Theme:
To Unfold the Hidden Secrets of Plant Science and Molecular Biology for Better Now and Future

Park Inn by Radisson Hotel & Conference Centre
Bath Road, Heathrow, Middlesex
UB7 0DU, London, UK

@GPMB2019
@GPMB2019

https://plant-science-biology-conferences.magnusgroup.org
Day 1, September 19, 2019 (Thursday) @ Atlantis

08:00-08:40 Welcome Coffee and Registrations
Moderator Lauren M. Lazaro, Louisiana State University AgCenter, USA
08:40-09:00 Introduction

Keynote Presentations

09:00-09:40 Title: Regulatory solutions for GM crops need a science view with a cultural responsibility
Klaus Ammann, University of Bern, Switzerland

09:40-10:20 Title: Identifying beneficial bacteria that enhance abiotic stress tolerance in horticulture crops
Michelle L. Jones, The Ohio State University, USA

10:20-11:00 Title: Aquatic plant useful concepts to delimit tropical wetlands (Orinoco Basin case)
Anabel Rial B, Independent Consultant - Venezuela/Colombia

GROUP PHOTO

11:00-11:20 Coffee Break @ Atlantis Foyer

Oral Presentations

Sessions On: Plant Biology | Plant Biotechnology | Plant Physiology and Biochemistry | Plant Molecular Biology | Plant Nutrition | Plant Pathology and Mycology | Plant Ecology and Taxonomy

Session Chairs: Klaus Ammann, University of Bern, Switzerland
Michelle L. Jones, The Ohio State University, USA

11:20-11:40 Title: A universal genetic switch for increasing pant yields, stress tolerance and product shelf life
Jerry Feitelson, Co-Founder/CEO of Agribody Technologies, Inc., USA

11:40-12:00 Title: Genome sequence of a Bacillus sp. with antimicrobial activity toward significant sorghum fungal pathogens
Enrique G. Medrano, USDA-ARS, USA

12:00-12:20 Title: Molecular regulation of food crop and medicinal plant biochemical pathways under mineral nutrient limitations
Godson O. Osuji, Prairie View A&M University, USA

12:20-12:40 Title: Beyond Arabidopsis: Paving the way to commercial applications of Karrikin compounds
Kenneth Tryggestad, University of Queensland, Australia
12:40-13:00  Title: Interpreting of circum-euxinian (Russian Black-Sea to Turkey) disjunctive distribution of Sub-Mediterranean pseudomaquis plant community
Arnold Gegechkori, Ivane Javakhishvili Tbilisi State University, Georgia

13:00-14:00  Lunch Break

14:00-14:20  Title: Long-term effect of crop-rotations on weed dynamic and glyphosate consumption in the south of Buenos Aires province, Argentina
Carolina Maria Istilart, CEI Barrow (MAIBA_INTA), Argentina

14:20-14:40  Title: Photosynthesizing while hyperaccumulating nickel: Insights into the genus Odontarrhena
Ilaria Colzi, University of Florence, Italy

14:40-15:00  Title: Evaluation of the capacity of tris(3-hydroxy-4-pyridinonate) iron(III) complexes to correct iron deficiency chlorosis in soybean (Glycine max L.)
Maria Rangel, Universidade do Porto, Portugal

15:00-15:20  Title: Attempts to explain incompatibilities in the process of pollination and fertilization of blackberry flowers (Rubus L. subgen. Rubus)
Agnieszka Orzel, Niwa Berry Breeding Ltd., Poland

15:20-15:40  Title: Stress factors influencing androgenesis of rye
Janusz Zimny, National Research Institute, Poland

15:40-16:00  Title: GABA shunt pathway in germinating seeds of wheat (Triticum aestivum L.) and barely (Hordeum vulgare L.) under salt stress
Nisreen A. Al-Quraan, Jordan University of Science and Technology, Jordan

16:00-16:20  Title: Plant Tissue Culture in Azerbaijan
Gulnara Balakishiyeva, Grand-Agro Invitro LLC, Azerbaijan

16:20-16:40  Coffee Break

16:40-17:00  Title: The influence of ambient temperature on the MDA and H2O2 production and antioxidant metabolism in Hedera helix leaves. One year study
Maja Diljkan, Faculty of Medicine, Department of pharmacy, Bosnia and Herzegovina

17:00-17:20  Title: Biological management of bacterial blight of pomegranate using Bacillus subtilis based bioformulations
Pavan Kumar, Basaveshwar Engineering College, India

17:20-17:40  Title: A novel beneficial endophytic bacterium-mediated plant growth promotion
Ozlem Akkaya, Gebze Technical University, Turkey

17:40-18:00  Title: Diversity of terpenes and n-alkanes in Pine species – Chemotaxonomic implications
Biljana Nikolic, Institute of Forestry, Serbia
Title: Effect of adenine sulphate and two growth regulators on in vitro propagation of plantain cv. *Agbagba* (aab)
Pamela Eloho Akin-idowu, National Horticultural Research Institute, Nigeria

Day 2, September 20, 2019 (Friday) @ Atlantis

08:30-09:00 Welcome Coffee @ Atlantis Foyer

Moderator Kenneth Tryggestad, The University of Queensland, Australia

Keynote Presentations

09:00-09:40 Title: In vitro culture and epigenetic variation in horticultural crop improvement
Samir C. Debnath, St. John’s Research and Development Centre, Agriculture and Agri-Food Canada, Canada

09:40-10:20 Title: Analysing plant responses to extreme environments at different scales: From subcellular compartments to whole plants in soil
Arnd. G. Heyer, University of Stuttgart, Germany

11:00-11:20 Coffee Break @ Atlantis Foyer

Oral Presentations

Sessions On: Plant Genetics and Genomics | Sensing and Signalling in Plant Stress Response | Plant Anatomy and Morphology | Plant and Environment

Session Chairs: Samir C. Debnath, St. John’s Research and Development Centre, Agriculture and Agri-Food Canada, Canada
Arnd. G. Heyer, University of Stuttgart, Germany

11:20-11:40 Title: The estimate seagrass (*Zostera marina*) population genetics in Isles of Scilly and South of Coast, UK
Nahaa Miqad Alotaibi, Swansea University, UK

11:40-12:00 Title: Does root structure affect phosphorous uptake in *Brassica napus*?
Alexandra Batchelor, University of Nottingham, UK

12:00-12:20 Title: Improvement of plant immunity using RNA silencing-based plant protection strategies
Aline Koch, Justus Liebig University, Germany

12:20-12:40 Title: Epigenes: Hereditary units with bimodular organization
Oleg N. Tikhodeyev, Saint Petersburg State University, Russia
12:40-13:00  Title: Effects of low cAMP levels on plant immunity after infection with an avirulent strain of *Pseudomonas syringae* pv. *Tomato*
Sara Cimini, Campus Bio-Medico University of Rome, Italy

13:00-13:20  Title: Phytomedicinal compounds from the wild grape *Ampelocissus latifolia*
Vidya Patni, University of Rajasthan, India

13:20-14:20  **Lunch Break**  @ RBG Restaurant

14:20-14:40  Title: Characterization of Salt Tolerance-Related Protein (STRP) of *Arabidopsis thaliana*, a new player in cold stress responses
Lorenzo Camoni, University of Rome, Italy

14:40-15:00  Title: Mechanisms underlying the tolerance of plants to a combination of heat stress and drought
Suzuki Nobuhiro, Sophia University, Japan

15:00-15:20  Title: Effects of gamma rays irradiation on *Eucalyptus* clones
Om Prakash Shukla, JK Paper Ltd., India

15:20-15:40  Title: Comparative investigation on two different populations of *Lamium garganicum* subsp. *striatum* var. *microphyllum* (*Lamiaceae*) distributed in Turkey
Pelin Baran, Usak University, Turkey

15:40-16:00  Title: Roles of Potassium transporters in salt tolerance of plants
Yuichi Tada, Tokyo University of Technology, Japan

15:40-16:00  Title: Genomic structural variation in the self-incompatibility locus causes a transition from outcrossing to selfing in amphidiploid *Arabidopsis kamchatica*
Takuma Ota, Mie University, Japan

16:00-16:20  Title: Evaluation of genetic diversity among sixteen accessions of *African Locust Bean* (*Parkia biglobosa* Jacq.) using SDS-PAGE and RAPD markers
Pamela Eloho Akin-idowu, National Horticultural Research Institute, Nigeria

16:40-17:00  Title: Effect of faba bean cultivars and sowing dates on *Orobanche crenata* biomass and seed reduction by the biocontrol agent *Phytomyza orobanchia* (*Diptera: Agromyzidae*)
Mohamed Awad Soliman Al-Eryan, Alexandria University, Egypt

17:00-17:20  Title: Secondary metabolites from *Tectona grandis* extracted by extrusion process
Lucero Paola Chávez Salgado, Institut National Polytechnique de Toulouse, France

17:20-17:40  **Coffee Break**  @ Atlantis Foyer

11:00-13:00- Poster Presentations I  @ Atlantis Foyer

**GPMBP-001**  Title: Critical time for weed removal in soybean as influenced by pre-emergence herbicides
Stevan Z. Knezevic, University of Nebraska, USA
| GPMBP-002 | Title: Salicylic acid-cryotherapy treatment for elimination of potato virus S From *Solanum tuberosum*  
Diana Rocio Ruiz Saenz, Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias (INIFAP), Mexico |
| GPMBP-003 | Title: RNAi-mediated plant protection: Unraveling the molecular mechanisms underlying identification of the molecular components of the the HIGSHost-induced gene silencing technology pathway  
Timo Schlemmer, Justus-Liebig-University, Germany |
| GPMBP-004 | Title: Evaluation of the wheat photosynthetic pigments content by spectral absorption of leaves determined using a smartphone  
Eduard A. Shuralev, Kazan Federal University, Russia |
| GPMBP-005 | Title: Influence of different priming materials on germination of sorghum hybrids (*Sorghum bicolor* l. moench. x *Sorghum sudanense* staph.) seeds  
Negar Ebrahim Pour Mokhtari, Gaziantep University, Turkey |
| GPMBP-006 | Title: Isolation and identification of molds associated to dry-cured meat products  
Klara Culjak, University of Zagreb, Croatia |
| GPMBP-007 | Title: Study on genetic diversity and physico-chemical characteristics of Theichhungsen (*Haematocarpus validus* (Miers.) Bakh. F. ex. Forman), a potential source of natural food colour from Mizoram  
Chhungpuii Khawlhr, Mizoram University, India |
| GPMBP-008 | Title: Urban organic gardening in Croatia  
Tanja Gotlin Culjak, University of Zagreb, Croatia |
| GPMBP-009 | Title: Morphological aspect and molecular mechanism of pollen hydration on pollination in *Arabidopsis thaliana*  
Keita Suwabe, Mie University, Japan |
| GPMBP-010 | Title: Identification of two helicases as potential targets for mitigating drought stress in rice  
Mouboni Dutta, University of Hyderabad, India |
| GPMBP-011 | Title: Real-time quantitative PCR based method for quantification of *Xanthomonas axanopodis* pv punicae in pomegranate  
Pavan Kumar, Basaveshwar Engineering College, India |
| GPMBP-012 | Title: Development of a fertility restorer for novel inap *Brassica napus* CMS by genetic introgression of one chinese woad chromosome  
Pengfei Li, Huazhong Agricultural University, China |
| GPMBP-013 | Title: Systematic review on the anti-cancer effect of Chinese medicines in metabolomics perspective  
Wei Guo, The University of Hong Kong, China |
| GPMBP-014 | Title: Change of optimal transplanting date caused by heat wave in 2018 in Korea  
Jeonghwa Park, National Institution of Crop Science, RDA, Korea |
| GPMBP-015 | Title: Characterization of begomovirus associated with yellow mosaic disease of ridge gourd (*Luffa acutangula* (L.) Roxb.)  
Premchand U, University of Horticultural Sciences, India |
GPMBP-016 Title: Unraveling the role of miRNAs in combined heat and drought stress in tomato
Chandni Bansal, National Institute of Plant Genome Research, India

14:20-15:30- Poster Presentations II @ Atlantis Foyer

GPMBP-017 Title: The challenge of agricultural research in Mexico
Juan Leonardo Rocha Valdez, Mexico

GPMBP-018 Title: Wheat (*Triticum aestivum* L.) photosynthesis is site-specifically and temporally varied between genotypes
Prabuddha Dehigaspitiya, University of Southern Queensland, Australia

GPMBP-019 Title: The effect of bioaugmentation and biochar-stimulation on metal(loid)s contaminated soil and plant growth
Melissa Simiele, University of Molise, Italy

GPMBP-020 Title: Transcription factors as targets for *Ustilago maydis* effectors
Denise Seitzner, Gregor Mendel Institute, Austria

GPMBP-021 Title: Effects of non-steroidal anti-inflammatory drugs on the ultrastructure and composition of autochthonous vegetables
Ocsana Opris, National Institute for Research and Development of Isotopic and Molecular Technologies, Romania

GPMBP-022 Title: Insecticides susceptibility of the most important pests in greenhouse vegetable production in Croatia
Tanja Gotlin Culjak, University of Zagreb, Croatia

GPMBP-023 Title: Ribosomal protein genes emerging as potential targets for manipulating stress tolerance in crop plants
Anusree Saha, University of Hyderabad, India

GPMBP-024 Title: Whole genome sequencing and comparative genomics of *Ceratocystis fimbriata* and integrated disease management strategies against wilt in pomegranate
Abhishek Gowda, University of Horticultural Sciences, India

GPMBP-025 Title: Mapping and validation of QTLs for cabbage black rot resistance
Jungen Kang, Beijing Academy of Agriculture and Forestry Sciences, China

GPMBP-026 Title: Dissection of heat induced morphological changes of reproductive tissues in *Arabidopsis thaliana*
Kazuma Katano, Sophia University, Japan

GPMBP-027 Title: Genomic architecture of biomass heterosis in Chinese cabbage
Peirong Li, Beijing Vegetable Research Center (BVRC), Beijing Academy of Agricultural and Forestry Sciences (BAAFS), China
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>Efficient CRISPR/Cas9-based gene knockout in Chinese cabbage (Brassica rapa subsp. pekinensis)</td>
<td>Tongbing Su, Beijing Vegetable Research Center (BVRC), Beijing Academy of Agriculture and Forestry Science, China</td>
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<tr>
<td>Identification and fine-mapping of a major QTL qSB.A09 that controls shoot branching in Brassica rapa ssp. chinensis Makino</td>
<td>Shuancang Yu, Beijing Vegetable Research Center (BVRC), Beijing Academy of Agriculture and Forestry Science, China</td>
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<td>A monomeric peroxiredoxin plays dual role in Deinococcus radiodurans R1 and exhibits resistance against heat and oxidative stress</td>
<td>Shubhpreet Kaur, University of Science and Technology, Korea</td>
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<tr>
<td>Identification of cis-regulatory elements in response to ionizing radiation and genotoxin treatment in Arabidopsis thaliana</td>
<td>Prapti Prakash, University of Science and Technology, Korea</td>
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<tr>
<td>Expression of hairpin RNA of root knot nematode PolA1 gene in Solanaceae hosts reduced nematode multiplication and improved agronomic characters</td>
<td>Peter Nkachukwu Chukwurah, Chiba University, Japan</td>
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<td>Carbon and nitrogen from soil microbial biomass under agroforestry systems and secondary forest, in the city of Tomé-açu, Pará, Brazil</td>
<td>Manoel Tavares de Paula, Pará State University, Brazil</td>
</tr>
<tr>
<td>Histological-adaptive rearrangements of vegetative organs of herbaceous vegetation in southern Ukrainian conditions</td>
<td>Pyurko Olga Evgenivna, Bogdan Khmelnytsky Melitopol State Pedagogical University, Ukraine</td>
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**Day 3, September 21, 2019 (Saturday) @ Atlantis**

**08:30-09:00**  Welcome Coffee @ Atlantis Foyer

**Moderator**  Oksana Lastochkina, Institute of Biochemistry and Genetics, Russia

**Keynote Presentations**

**09:00-09:40**  Title: Understanding of the molecular plant-virus interactions and development of novel antiviral strategies

Aiming Wang, London Research and Development Centre, Agriculture and Agri-Food Canada, Canada

**09:40-10:20**  Title: Biodiversity of urban riparian forests and management of the landscape edges

Usha R. Palaniswamy, Maria College, USA
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>10:20-11:00</td>
<td>Title: H$_2$O$_2$ signature and antioxidative profile as key players of rice responses against salt stress</td>
<td>Laura De Gara, University Campus Bio-Medico of Rome, Italy</td>
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<td>11:00-11:20</td>
<td><strong>Coffee Break</strong></td>
<td>@ Atlantis Foyer</td>
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<td>11:20-12:00</td>
<td>Title: Molecular characterization in Pigeonpea for genetic diversity in cultivated and wild relatives for certain economic traits</td>
<td>Arunachalam Muthiah, Tamilnadu Agricultural University, India</td>
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### Oral Presentations

**Sessions On:** Agronomy and Agricultural Research | Plant Sciences and Plant Research | Plant Metabolic Engineering | Plant Tissue Culture | Phytochemical Analysis

**Session Chairs:**
- Aiming Wang, Agriculture and Agri-Food Canada, Canada
- Usha R. Palaniswamy, Maria College, USA
- Laura De Gara, University Campus Bio-Medico of Rome, Italy

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<tr>
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<th>Title</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>12:00-12:20</td>
<td>Title: Harvest weed seed control in the United States</td>
<td>Lauren M. Lazaro, Louisiana State University AgCenter, USA</td>
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<tr>
<td>12:20-12:40</td>
<td>Title: Plant metabolic engineering for sustainable agriculture</td>
<td>Lalithakumari Janarthanam, ACELABOTEK, USA</td>
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<td>12:40-13:00</td>
<td>Title: Quality improvement in agronomy by non linear design of experiments and repeated measurements analysis</td>
<td>Martha Elva Ramirez Guzman, Colegio de Postgraduados, Mexico</td>
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<td>13:00-14:00</td>
<td><strong>Lunch Break</strong></td>
<td>@ RBG Restaurant</td>
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<tr>
<td>14:00-14:20</td>
<td>Title: Ethnobotanical value of Cephalaria syriaca</td>
<td>Tamar Kacharava, Georgian Technical University, Georgia</td>
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<td>14:20-14:40</td>
<td>Title: Durability of the genetic resistance to the coffee rust (<em>Hemileia vastatrix</em>) in improved varieties in Honduras 2019</td>
<td>Yonis Alberto Morales Reyes, Honduran Coffee Institute, Honduras</td>
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<td>14:40-15:00</td>
<td>Title: Seeds technologies to improve crop yielding</td>
<td>Juan J. Narvaez-Reinaldo, SEMILLAS FITO, Spain</td>
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<td>15:00-15:20</td>
<td>Title: Endophytic <em>Bacillus subtilis</em>-mediated drought stress tolerance in Wheat</td>
<td>Oksana Lastochkina, Institute of Biochemistry and Genetics, Russia</td>
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<tr>
<td>15:20-15:40</td>
<td>Title: Disruption of microbial cell morphology by extracts from <em>Buxus macowanii</em></td>
<td>Idah Tichaidza Manduna, Central University of Technology, South Africa</td>
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15:40-16:00  
**Title:** Production of medicinal functional rapeseed with alien chromosomes of Chinese woad  
Zaiyun Li, Huazhong Agricultural University, China

16:00-16:20  
**Coffee Break**  
@ Atlantis Foyer

16:20-16:40  
**Title:** A comparative investigation on two different populations of *Papaver pilosum* subsp. *spicatum* (*Papaveraceae*) endemic to Turkey  
Pelin Baran, Usak University, Turkey

16:40-17:00  
**Title:** Aspects of agronomy research in the Sudan  
Mahmoud Fadlelmula Ahmed, University of Khartoum, Sudan

17:00-17:20  
**A slide talk with a short note on the flora of Nepal**  
Pushpa Man Amatya, Purbanchal University, Nepal

17:20-17:40  
**Title:** Plant tissue culture as a tool in Papaya breeding  
Blanca Estela, SERVICIOS NSIP SA DE CV, Mexico

17:40-18:00  
**Title:** Impact of oxidative stress on plant proteins modifications: Relevance for plant allergens  
Tanja Cirkovic Velickovic, Ghent University Global Campus, Korea

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**End Note**

*PS: Please be informed that there may be slight change in the program for any reasons. So, be available in the hall on whole day of your presentation*
We wish to meet you again at our upcoming Plant Science Events

5th Edition of Global Congress on Plant Biology and Biotechnology
March 23-25, 2020 | Valencia, Spain
https://plantbiologyconference.com/
Email: contact@plantbiologyconference.com

6th Edition of Global Conference on Plant Science and Molecular Biology
September 10-12, 2020 | Paris, France
https://plant-science-biology-conferences.magnusgroup.org/
Email: plantscience@magnusconferences.com

Questions? Contact
+1 (702) 988-2320 or
Email: plantscience@magnusconferences.com

More Information: Please visit:
https://plant-science-biologyconferences.magnusgroup.org/