

4TH EDITION OF GLOBAL CONFERENCE ON

PLANT SCIENCE AND MOLECULAR BIOLOGY

SEPTEMBER 19-21, 2019

LONDON, UK

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

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 <https://plant-science-biology-conferences.magnusgroup.org>

CONFERENCE
PROGRAM

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

11:20-11:40 **Title: A universal genetic switch for increasing plant 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 Tryggstad, 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** @ **RBG Restaurant**
- 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 In vitro LLC, Azerbaijan
- 16:20-16:40 **Coffee Break** @ **Atlantis Foyer**
- 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

- 18:00-18:20 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

END OF DAY 1

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
- 10:20-11:00 Title: RNAi : A great potential for crop production and protection
Jeremy Sweet, JTEC Ltd, UK
- 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
- 16:00-16:20 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
- 16:20-16:40 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 Khawhr, 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 Dehigaspiya, 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 Seitner, 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

- GPMBP-028 Title: Efficient CRISPR/Cas9-based gene knockout in Chinese cabbage (*Brassica rapa* subsp. *pekinensis*)
Tongbing Su, Beijing Vegetable Research Center (BVRC), Beijing Academy of Agriculture and Forestry Science, China
- GPMBP-029 Title: Identification and fine-mapping of a major QTL qSB.A09 that controls shoot branching in *Brassica rapa* ssp. *chinensis* Makino
Shuancang Yu, Beijing Vegetable Research Center (BVRC), Beijing Academy of Agriculture and Forestry Science, China
- GPMBP-030 Title: A monomeric peroxiredoxin plays dual role in *Deinococcus radiodurans* R1 and exhibits resistance against heat and oxidative stress
Shubhpreet Kaur, University of Science and Technology, Korea
- GPMBP-031 Title: Identification of cis-regulatory elements in response to ionizing radiation and genotoxin treatment in *Arabidopsis thaliana*
Prapti Prakash, University of Science and Technology, Korea
- GPMBP-032 Title: Expression of hairpin RNA of root knot nematode PolA1 gene in *Solanaceae* hosts reduced nematode multiplication and improved agronomic characters
Peter Nkachukwu Chukwurah, Chiba University, Japan
- GPMBP-033 Title: Carbon and nitrogen from soil microbial biomass under agroforestry systems and secondary forest, in the city of Tomé-açu, Pará, Brazil
Manoel Tavares de Paula, Pará State University, Brazil
- GPMBP-034 Title: Histological-adaptive rearrangements of vegetative organs of herbaceous vegetation in southern Ukrainian conditions
Pyrko Olga Evgenivna, Bogdan Khmelnytsky Melitopol State Pedagogical University, Ukraine

END OF DAY 2

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

10:20-11:00 Title: H₂O₂ signature and antioxidative profile as key players of rice responses against salt stress
 Laura De Gara, University Campus Bio-Medico of Rome, Italy

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

11:20-12:00 Title: Molecular characterization in Pigeonpea for genetic diversity in cultivated and wild relatives for certain economic traits
 Arunachalam Muthiah, Tamilnadu Agricultural University, India

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

12:00-12:20 Title: Harvest weed seed control in the United States
 Lauren M. Lazaro, Louisiana State University AgCenter, USA

12:20-12:40 Title: Plant metabolic engineering for sustainable agriculture
 Lalithakumari Janarthanam, ACELABIOTEK, USA

12:40-13:00 Title: Quality improvement in agronomy by no linear design of experiments and repeated measurements analysis
 Martha Elva Ramirez Guzman, Colegio de Postgraduados, Mexico

13:00-14:00 **Lunch Break** @ RBG Restaurant

14:00-14:20 Title: Ethnobotanical value of *Cephalaria syriaca*
 Tamar Kacharava, Georgian Technical University, Georgia

14:20-14:40 Title: Durability of the genetic resistance to the coffee rust (*Hemileia vastatrix*) in improved varieties in Honduras 2019
 Yonis Alberto Morales Reyes, Honduran Coffee Institute, Honduras

14:40-15:00 Title: Seeds technologies to improve crop yielding
 Juan J. Narvaez-Reinaldo, SEMILLAS FITO, Spain

15:00-15:20 Title: Endophytic *Bacillus subtilis*-mediated drought stress tolerance in Wheat
 Oksana Lastochkina, Institute of Biochemistry and Genetics, Russia

15:20-15:40 Title: Disruption of microbial cell morphology by extracts from *Buxus macowanii*
 Idah Tichaidza Manduna, Central University of Technology, South Africa

- 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

End Note

*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

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More Information:

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<https://plant-science-biologyconferences.magnusgroup.org/>