody>
<tr>
<td>12:20</td>
<td>Next-Generation sequencing—basics &amp; applications: Tools and technologies</td>
<td>Caroline Janitz, Western Sydney University, Australia</td>
</tr>
<tr>
<td>14:00</td>
<td>Polyamines and flavonoids of bee pollen with anti-tyrosinase and antioxidant activity</td>
<td>Mi Kyeong Lee, Chungbuk National University, South Korea</td>
</tr>
<tr>
<td>14:25</td>
<td>Cytotoxic, anti-diabetic and anti-inflammatory activities of selected Algerian medicinal plants: From traditional use to scientific validation</td>
<td>Djebar Atmani, University of Bejaia, Algeria</td>
</tr>
<tr>
<td>14:50</td>
<td>Anti-ulcer activities of a local plant from Algeria, Clematis flammul</td>
<td>Dina Atmani-Kilani, University of Bejaia, Algeria</td>
</tr>
<tr>
<td>15:15</td>
<td>Breadfruit (Artocarpus altilis) gibberellin metabolic genes: Stem elongation and abiotic stress response</td>
<td>Yuchan Zhou, University of the Sunshine Coast, Australia</td>
</tr>
</tbody>
</table>
Title: Arabidopsis root formation is altered by cadmium and arsenic
Laura Fattorini, Sapienza University of Rome, Italy
Title: Genetic engineering of PPV resistance in plum rootstock ‘Elita’ ((Prunus pumila L. x P. salicina Lindl.) x (P. cerasifera Ehrh.))
Sergey Dolgov, Nikita Botanical Gardens, Russia

Title: Determination of polyphenol composition in Hevea brasiliensis and rubber-processing effluent via spectrophotometry and spectroscopy analysis
Aidilla Mubarak, Universiti Malaysia Terengganu, Malaysia

Title: Differential localization of ethylene receptor OsERS1 and OsETR2 in rice and the expression of OsETR2 during submergence
Wing Kin Yip, University of Hong Kong, Hong Kong

Panel Discussion
Day 2 August 08, 2017
Olimpica 1

Keynote Forum

09:00-09:30
Title: Inferring salt and water distribution in an irrigated crop field using electromagnetic induction techniques
Leon D van Rensburg, University of the Free State, South Africa

09:30-10:00
Title: Production of marker-free transgenic tomato and apple plants using inducible site-specific recombinase and a bifunctional selectable gene
Sergey Dolgov, Nikita Botanical Gardens, Russia

Workshop on
10:00-10:40
Title: Salt management of irrigated soils
Leon D van Rensburg, University of the Free State, South Africa

Sessions:
Plant Pathology and Plant-Micro-Biology | Plant Morphology and Plant Metabolism | Soil Science and Soil-Plant Nutrition | Plant Breeding and Molecular Breeding | Plant Biotechnology and Plant Tissue Culture | Agricultural Science

Session Chair: Vanderlan da S. Bolzani, Sao Paulo State University, Brazil
Session Co-chair: Minkyun Kim, Seoul National University, South Korea

Session Introduction

11:00-11:25
Title: Effects of acute ozone exposure on the release of stress volatiles, and the expression of a monoterpene synthase gene in Nicotiana tabacum leaves through recovery
Arooran Kanagendran, Estonian University of Life Sciences, Estonia

11:25-11:50
Title: Study of the mechanisms underlying tomato innate immunity mediated by two Bwr12 genes
Chiu-Ping Cheng, National Taiwan University, Taiwan

11:50-12:15
Title: Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thin cell layers
Federica Della Rovere, University of Rome, Italy

12:15-12:40
Title: Complementary interaction of two starch biosynthesis genes confers a mild sugary endosperm in rice
Hee-Jong Koh, Seoul National University, South Korea

12:40-13:05
Title: Regulation of floral terpenoid emission and biosynthesis in sweet basil (Ocimum basilicum)
Jiayan Ye, Estonian University of Life Sciences, Estonia

Lunch Break 13:05-14:05 @ Restaurant

Poster Presentations 14:05-14:35 @ Foyer
Poster Judge: Vanderlan da S. Bolzani, Sao Paulo State University, Brazil

Title: Influence of plant height on chrysanthemum transformed with SHI (Short Internodes related genes)
EunJung Suh, National Institute of Agricultural Science, South Korea
Title: Genome-wide characterization of the *Brassica rapa* genes encoding serine/arginine-rich proteins: Regulation of alternative splicing events by abiotic stress and hormone treatments  
**Soo In Lee**, National Institute of Agricultural Sciences, South Korea

Title: Diploid *Perilla* de novo genome sequencing  
**Tae-Ho Kim**, National Institute of Agricultural Science, South Korea

Title: The polycistronic expression using non-mammalian viral 2A sequences for carotenoid metabolic engineering in rice plants  
**Sun-Hwa Ha**, Kyung Hee University, South Korea

Title: The effect of exogenous applications of salicylic acid at different growth stages to Iraqi wheat cv. Tamooz 2 on the up-regulation of the drought response regulon  
**Fakhriya M. Kareem**, Plymouth University, UK

Title: The effect of sowing rate and variety on the yield, protein content and height of faba beans  
**Margit Olle**, Estonian Crop Research Institute, Estonia

Title: The chemical forms of Fe used as in vivo substrate in uptake process of chloroplast  
**Brigitta Lantos**, Eotvos Lorand University, Hungary

Title: Genetic and epigenetic variability of wild and cultivated watercress (*Rorippa nasturtium aquaticum*)  
**Marcela Veronica Gutierrez Velazquez**, CIIDIR Durango, Mexico

Title: Phytochemical variation among populations of *Fouquieria splendens* Engelm (*Fouquieriaceae*)  
**Hugo Manuel Monreal Garcia**, CIIDIR Durango, Mexico

Title: High-throughput phenotyping of rice using RGB imaging  
**Kyung-Hwan Kim**, National Institute of Agricultural Sciences, South Korea

Title: Influence of symptoms, growth, mineral uptake and ginsenoside contents of *Ginseng* (*Panax ginseng* C.A.Meyer) to potassium concentrations in hydroponic culture  
**Jin Yu**, Department of Herbal Crop Research, NIHHS, South Korea

Title: The grain yield and photosynthetic characteristics responses of rice to oxygen status in rhizosphere as affected by soil aeration  
**Qianyu Jin**, China National Rice Research Institute, China

Title: Transcriptome analysis of dwarf soybean derived from crossing of *G. max* and *G. soja*  
**Chanseok Shin**, Seoul National University, South Korea

Title: A blend of volatile compounds emitted from *Alcaligenes faecalis* modulated hormonal pathways and ion transporters to induce salt tolerance in *Arabidopsis thaliana*  
**Yong Hoon Lee**, Chonbuk National University, Republic of Korea

Title: *P. nodorum* effectors resistance among Polish wheat and triticale germplasm  
**Jakub Walczewski**, Plant Breeding and Acclimatization Institute (IHAR), Poland

*Sessions: Plant Pathology and Plant-Micro-Biology | Plant Morphology and Plant Metabolism | Soil Science and Soil-Plant Nutrition | Plant Breeding and Molecular Breeding | Plant Biotechnology andPlant Tissue Culture | Agricultural Science*

14:35-15:00  
**Ju-Kon Kim**, Seoul National University, South Korea

Title: The roc10, a rice hd-zip transcription factor gene, modulates lignin biosynthesis for drought tolerance

**Minkyun Kim**, Seoul National University, South Korea

Title: Analysis of OsmiR399 expression and down-regulation of LTN1 in rice

15:00-15:25  
**Shuai Li**, Estonian University of Life Sciences, Estonia

Title: Arsenic and cadmium affect the crosstalk between auxin and jasmonate in *Oryza sativa L.*

**Marilena Ronzan**, Sapienza University of Rome, Italy

15:25-15:50  
**Qianyu Jin**, China National Rice Research Institute, China

Title: The roc10, a rice hd-zip transcription factor gene, modulates lignin biosynthesis for drought tolerance

15:50-16:15  
**Yong Hoon Lee**, Chonbuk National University, Republic of Korea

Title: A blend of volatile compounds emitted from *Alcaligenes faecalis* modulated hormonal pathways and ion transporters to induce salt tolerance in *Arabidopsis thaliana*
P16  Title: Roles of Arabidopsis ALDH10 enzymes in plant development and stress resistance
Florian Jacques, University of Technology of Compiègne, France

P17  Title: Novel identification of CBF genes in rye and phylogenetic relationship in the Triticeae
Yong Weon Seo, Korea University, South Korea

P18  Title: Biochemical characterisation of maize landraces for grain quality improvement
Danijela Ristic, Maize Research Institute Zemun Polje, Serbia

P19  Title: Application of molecular markers (SSRs) in foreground selection for maize quality traits
Marija Kostadinovic, Maize Research Institute Zemun Polje, Serbia

P20  Title: A new species of the genus Malenchus (Nematoda; Tylenchidae) from the rhizosphere of forest trees in northern Iran
Majid Pedram, Tarbiat Modares University, Iran

P21  Title: Investigation of certain elicitor’s effect on some gene’s (TXS, TBT, and DBAT) relative expression level and paclitaxel production in Taxus baccata cell suspension culture
Mokhtar Jalali Javaran, Tarbiat Modares University, Iran

P22  Title: Identification of gene sequences involved in chicoric acid biosynthesis pathway in Echinacea purpurea through RNA-SEQ transcriptome analysis
Mohammad Sadegh Sabet, Tarbiat Modares University, Iran

P23  Title: Survey of five Artemisia species with different artemisinin contents in view of relative expression of 13 genes involved in artemisinin production, karyology, and nuclear DNA content
Ghasem Karimzadeh, Tarbiat Modares University, Iran

P24  Title: Novel medium for enhancing callus growth in hazel (Corylus avellana L.)
Ahmad Moieni, Tarbiat Modares University, Iran

P25  Title: Genome-wide screening and functional characterization of long intergenic noncoding rnas in Arabidopsis
Choonkyun Jung, Seoul National University, South Korea

P26  Title: Oxalates assessment in the roots and shoots of taro (Colocasia esculenta (L.) Schott) submitted to drought conditions
Carla S.S Gouveia, University of Madeira, Portugal

P27  Title: Characterization of Avena germplasm collection in National Centre for Plant Genetic Resources, Radzikow, Poland
Jerzy Czembor, Institute of Plant breeding and acclimatization - National Research Institute, Poland

P28  Title: Morphological and molecular study of Cryptaphelenchus sp. (Nematoda, Ektaphelenchinae) associated with dead and dying pine trees in Iran
Majid Pedram, Tarbiat Modares University, Iran

P29  Title: Increased resistance to virus infection through overexpression of some important host genes involved in plant defense in potato (Solanum tuberosum L.)
Mohammad Sadegh Sabet, Tarbiat Modares University, Iran

P30  Title: UV illumination on Crithmum maritimum in vitro cell culture: A biomimetic approache
Julien Fouilland, France

Day 3    August 09, 2017

Sessions: Forest Science and Technology | Plant Genetics and epigenetics | Plant Genome Sciences | Plant Synthetic Biology

Session Chair: Dina Atmani-Kilani, University of Bejaia, Algeria

Session Introduction
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<tbody>
<tr>
<td>09:00-09:25</td>
<td>Glandular trichomes as a barrier against atmospheric oxidative stress</td>
<td>Shuai Li</td>
<td>Estonian University of Life Sciences, Estonia</td>
<td>Estonia</td>
</tr>
<tr>
<td>09:25-09:50</td>
<td>Nitrogen transformation characters in soil, use efficiency and rice grain yield as affected by soil aeration</td>
<td>Lianfeng Zhu</td>
<td>China National Rice Research Institute, China</td>
<td>China</td>
</tr>
<tr>
<td>09:50-10:15</td>
<td>To flower or not to flower? The crucial decision of Lilium longiflorum bulbs</td>
<td>Silit Lazare</td>
<td>Ben Gurion University, Israel</td>
<td>Israel</td>
</tr>
<tr>
<td>10:15-10:40</td>
<td>Barley stem reserves and yield maintenance under terminal drought: Molecular dissection of fructan biosynthesis and remobilization</td>
<td>Zahra Sadat Shobbar</td>
<td>Agriculture Biotechnology Research Institute of Iran, Iran</td>
<td>Iran</td>
</tr>
<tr>
<td>10:40-10:55</td>
<td>Network &amp; Refreshment Break</td>
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<tr>
<td>10:55-11:20</td>
<td>Germplasm identification and salinity-tolerant gene isolation on G. hirsutum L.</td>
<td>Wuwei Ye</td>
<td>Chinese Academy of Agricultural Sciences, China</td>
<td>China</td>
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<tr>
<td>11:20-11:45</td>
<td>Performance of rice varieties under rainfed condition in wet and dry tropics of</td>
<td>Sachesh Silwal</td>
<td>CQUniversity, Australia</td>
<td>Australia</td>
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<tr>
<td>11:45-12:10</td>
<td>Phytochemical screening and in vitro free radical scavenging activity of different solvent extracts from Convolvulus virgatus Boiss</td>
<td>Taoufik Saleh Ksiksi</td>
<td>UAE University, UAE</td>
<td>UAE</td>
</tr>
<tr>
<td>12:10-12:35</td>
<td>Construct a high-density genetic map in upland cotton and its application to genetic regulation analysis for yield and fiber quality traits</td>
<td>Youlu Yuan</td>
<td>Chinese Academy of Agricultural Sciences, China</td>
<td>China</td>
</tr>
<tr>
<td>12:35-13:00</td>
<td>NPR1 mediated the cross talk between salicylate- and jasmonate-mediated pathways in Carica papaya in response to Phytophthora palmivora</td>
<td>Rui Zong Jia</td>
<td>China Academy of Tropical Agricultural Sciences, China</td>
<td>China</td>
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<tr>
<td>13:00-14:00</td>
<td>Lunch Break</td>
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<tr>
<td>14:00-14:25</td>
<td>Functional analysis of ALSAP domains “a20/an1” in abiotic stress tolerance mechanism</td>
<td>Omar Moustafa Azab</td>
<td>King Saud University, Saudi Arabia</td>
<td>Arabia</td>
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<tr>
<td>14:25-14:50</td>
<td>Phylogenetic study of indigenous pulses based on morphological and inter simple sequence repeat (ISSR) marker</td>
<td>Filemon Yusuf</td>
<td>Bogor Agricultural University, Indonesia</td>
<td>Indonesia</td>
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<td>14:50-15:00</td>
<td>Network &amp; Refreshment Break</td>
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<td>15:00-16:00</td>
<td>Awards Ceremony</td>
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**Bookmark your dates**

5th Global Summit on **Plant Science**

October 29-30, 2018   Madrid, Spain

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W: plantscience.global-summit.com