

9th Edition of Global Congress on

Plant Biology and Biotechnology

*Theme: Frontiers in
Plant Science: Exploring
Innovations and Discoveries*

27-29TH
MARCH
2025

Our **OCMs**



MOHAMMAD BABADOOST
University of Illinois, United States



EDWARD CURRY OWNER
Curry Farms, United States



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The University of Melbourne,
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Freelance Researcher, United States



BIJAYALAXMI MOHANTY
National University of Singapore,
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Universidad de Sonora, Mexico



VALASIA IAKOVOGLOU
UNESCO chair Con-E-Ect,
International Hellenic University,
Greece



RAMESHKUMAR K B
Jawaharlal Nehru Tropical Botanic
Garden and Research Institute,
India

Scientific TOPICS

- Plant Biotechnology and Applications
- Plant Molecular Biology
- Plant Nutrition
- Soil and Crop Sciences
- Plant Pathology and Disease Management
- Plant Microbiology: Phycology & Mycology
- Plant Physiology and Eco Physiology
- Plant Systematics and Taxonomy
- Plant Sciences and Plant Research
- Plant Breeding
- Plant Developmental Biology
- Plant Ecology and Taxnomy
- Plant Hormones and their Functions
- Plant Science: Antibodies, Antigens and Antibiotics
- Plant Cell Biology and Molecular Biotechnology
- Plant - Biotic Interactions

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VENUE

Village Hotel Changi

1 Netheravon Rd, Singapore 508502

Mohammad Babadoost, University of Illinois, United States

Title: Techniques for identification and managing bacterial and fungal diseases of tomatoes

Mary Cole, The University of Melbourne, Australia

Title: Mineralisation of urban waste through composting in agriculture in a circular economy

Yinghua Huang, Oklahoma State University, United States

Title: Decoding the genetic mechanism of host plant resistance to biotic stresses

Srinivasa Rao Mentreddy, Alabama A&M University, United States

Title: Development of turmeric (*Curcuma* spp.) from a little-known crop to high value medicinal crop in Southern USA

Dol Prasad Dhakal, Freelance Researcher, United States

Title: Optimizing corn production profitability through variable rate irrigation, fertilization, and pesticide application in Texas high plains

Edgar Omar Rueda Puente, Universidad de Sonora, Mexico

Title: Functional medicine and the agronomic engineer: What it is and how to influence in a society after a pandemic

Bijayalaxmi Mohanty, National University of Singapore, Singapore

Title: Promoter architecture and transcriptional regulation of genes upregulated in germination and coleoptile elongation of diverse rice genotypes tolerant to submergence

Manuel Tornel Martinez, Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario, Spain

Title: Innovation in table grapes: Breeding and biotechnology for the future

Abdul Khalil Gardezi, Colegio de Posgraduados, Mexico

Title: Evaluation of three tomato varieties (*Solanum lycopersicum* L.) inoculated with bacteria under stress conditions induced by wastewater and copper sulfate

Valasia Iakovoglou, UNESCO chair Con-E-Ect, International Hellenic University, Greece

Title: Educating on environmental sustainability

Vijayan Gurumurthy Iyer, Bihar Institute of Public Administration & Rural Development, India

Title: Unsafe chromium pollution and control for the environmental plant biology and biotechnological development

Rameshkumar K B, Jawaharlal Nehru Tropical Botanic Garden and Research Institute, India

Title : Phytochemical diversity of the flora of the western ghats- An investigation through hyphenated mass spectrometric techniques

P E Rajasekharan, ICAR-IIHR, India

Title: Securing the future of horticulture: Cryobanking pollen for biodiversity and breeding

Susmita Shukla, Amity University, India

Title : Plant biotechnology: A touchstone for transforming global agriculture

Vasilia A. Fasoula, Adjunct Research Scientist and Consultant, United States

Title: Key innovations of prognostic breeding that increase the efficiency of crop genetic improvement

Ajwal Dsouza, University of Guelph, Canada

Title: Harnessing controlled environment systems for enhanced production of medicinal plants

Jacqueline Nguyen, University of Guelph, Canada

Title: Utility of controlled environment agriculture in the production of medicinal fungi

Andrew Thomas Burns, University of Guelph, Canada

Title: Optimization of light intensity for growth and essential oil production of mint (*Mentha* spp.) In controlled environments

Sonali Koundal, Western Sydney University, Australia

Title: Deciphering the impact of electrical conductivity on greenhouse cucumber quality: Insights from physiological responses and potassium transporter genes

Niharika Sharma, DPIRD - Orange Agricultural Institute, Australia

Title: Harnessing the power of multi-omics: A deep dive into plant biology

Giovanni DalCorso, University of Verona, Italy

Title: Abc1kN is involved in glucosinolate metabolism and stress response during seed development in *Arabidopsis thaliana*

Sirangelo Tiziana Maria, ENEA-Italian National Agency for New Technologies, Italy

Title: Molecular investigations on hemp seeds, a source of nutrients and bioactive compounds

Sassan Mohasseb, Department of Energy Engineering, Smteam GmbH, Switzerland

Title: Application of bioengineering in construction

Xing Zheng Wu, Fukuoka Institute of Technology, Japan

Title: Real-time in-situ monitoring of environmental stress in aquatic plants by dissolved oxygen-quenched fluorescence/materials movement-induced beam deflection

Roza Ayalkibet Belayneh, Hebrew University, Israel

Title: Cover crops in almond orchards - Supporting their services and mitigating competition by adjusting fertilization

Valery P Kalinitchenko, All-Russian Phytopathology Research Institute, Russian Federation

Title: Biogeosystem technique methodology in plant development condition refinement contributing to safe plant biology and ecosphere expanded reproduction

Chung Yu Guan, National Taiwan University, Taiwan

Title: Plants with microbial fuel cells for green energy production, green sustainable remediation, and net zero emissions

Ertugrul Yilmaz, Korkutelim Feed Production Factory, Turkey

Title: The use of herbal extracts obtained from plants in ruminant mixed feeds and reducing the use of antibiotics with herbal extracts

Blagoy Uzunov, Sofia University St. Kliment Ohridski, Bulgaria

Title: Biotechnological potential of aeroterrestrial algae from the Algal Collection of Sofia University (ACUS)

Maya Stoyneva-Gartner, Sofia University St. Kliment Ohridski, Bulgaria

Title: Algal collections in the green era

Nedyalka Valcheva, Vocational High School, Bulgaria

Title: The rhodopean silivryak (*Haberlea rhodopensis*), the "resurrection plant" or the flower of orpheus

Teresita Marzioletti Bernardi, University of Concepcion, Chile

Title: Reinforcement of alginate beads of microalgal-bacterial immobilized consortia with cellulose nanofibers for aquaculture wastewater treatment

Luis Felipe Montoya Rendon, University of Concepcion, Chile

Title: Synthesis of hydrogels with controlled nutrient release utilizing fishery industry waste

Martha Cecilia Guillen Murrieta, Camposol SA, Peru

Title: In vitro rooting of micropropagated shoots from the clonal rootstock of cherry, Colt

Zhongsheng Guo, Institute of Soil and Water Conservation, China

Title: Climate change and agriculture high-quality agricultural development

Yifeng Wang, China National Rice Research Institute, China

Title: Exogenous abscisic acid represses rice flowering via SAPK8-ABF1-Ehd1/Ehd2 pathway

Liuji Wu, Henan Agricultural University, China

Title: Readthrough events in plants reveal unprecedented plasticity of stop codons

K R Aneja, Kurukshetra University, India

Title: Development of Gibbatrianth mycoherbicide to control *Trianthema portulacastrum* (horse purslane), a notorious agricultural weed

Prabhakar D Pandit, Himedia Laboratories, India

Title: Organic amendments enhance crop yield by improving rhizospheric microbiome diversity

Anirudh Kumar, Central Tribal University, India

Title: Defense priming in rice: An innovative approach to enhance bacterial blight resistance in rice (*Oryza sativa* L.)

Vidhu Aeri, Jamia Hamdard, India

Title: Green extraction, optimization and analyses of lutein and zeaxanthin from petals of *Tagetes erecta*

Priyanka Prajapati, Banaras Hindu University, India

Title: Fungal endophytes promote wheat growth (PBW-343) and enhance salt tolerance through improvement of ascorbate glutathione cycle and gene expression

Akila Chandra Sekhar, Yogi Vemana University, India

Title: Harnessing foxtail millet landraces as a source of novel alleles for yield and nutritional traits

Rashmi Ramesh Shanbhag, Institute of Wood Science and Technology, India

Title: Sandalwood spike disease diagnosis and control

Nishtha Mishra, DDU Gorakhpur University, India

Title: Extensive analysis of trichoderma *ressei* mediated CO₂ stress mitigating responses and transcriptome sequencing of rice flag leaf

Prakash Rajak, Banaras Hindu University, India

Title: Rainfall fluctuation causes invasive plant prosopis juliflora to adapt ecophysiologically and change phenotypically

Moumita Gangopadhyay, Adamas University, India

Title : Futuristic transformation of herbal industry: Sustainable soilless herb production with hydroponics and aeroponics

Sonal Sachdev, Bose Institute, India

Title: Deciphering AtHMGB15, an ARID-HMG protein in arabidopsis: Orchestrating the JA pathway through MYC2 regulation in pollen development

Divakar, Tamilnadu Agricultural University, India

Title: Detection and validation of EST-SSR markers associated with sugar yield in sugarcane

Arti Thakur, Parul University, India

Title: Enhancing plant fungal resistance through CRISPR/Cas9-mediated integration of a bacterial antifungal gene

Poushali Dey, CSIR-National Botanical Research Institute, India

Title: Diversity in the genus geranium from Pangri valley, an unexplored trans Himalayan region along with new records for Himachal Pradesh, Western Himalaya, India

Smitha Vijayan, Mar Athanasios College For Advanced Studies, India

Title: Phytochemical composition and antioxidant potential of Garcinia gummi-gutta seed and fruit rind: A comparative study

Shanky Jindal, Guru Gobind Singh Indraprastha University, India

Title: Identification of thrombin inhibiting antithrombin-III like protein from Punica granatum using in-silico approach and in-vitro validation of thrombin inhibition activity in crude protein

Gouri Sankar Juga Prakash Jena, Department of Botany, India

Title: Studies on the ethnotherapeutic claims of plants used in some selected beshas of Lord Jagannath in Puri

Uday Bhan Prajapati, Patanjali Research Institute, India

Title: Methods on conservation of medicinal plants

Chauhah Ankitkumar H, Sardarkrushinnagr Dantiwada Agricultural University, India

Title: Effect of potassium and zinc on soil properties and fraction of potassium and zinc in soil

Shaza Roushdy Omar, Cairo University, Egypt

Title: The importance of plant biology research in supporting phytosanitary capacities and applications

Zill-e-Huma Aftab, Department of Plant Pathology, Pakistan

Title: Nano-integrated Fe₃O₄ plant tissue culture to increase the rate of callus induction, growth, and curcuminoid production in curcuma longa

Iqtidar Hussain, Gomal University, Pakistan

Title: Moringa oleifera L. aqueous phyto solution on germination and growth indices of cereal

Durlave Roy, Bangladesh Open University, Bangladesh

Title: Studies on the use of locally available (Coxs Bazar and Saint Martin) renewable seaweed wastes as compost organic fertilizer resources

Mohammad Quamrul Islam Matin, Bangladesh Agricultural Research Institute, Bangladesh

Title: Genetic gain, gene action, genetic diversity and G×E in crop improvement

M Ahdhi, Faculty of Science of Gabes, Tunisia

Title: Molecular identification of arbuscular mycorrhizal fungal spores associated to the rhizosphere of retama raetam in Tunisia

Soukaina Hrichi, Faculty of Pharmacy of Monastir, Tunisia

Title : Phytochemical profile and antifungal efficacy of Tunisian Prunus armeniaca L. kernels with formulation of an antidermatophyte cream based on kernel powder

Mohammad Reza Naghavi, University of Tehran, Iran (Islamic Republic of)

Title: The genetic and biochemical secrets behind Rosa canina's white petals

Sadulla, Center of Genomics and Bioinformatics, Uzbekistan

Title: Breeding program of central Asian seedless grapes

Adkham N. Abdullaev, Genomics and Bioinformatics Center of the Academy of Sciences of the Republic of Uzbekistan, Uzbekistan

Title: Study of the effects of growth regulators on the growth and rooting of grape apical meristem in vitro

Ahlam Khalofah Mohammad Al Saeed, King Khalid University, Saudi Arabia

Title: The ameliorating effects of cinnamic acid? based nanocomposite against salt stress in peppermint (Mentha piperita) plants

Mukti Ram Poudel, Tribhuvan University, Nepal

Title: Performance of Nepalese wheat genotypes under abiotic stress environments

Kipiro Damas, PNG Forest Research Institute, Papua New Guinea

Title: Current state of systematic botany in Papua New Guinea

Tsitsi Antonet Mutandiwa, University of South Africa, South Africa

Title: Revolutionizing agricultural sustainability with CRISPR-enhanced crop resilience

Nomathemba Majola, University of Pretoria, South Africa

Title: Genetic diversity and population structure analyses of South African Bambara groundnut (Vigna subterranea [L]. Verdc.) collections using SNP markers

Lawrence Malinga, South African Sugarcane Research Institute, South Africa

Title: Insect abundance and diversity in irrigated sugarcane in South Africa: Insights from a multi-sampling method study

Ashwil Klein, University of the Western Cape, South Africa

Title: Integrated biocontrol of fusarium head blight pathogens using Trichoderma asperellum and potassium silicate

Geraldine Mandiang A Bep, University of Yaounde I, Cameroon

Title: Expression of tc-mybpa gene involved in the regulation of the biosynthesis of proanthocyanidins in some cocoa beans (Theobroma cacao L.)

Matilda Ntowa Bissah, CSIR-Plant Genetic Resources Research Institute, Ghana

Title: Multivariate analysis of conserved rice germplasm in Ghana

Oral Presentation

Gerema Amente, Adami Tulu Agricultural Research Center, Ethiopia

Title: Protocol optimization for micropropagation of banana varieties (Musa spp.) using shoot-tip culture

Haruna Saidu, Gombe State University, Nigeria

Title: Harnessing microorganism having potential for biotreatment of wastewater

Aminu Mohammed Njobdi, Modibbo Adama Universty Yola, Nigeria

Title: A review of Luffa cylindrica leaf extract in control of plant pathogen (bacteria and fungi)

Hasiya Usman Jibrilla, Modibbo Adama University, Nigeria

Title: Survey on incidence and severity of groundnut rosette disease in Adamawa state

Owoeye Ehi Anita, Moist Forest Research Station, Nigeria

Title: Effect of different substrates on the mycelium performance of Hericum erinaceus

Oral Presentations Slots are available

Poster Presentation

Fatemeh Ahmadi, University of Western Australia, Australia

Title : Different NO₃⁻ /NH₄⁺ ratios improved caffeic acid derivatives and alkylamides compounds in Echinacea purpurea as affected by salt stress

Chen Ge, University of Copenhagen, Denmark

Title: Ri technology: A Non-GMO approach to enhancing plant stress tolerance

Linda Hoegfeldt, University of Copenhagen, Denmark

Title: Ri technology: A Non-GMO approach to enhancing plant stress tolerance

Juan Jose Rodriguez Fuentes, University of Copenhagen, Denmark

Title: Exploring rooting systems of Ri-naturally transformed Oilseed rape (Brassica napus)

Tayyiba Afzal, Wroclaw University of Environmental and Life Sciences, Poland

Title : Chemical profiling of three salvia species by Hs-SPME coupled with GC-MS

Khin Mar Cho, Temasek Polytechnic, Singapore

Title: Rooftop vertical aquaponics systems for sustainable urban farming

Karina, University of Puerto Rico, Puerto Rico

Title: Chemical and biological assessment on Puerto Rican native plants from the polygonaceae family

Tomoki Okamura, Toyo University, Japan

Title : Iron deficiency in rice under alkaline conditions is induced by the suppression of iron uptake mechanisms and iron transport responses

Dolores Vargas Alvarez, Universidad Autonoma de Guerrero, Mexico

Title: Characterization and conditioning of fibers obtained from Agave cupreata and Hemp (Cannabis sativa L.)

Doaa Jamal Sanad Abudarwish, National Agriculture Research Center, Jordan

Title: In vitro propagation of *Hyphaene thebaica* (L.) Mart: A rare and critically endangered high value medicinal plant

Sadhana Shukla, The Energy and Resources Institute, India

Title: Exploring the role of rhizophagus proliferus in soil carbon dynamics and plant health: Implications for agricultural and environmental sustainability

Kankati Alekya, Acharya N G Ranga Agriculture University, India

Title: Marker assisted breeding for bacterial blight resistance and yield enhancing gene to improve Pranahitha, a local popular elite fine culture with good cooking quality

Anukriti Srivastava, Department of Bioscience and Biotechnology, India

Title : Finding of novel EST Marker associated with grain filling duration and tillering traits in Wheat (*Triticum aestivum* L.) under terminal heat stress

Chamathni Liyanage, Kalinga Institute of Industrial Technology, India

Title: From orphan to essential: Leveraging CRISPR technology for pearl millet enhancement

Luis L Vazquez, Latin American Center for Agroecological Research, Cuba

Title: Agroecological transition in the decentralization of agrobiotechnologies in Cuba

Tetiana Maievskya, Research and Production Centre, Ukraine

Title: Fish hydrolysates as effective biostimulants for plants

Fabiana Tabash Porras, Universidad de Costa Rica, Costa Rica

Title: Influence of root bacterial interactions on fungal communities in Fabaceae leaves

Mansure Bayram, Tarbiat Modares University, Iran (Islamic Republic of)

Title: Quantitative assessment of some oilseed response to salinity stress at the early growth stage

Isah Yinusa, Federal University Lokoja, Nigeria

Title: GC-MS and FTIR identification of bioactive components in the stem-leaves ethyl acetate extract of *Parquetina nigrescens* (Afzel) bullock

Poster Presentations Slots are available