

# GPB 2019

*3<sup>rd</sup> Global Congress on*

PLANT BIOLOGY  
AND BIOTECHNOLOGY

*Theme:*

*To Disseminate the Research and Advancements  
in Plant Biology and Biotechnology*

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MARCH 11-13, 2019  
SINGAPORE

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VILLAGE HOTEL CHANGI  
1 NETHERAVON ROAD SINGAPORE 508502

 @GPMB2019

## Day 1 March 11, 2019 (Monday) @ Square Ball Room

08:00-08:40 Registrations

Moderator Sowmyalakshmi Subramanian, McGill University, Canada

08:40-09:00 Introduction

### Keynote Presentations

09:00-09:40 Title: Vertically and horizontally transmitted genetic information in plant::Plant and plant::Microbe interactions  
Jeff Bennetzen, University of Georgia, USA

09:40-10:20 Title: Improving identification of plant pathogens by molecular analysis  
Mohammad Babadoost, University of Illinois, USA

10:20- 11:00 Title: Cullin 3 Plant E3 Ligases: A perspective on improving agricultural traits by controlling protein stability  
Hanjo Hellmann, Washington State University, USA

### GROUP PHOTO

11:00-11:20 **Coffee Break**

@ Square Foyer

### Oral Presentations

Sessions : Plant Biotechnology and Applications | Plant Nutrition and Soil Science | Plant, Soil and Environment | Applications in Plant Sciences

Session Jeff Bennetzen, University of Georgia, USA  
Chairs : Mohammad Babadoost, University of Illinois, USA

11:20-11:40 Title: Two mechanisms of lincosamide tolerance function as nuclear and plastid markers in higher plants  
Massimo Bosacchi, KWS Gateway Research Center, USA

11:40-12:00 Title: Rice genome editing: A contribution to climate change mitigation and achievement of food security in Costa Rica  
Marta Valdez-Melara, The University of Costa Rica, Costa Rica

12:00-12:20 Title: Cultivation, market and uses of Nepal's medicinal and aromatic Plants: Reflections on local and national policy  
Joel T. Heinen, Florida International University, USA

12:20-12:40 Title: Plant proteomic responses to signal compounds lipo-chito-oligosaccharide and thuricin  
Sowmyalakshmi Subramanian, McGill University, Canada

- 12:40-13:00 Title: Plants and radionuclides: From hazard to biotechnology  
Pierre Chagvardieff, CEA, France
- 13:00-14:00 **Lunch Break** @ Oval
- 14:00-14:20 Title: Green algae *Cladophora* in the Crimean hypersaline waters as an ecosystem engineer and valuable resource  
Nickolai Shadrin, Kovalevsky Institute of Marine Biological Research, Russia
- 14:20-14:40 Title: Regeneration strategies in native woody species from disturbed South American dry tropical forests: The of aerial bud bank and soil seed bank  
Sandra Josefina Bravo, National University of Santiago del Estero, Argentina
- 14:40-15:00 Title: Glomalin content of soil in relation to soil organic carbon under long term fertilizer studies in finger millet – maize cropping system  
Basavaraju P K, University of Agricultural Sciences, India
- 15:00-15:20 Title: LED technological possibilities: Tool for management of metabolic changes in microgreens  
Giedre Samuoliene, Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 15:20-15:40 Title: In vitro multiplication of plum cultivars (*Prunus domestica* L.)  
Jiri Sedlak, Research and Breeding Institute of Pomology Holovousy Ltd, Czech Republic
- 15:40-16:00 Title: Massive growth of super dwarf rice plant in a fully closed type plant factory for poly lactic acid production  
Haruhiko Murase, Himeji University, Japan
- 16:00-16:20 **Coffee Break** @ Square Foyer
- 16:20-16:40 Title: Towards C4 rice; Overexpression of C4 genes in *Arabidopsis thaliana* and *Oryza sativa* enhances photosynthesis, plant productivity and water use efficiency  
B C Tripathy, School of Life Sciences, JNU, India
- 16:40-17:00 Title: Precision nitrogen management through crop sensors on growth and yield of aerobic rice (*Oryza sativa* L.)  
Mudalagiriappa, University of Agricultural Sciences, India
- 17:00-17:20 Title: Evolutionary epigenomics of mangroves reveals the homeostatic role of gene body methylation in stress adaptation  
Tian Tang, Sun Yat-sen University, China
- 17:20-17:40 Title: Qualitative analysis and anti-bacterial investigation of *Plumbago zeylanica*  
Arpita Roy, Delhi Technological University, India

- 17:40-18:00 Title: Population status, soil properties and microbial colonization in Himalayan Silver Birch (*Betula utilis* D. Don)  
Khashti Dasila, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, India
- 18:00-18:20 Title: Trichome formation and insect tolerance in tomato  
Wei Deng, Chongqing University, China

## END OF DAY 1

## Day 2: March 12, 2019 (Tuesday) @ Square Ball Room

Moderator Marta Valdez-Melara, The University of Costa Rica, Costa Rica

## Keynote Presentations

- 09:00-09:40 Title: Stability of synchronization in the process of biochemical substance exchange in a diffusively coupled ring-like arrangement of cells in plants as a potential source for autoimmune diseases  
Dragutin T. Mihailovic, University of Novi Sad, Serbia
- 09:40-10:20 Title: AP-MS and organ growth in plants: From cells to tissues  
Geert De Jaeger, Center for Plant Systems Biology, VIB-Ghent University, Belgium
- 10:20-11:00 Title: Plant biotechnology protecting crops against fungi and mycotoxins  
Petr Karlovsky, University of Goettingen, Germany
- 11:00-11:20 **Coffee Break** @ Square Foyer

## Oral Presentations

Sessions: Plant Genetics, Molecular Genetics and Genomics | Proteomics, Genomics, and Bioinformatics | Plant Ecology and Taxonomy | Plant Molecular Biology

Session Yinghua Huang, USDA-ARS and Oklahoma State University, USA  
Chairs : Petr Karlovsky, Georg-August-University Goettingen, Germany

- 11:20-11:40 Title: Prediction of plant protein subcellular locations  
Xiangjia Jack Min, Youngstown State University, USA
- 11:40-12:00 Title: *ThaliaDB*, a tool for data management and genetic diversity data exploration  
Steinbach Delphine, INRA, France
- 12:00-12:20 Title: Root morphology, productivity, and photosynthesis of aeroponically grown ice plants (*Mesembryanthemum crystallinum*) with different nutrient spraying intervals  
He Jie, National Institute of Education, Nanyang Technological University, Singapore

- 12:20-12:40 Title: Inheritance of rootstock effects in fruit trees  
Andres J.Cortes, AGROSAVIA, Colombia
- 12:40-13:00 Title: Physiology and productivity of temperate vegetable crops exposed to sub-lethal heat stress  
Lai Cheng Hsiang, National Institute of Education, Nanyang Technological University, Singapore
- 13:00-14:00 **Lunch Break** @ Oval
- 14:00-14:20 Title: Cytokinins for immunity; Inside and beyond plants  
Muhammad Naseem, Zayed University Abu Dhabi, United Arab Emirates
- 14:20-14:40 Title: Impact of wild boar rooting on a soil seed bank of oak-linden-hornbeam forest in the Bialowieza Forest  
Izabela Sondej, Forest Research Institute, Poland
- 14:40-15:00 Title: Effect of Boron fertilizer on sunflower seed yield and oil production  
Basavaraju P K, University of Agricultural Sciences, India
- 15:00-15:20 Title: Molecular characterization of 3-Hydroxy-3-methylglutaryl-CoA reductase (HMGR) multigene family in legume crop *Cicer arietinum*  
Renu Kumari, National Institute of Plant Genome Research, India
- 15:20-15:40 Title: Cryotherapy: Cryogenic technology for virus elimination from infected plants  
Ergun Kaya, Mugla Sitki Kocman University, Turkey
- 15:40-16:00 Title: Hormone signaling and alternative splicing in Moso bamboo shoot growth  
Jian Gao, International Centre for Bamboo and Rattan, China
- 16:00-16:20 Title: Researches on the radiation induced non-targeted effects in *Arabidopsis thaliana*  
Ting Wang, Chinese Academy of Sciences, China
- 16:20-16:40 **Coffee Break** @ Square Foyer

## 16:40-18:20- Poster Presentations @ Square Foyer

- P1 Title: *Arabidopsis* SRFR1 dampens defenses against herbivory by *Spodoptera exigua* and parasitism by *Heterodera schachtii*  
Ellie Nguyen, Oklahoma State University, USA
- P2 Title: Seed shattering of *Bromus hordeaceus* L. during the growing season of winter wheat  
Christian Andreasen, University of Copenhagen, Denmark
- P3 Title: Destroying weed seeds with exhaust gas from a combine harvester  
Zahra Bitarafan, University of Copenhagen, Denmark

- P4 Title: Endophytic bacteria *Bacillus subtilis* and salicylic acid: Biotic strategy to control postharvest diseases of *Solanum tuberosum* L.  
Oksana Lastochkina, Bashkir Research Institute of Agriculture – Subdivision of the Ufa Federal Research Centre of the Russian Academy of Sciences, Russia
- P5 Title: Volatile organic compounds released by maize following herbivory or insect extract application and communication between plants  
Dariusz Piesik, UTP University of Science and Technology, Poland
- P6 Title: Attributes of wheat cultivars for late autumn sowing in genes expression and field estimates  
Anna Wenda Piesik, UTP University of Science and Technology, Poland
- P7 Title: A qPCR-HRM assay (high-resolution melting-curve analysis) to discriminate between pathotypes of *Synchytrium endobioticum*  
Jaroslaw Przetakiewicz, National Research Institute, Poland
- P8 Title: The determination how tobacco plants receipt the signal about zinc level in apoplast  
Aleksandra Weremczuk, University of Warsaw, Poland
- P9 Title: Polymorphism in SSR-loci associated with E genes in soybean mutant lines perspective for breeding  
Chebotar Sabina, Odessa I.I. Mechnikov National University, Ukraine
- P10 Title: Transcriptomic analysis of Moso bamboo seeds during the germination process by RNA-seq  
Juan Li, International center for Bamboo and Rattan, China
- P11 Title: Diversity of phototrophs in the Crimean hypersaline and lagoons and their biotechnological potential  
Elena Anufrieva, Kovalevsky Institute of Marine Biological Research, Russia
- P12 Title: Evaluation of incompatibility at germplasm of late sweet cherry cultivars at molecular level  
Frantisek Paprstein, Research and Breeding Institute of Pomology Holovously Ltd, Czech Republic
- P13 Title: Hull-splitting is caused by a mutation of the gene Os04g0447100 in rice  
Hee Jong Koh, Seoul National University, Republic of Korea
- P14 Title: Improvement of phosphorus utilization and growth in maize (*Zea mays*) seedlings by synergistic biofertilizer application on eastern Indian Oxisol  
Ishita Paul, Indian Institute of Technology, India
- P15 Title: A novel protein interaction between RCI2s and PIP2;1 reducing water transport activity in *Camelina* under NaCl stress  
Hyun-Gyu Lim, Chonnam National University, Korea
- P16 Title: Over-expression of OsASR confers drought tolerance in rice  
Dipali Srivastava, CSIR- National Botanical Research Institute, India

- P17 Title: Development of high yield and stress-tolerant crops via the regulation of splicing patterns of chloroplast genes  
Su Jung Park, Chonnam National University, Korea
- P18 Title: Microbial endophytes and soil enzymes contribute to the growth and establishment of *Ginkgo biloba* L.  
Ashish Dhyani, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, India
- P19 Title: Carbon flow mediated by brackish-water algal mats in Indian Sunderbans: A case study for environment-friendly and sustainable source of biodiesel  
Prakash Chandra Gorain, University of Calcutta, India
- P20 Title: To be announced  
Chu Huangwei, Shanghai Academy of Agricultural Sciences, China
- P21 Title: To be announced  
Cheng Can, Shanghai Academy of Agricultural Sciences, China
- P22 Title: To be announced  
Niu Fuan, Shanghai Academy of Agricultural Sciences, China

## END OF DAY 2

## Day 3: March 13, 2019 (Wednesday) @ Square Ball Room

Moderator Sreemanti Banerjee, University of Calcutta, India

## Keynote Presentations

- 09:00-09:40 Title: Omics approaches to plant genetics and crop improvement  
Yinghua Huang, USDA-ARS and Oklahoma State University, USA
- 09:40-10:20 Title: New table grapes varieties obtained in Spanish breeding program ITUM-IMIDA for the world  
Manuel Tornel Martinez, IMIDA & ITUM, Spain
- 10:20-11:00 Title: Plant biotechnology: Progress and prospects  
Sadasivam Sankaranarayanan, Tamil Nadu Agricultural University, India
- 11:00-11:20 **Coffee Break** @ Square Foyer

## Oral Presentations

Sessions: Plant Physiology and Biochemistry | Microbiology and Phycology | Plant Chemistry and Ecophysiology

Session Manuel Tornel Martinez, IMIDA & ITUM, Spain

Chairs : Sadasivam Sankaranarayanan, Tamil Nadu Agricultural University, India

- 11:20-11:40 **Title: Fibrillar sinteny evolution and viral interactions**  
Enrique Castano de la Serna, Centro de Investigacion Cienfica de Yucatan, Mexico
- 11:40-12:00 **Title: A novel approach to enhancing grain yield in acid soils prone to extreme water regimes**  
Hossein Khazab Saberi, University of Western Australia, Australia
- 12:00-12:20 **Title: Probiotic microorganisms in the rhizosphere of agricultural plants**  
Nadezhda Verkhovtseva, Lomonosov Moscow State University, Russian Federation
- 12:20-12:40 **Title: How harvest date affect physiological status of *Miscanthus x giganteus* and *Miscanthus* seed-based hybrids cultivated on heavy metal contaminated arable land?**  
Szymon Rusinowski, Institute for Ecology of Industrial Areas, Poland
- 12:40-13:00 **Title: Defense-related reprogramming in *Sorghum bicolor* against infection by *Burkholderia andropogoni*: A metabolomics study**  
Ian Dubery, University of Johannesburg, South Africa
- 13:00-14:00 **Lunch Break** **@ Oval**
- 14:00-14:20 **Title: Studies on effect of herbal extract *Samved Fugall* (CO<sub>2</sub>) absorbent on cotton**  
Hemangee Abhay Jambhekar, Vasumitra Life Energies Pvt. Ltd, India
- 14:20-14:40 **Title: An optimistic foresight of microalgal biotechnology**  
Ruma Pal, University of Calcutta, India
- 14:40-15:00 **Title: Phytoplankton diversity of two different ecological niches in relation to physico-chemical parameters**  
Partha Talukdar, University of Calcutta, India
- 15:00-15:20 **Title: The Effect of enhanced solar UV-B (280-320 nm) radiation on morphology, photosynthetic pigment synthesis, and accumulation of bioactive compounds in some medicinal plants**  
N Shanthi, Pachaiyappas College, India
- 15:20-15:40 **Title: Phycoremediation of tannery waste using cyanobacteria as bioreagent with special reference to Nano Chromium formation**  
Iman Dey, University of Calcutta, India
- 15:40-16:00 **Title: Importance of plant growth regulators in table grape production**  
S.D. Ramteke, ICAR-National Research Centre for grapes, India



- 16:00-16:20 Title: An investigation on cyanobacteria based nano-iron production and their characterization  
Sreemanti Banerjee, University of Calcutta, India
- 16:20-16:40 Title: Strategies for improving artemisinin content in the engineered *Artemisia annua* plant  
Kexuan Tang, Shanghai Jiao Tong University, China
- 16:40-17:00 Title: Characterization of nano-structured siliceous frustules of *Amphora sp.* and application in nanodevices  
Rahul Bose, University of Calcutta, India
- 17:00-17:20 Title: New strategies in clonal micropropagation of fruit crops  
Sergey A. Kornatskiy, Peoples' Friendship University of Russia, Russia
- 17:20-17:40 Title: Growth, yield and anthocyanin content in black rice (*Oryza sativa* L 'Cempo Ireng') treated with paclobutrazol and methyl jasmonate  
Kumala Dewi, Universitas Gadjah Mada, Indonesia

**End Note**  
**Coffee @ Square Foyer**

*We wish to meet you again at our upcoming  
Plant Science Events*

## Plant Science and Molecular Biology

September 19-21, 2019 | London, UK

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

Email: [plantscience@magnusconferences.com](mailto:plantscience@magnusconferences.com)

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## Plant Biology and Biotechnology

March 23-25, 2020 | Valencia, Spain

<https://plantbiologyconference.com/>

Email: [contact@plantbiologyconference.com](mailto:contact@plantbiologyconference.com)

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### Questions? Contact

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### More Information:

Please visit:

<https://plantbiologyconference.com/>