

WORLD CONGRESS ON

ADVANCES IN PLANT SCIENCE AND PLANT BIOLOGY

MARCH 31-APRIL 01, 2025

AMSTERDAM, NETHERLANDS



SCIENTIFIC PROGRAM

DAY 01
MONDAY

MARCH 31, 2025

07:45-08:20

Registrations

08:20-08:30

Inaugural Ceremony

Moderator

Kathleen L Hefferon, *Cornell University, USA*

Topics: Plant Genomics | Plant-Microbe Interactions | Plant Hormones | Plant Pathology | Plant Biotechnology | Plant Metabolomics | Plant Proteomics | Sustainable Agriculture | Plant Cell Signaling | Plant Physiology | Soil Plant Interactions | Plant Ecology

Session Chair

Gunindra Nath Chattopadhyay, *Seacom Skills University, India*

Distinguished Speaker Talks

08:30-08:50

Title: Management of Staining and Galling Associated with Black Olive Trees in Florida and the Caribbean

Ahmed Ali, *The Davey Tree Expert Company, USA*

08:50-09:10

Title: Recovery of Native Vegetation: Opportunities for the Recovery of Brazilian Forests

Diolina Moura Silva, *Professor, Universidade Federal do Espírito Santo, Brasil*

09:10-09:30

Title: Genomics-Enabled Dissection of Biosynthetic Machineries in Endangered Medicinal Herbs of Indian Himalayas

Rajinder Singh, *Mahindra University, India*

09:30-09:50

Title: The Biochar as a Microbiome Carrier for Fast Soil Restoration

Mattia Terzaghi, *University of Bari Aldo Moro, Italy*

09:50-10:10

Title: Large-Scale Gene Expression Alterations Introduced by Structural Variation Drive Morphotype Diversification in *Brassica oleracea*

Feng Cheng, *Chinese Academy of Agricultural Sciences, China*

10:10-10:30

Title: One-Step Creation of CMS Lines using a *BoCENH3*- Based Haploid Induction System in Brassica Crop

Zhansheng Li, *Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences, China*

GROUP PHOTO 10:30-10:35

REFRESHMENT BREAK 10:35-10:50

10:50-11:10

Title: Impact of Mangrove Vegetation on Sequestration of Blue-Stock Carbon in Coastal Soils

Gunindra Nath Chattopadhyay, *Seacom Skills University, India*

11:10-11:30

Title: Impact of Biochar and Compost Amendments on Rhizosphere Microbial Diversity: A Metagenomic Perspective

Francesco Guarino, *University of Salerno, Italy*

11:30-11:50

Title: Molecular and Phytochemical Markers Based Genetic Diversity and Population Structure Studies of *Dendrocalamus hamiltonii*, an Edible Bamboo of Manipur, North-East India

Potshangbam Nongdam Puren Meetei, *Manipur University, India*

11:50-12:10

Title: Cloning Technology for Date Palm for Commercial Application

Sundaravelpandian Kalaipandian, *The University of Queensland, Australia*

12:10-12:30

Title: Multifunctional Plant Virus Nanoparticles for Targeting Breast Cancer Tumors

Kathleen L Hefferon, *Cornell University, USA*

12:30-12:50

Title: Yield Prediction Models of Organic Oil Rose Farming with Agricultural Unmanned Aerial Vehicles (UAVs)

Sinan Demir, *Isparta University of Applied Sciences, Türkiye*

GROUP PHOTO 12:50-13:00

LUNCH BREAK 13:00-13:30

Session Chair

Gunindra Nath Chattopadhyay, *Seacom Skills University, India*

13:30-13:50

Title: Effects of Paclobutrazol on Salinity Tolerance of Bald Cypress, *Taxodium distichum*

Ahmed Ali, *The Davey Tree Expert Company, USA*

13:50-14:10	<p>Title: Selection of Biomarkers Responsive to Heavy Metals for the Development of Biosensors to Monitor Environmental Pollution</p> <p>Alessia Postiglione, <i>University of Naples "Federico II" - Monte Sant'Angelo Campus, Italy</i></p>
14:10-14:30	<p>Title: Biomarkers from Mosses for the Creation of Biosensors of Water Environmental Health from Heavy Metal Pollution</p> <p>Martina Dentato, <i>University of Naples "Federico II" - Monte Sant'Angelo Campus, Italy</i></p>
14:30-14:50	<p>Title: Chemical Components of Stevia and their Interactions with Ionizing Radiation</p> <p>Nelida Lucia del Mastro, <i>Institute of Nuclear and Energy Researches-IPEN/CNEN, Brazil</i></p>
14:50-15:10	<p>Title: Environmental Regularization in Brazil: Challenges for the Advancement of Dynamic Analysis</p> <p>Patricia Bourguignon Soares, <i>Universidade Federal do Espírito Santo, Brasil</i></p>
15:10-15:30	<p>Title: Microbial Reduction-Mediated Sulfur Dynamics Govern Arsenic Mobilization and Redistribution in Contaminated Soils</p> <p>Muhammad Zeeshan Basheer, <i>University of Chinese Academy of Sciences, China</i></p>
REFRESHMENT BREAK 15:30-15:45	
15:45-16:05	<p>Title: Mathematical Model to Express the Protein Folding as Environment Dependent Process</p> <p>Irena Roterman, <i>Jagiellonian University – Medical College Krakow, Poland</i></p>
16:05-16:25	<p>Title: Demystification of Colors in Kirlian Photography as a Clinical Diagnostic Method</p> <p>Wilson Picler, <i>FEEC/State University of Campinas (UNICAMP), Brazil</i></p>
16:25-16:45	<p>Title: Photosynthetic Evaluation of <i>Guapira pernambucensis</i> (Casar.) Lundell under Different Shaded and Technological Conditions</p> <p>Gabriel Rosa de Sousa, <i>Universidade Federal do Espírito Santo, Brasil</i></p>
16:45-17:05	<p>Title: Inter Species Interaction of Bradyrhizobia Affects their Colonization and Plant Growth Promotion in <i>Arachis hypogaea</i></p> <p>Dipanwita Patra, <i>University of Calcutta, India</i></p>

17:05-17:25	<p>Title: Use of Bromelia pinguin Extract Mitigates Glyphosate-Induced Toxicity in Human Cells</p> <p>Luis Omar Masias Ambriz, <i>Universidad Autónoma de Occidente, México</i></p>
17:25-17:45	<p>Title: Agricultural Water Management under Water Shortage Stress Conditions: Example of Semi-Arid Konya Plain, Türkiye</p> <p>Bilal Acar, <i>University of Selçuk, Türkiye</i></p>
17:45-18:05	<p>Title: Inhibiting Potential of Herbal Extracts Cocktail Against <i>Daboia russelli</i> and <i>Bungarus caeruleus</i> Indian Snake Venom</p> <p>Sunil S More, <i>Dayananda Sagar University, India</i></p>
18:05-18:25	<p>Title: Plant Health—Detecting Leaf Diseases</p> <p>Fandi Fatima Zahra, <i>University Hassan II, Morocco</i></p>
18:25-18:45	<p>Title: Influential Plant in Medicinal Science and Clove: Tiny Buds with Global Fame</p> <p>Royanama Rahimi, <i>Mashhad University of Medical Sciences, Iran</i></p>
18:45-19:05	<p>Title: Mineral Composition of the Soil, Qualitative Features, Macro and Microelements, Amino Acid Composition of Branded Kyrgyz Rice</p> <p>Smailov Eltar Ablametovich, <i>International Kyrgyz-Uzbek University named after B. Sydykov, Kyrgyzstan</i></p>
19:05-19:25	<p>Title: Ecological Significance and Biotechnological Applications of <i>Ulva lactuca</i>: A Comprehensive Review of this Versatile Green Macroalga</p> <p>Övgü GENCER, <i>Ege Üniversitesi, Türkiye</i></p>
19:25-19:45	<p>Title: Thigmomorphogenesis in Woody Plants</p> <p>Frank W. Telewski, <i>Michigan State University, USA</i></p>

NETWORKING

END OF DAY 1

SCIENTIFIC PROGRAM

DAY 02

TUESDAY

APRIL 01, 2025

08:45-08:55

Introduction

Topics: Plant Genomics | Plant-Microbe Interactions | Plant Hormones | Plant Pathology | Plant Biotechnology | Plant Metabolomics | Plant Proteomics | Sustainable Agriculture | Plant Cell Signaling | Plant Physiology | Soil Plant Interactions | Plant Ecology

Distinguished Speaker Talks

08:55-09:15

Title: High Hydrostatic Pressure for the Development of Functional Bioactives from Plant Sources

Chong-Tai Kim, R&D Center, Ilshin T.H.E./Sokcho Bio, Republic of Korea

09:15-09:35

Title: The Effects of Climate Change on the UAE and its Agricultural Sector

Ahmed Abdulqader Talabani, Shiekh Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences, UAE

09:35-09:55

Title: Hydroponic Cultivation Enhances Morpho-Physiological Traits and Quality Flower Production in Three Cultivars of French Marigold (*Tagetes Patula* L.)

Bhavya Bhargava, Council of Scientific and Industrial Research (CSIR), India

09:55-10:15

Title: An Investigation of Tufa Microbialites in the Terrestrial Ecosystem of Adilcevaz (Bitlis) According to the Conservation Approach

Firat Çiltepe, Balıkesir University, Türkiye

10:15-10:35

Title: Molecular Diagnosis, Characterization and Successful Development of Integrated Management Strategies for Tomato leaf Curl New Delhi Virus (F: Geminiviridae G: Begomovirus) in Ridgegourd (*Luffa Acutangula* L.)

Mahesha B, ICAR-Indian Institute of Horticulture Research, India

10:35-10:55

Title: Ethylene Mediates Dichromate-Induced Inhibition of Primary Root Growth by Altering AUX1 Expression and Auxin Accumulation in *Arabidopsis thaliana*

Abdul Wakeel Umar, Zhejiang University, China

10:55-11:15

Title: Novel Sustainable Ideas, Praxis on Residential, and Green-Areas by the Henri Prost's Istanbul Development Plans

Hülya Coskun, Mimar Sinan Fine Arts University, Türkiye

SCIENTIFIC PROGRAM

DAY 02
TUESDAY

APRIL 01, 2025

Exclusively for
Virtual Speakers

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SCIENTIFIC PROGRAM



Virtual Event

World Congress on

ADVANCES IN PLANT SCIENCE AND PLANT BIOLOGY

March 31-April 01, 2025

<https://plantscience.peersalleyconferences.com/>

SCIENTIFIC PROGRAM

DAY 01

MONDAY

MARCH 31, 2025

(GMT) Greenwich Mean Time

08:20-08:30

Opening Ceremony

Topics: Plant Genomics | Plant-Microbe Interactions | Plant Hormones | Plant Pathology | Plant Biotechnology | Plant Metabolomics | Plant Proteomics | Sustainable Agriculture | Plant Cell Signaling | Plant Physiology | Soil Plant Interactions | Plant Genetics | Plant Ecology | Agricultural Biotechnology | Plant Immunity

08:30-08:50

Title: Analyzing the Value Chain of Banana Commodity in Maluku Islands, Indonesia

Semuel Leunufna, *Pattimura University, Indonesia*

08:50-09:10

Title: Identification of Novel Pathogenicity Related Genes in *Botrytis cinerea*

Pamil Tayal, *University of Delhi, India*

09:10-09:30

Title: Biopesticide Effect on Crops for the Bioactive Components Extracted from *Tagetes erecta* and *Tagetes patula*

Pavithra Raju, *PES University, India*

09:30-09:50

Title: Hypersensitive Response a Key Mechanism of Resistance in Potato: Artificial Induction of Defense in Susceptible Genotype to Invoke a Silent Resistance

Veena S Anil, *University of Agricultural Sciences GKVK, India*

09:50-10:10

Title: Global Trade and Food Security: Economic Impacts and Strategic Market Solutions

Sukanya R, *CHRIST (Deemed to be University), India*

10:10-10:30

Title: Prp8 Intein Splicing Inhibition in *Aspergillus fumigatus*: Could it be a Target for New Antimycotics

Jyotirmayee Turuk, *ICMR-Regional Medical Research Centre, India*

10:30-10:50

Title: A Comprehensive Analysis of Genetic Diversity, Structure, and Anthracnose Resistance in Common Bean Germplasm Collected from the Garhwal Himalayas

Deepti Prabha, *HNB Garhwal University, India*

10:50-11:10	Title: Management Interventions to Improve Applied N Recovery Efficiency with Least Reactive N Losses in a Terrace Paddy Field of Bangladesh Masuda Akter , <i>Bangladesh Rice Research Institute, Bangladesh</i>
E-Poster	Title: Trends in the Abundance of Anatids (Anseriformes, Anatidae, Aves) on the Western Coast of the Caspian Sea in the Era of Climate Change (Republic of Dagestan, Russia) Evgeny Vilkov , <i>Dagestan Federal Research Center, Russia</i>
REFRESHMENT BREAK 11:10-11:30	
11:30-11:50	Title: Techno-Economic Analysis of Biomass Pelletization as a Sustainable Biofuel with Net-Zero Carbon Emissions Muhammad Asif , <i>University of Agriculture Faisalabad, Pakistan</i>
11:50-12:10	Title: The Effects of Climate Change on the UAE and its Agricultural Sector Ahmed Abdulqader Talabani , <i>Shiekh Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences, UAE</i>
12:10-12:30	Title: Environmental Stresses and Plant Metabolome Nina Terletsкая , <i>Institute of Genetic and Physiology, Kazakhstan</i>
12:30-12:50	Title: Multipurpose use of Collections and Exhibitions in Botanical Gardens Zarema Smirnova , <i>Federal State Budgetary Institution of Science N.V. Tsitsin Main Botanical Garden, Russia</i>
12:50-13:10	Title: The Importance of Fatty Acids – Metabolites of Aquatic Macrophytes for Managing and Indicating the Ecological State of Aquatic Ecosystems Evgeny Kurashov , <i>Papanin Institute for Biology of Inland Waters Russian Academy of Sciences, Russia</i>
E-Poster	Title: Influence of Drought and Flood on Plant Potential to Protect Plasmid DNA Structure Ivana Šola , <i>University of Zagreb, Croatia</i>
LUNCH BREAK 13:10-13:40	

13:40-14:00	Title: Effects of Different Doses of Iba on <i>Ex Vitro</i> Rooting of Micro Cuttings in the Floating Perlite Bed and Growth Performance of Micro-Propagated Plants in Pyrodwarf Pear Rootstock Farangis Nawandish , <i>Ankara University, Türkiye</i>
14:00-14:20	Title: Protein-Protein Interactions Revealed by Machine Learning Algorithms for Salt Tolerance in Rice Mutant Lines Akram Ghaffari , <i>Seed and plant certification and registration institute (SPCRI), Iran</i>
14:20-14:40	Title: Simultaneous Effect of Medicinal Plants as Natural Photosensitizers and Low-Level Laser on Photodynamic Inactivation Zahra Aghaebrahimi , <i>Islamic Azad University, Iran</i>
14:40-15:00	Title: Valorization of Amphiphilic Secondary Metabolites from Plant Derived Agri-Food Bio-Wastes as Bioactive Ingredients in Functional Products Alexandros Tsoupras , <i>Democritus University of Thrace, Kavala University Campus, Greece</i>
15:00-15:20	Title: Ethnonutritional Study of Fruits of <i>Solanum aethiopicum</i> L. and <i>Solanum melongena</i> L. in the District of Galim (Bamboutos) in West Cameroon Adriel Martin Collet EPANDA , <i>The University of Douala, Cameroon</i>
15:20-15:40	Title: Consumer Perception of Plant-Based Eggs: A Scoping Exercise Isabella Nyambayo , <i>Wrexham University, UK</i>
15:40-16:00	Title: Weed and Yield of Different Field pea Seed Rates and Carryover Effect of ALS Inhibitor herbicides Applied in Preceding Wheat Crop María Angélica Ouellette , <i>North Peace Applied Research Association, Canada</i>
16:00-16:20	Title: Thigmomorphogenesis in Woody Plants Frank W. Telewski , <i>Michigan State University, USA</i>

NETWORKING

End of Day 1

SCIENTIFIC PROGRAM

DAY 02

TUESDAY

APRIL 01, 2025

(GMT) Greenwich Mean Time

07:20-07:30

Opening Ceremony

Topics: Plant Genomics | Plant-Microbe Interactions | Plant Hormones | Plant Pathology | Plant Biotechnology | Plant Metabolomics | Plant Proteomics | Sustainable Agriculture | Plant Cell Signaling | Plant Physiology | Soil Plant Interactions | Plant Genetics | Plant Ecology | Agricultural Biotechnology | Plant Immunity

07:30-07:50

Title: DnaDot - Fixing Ecology and Evolution's Blind Spot, Population size

William Sherwin, *School of Biological Earth and Environmental Science, UNSW Sydney, Australia*

07:50-08:10

Title: Designing Climate-Smart Wheat

Karine Chenu, *The University of Queensland, Australia*

08:10-08:30

Title: Biofuel Production for Circular Bioeconomy: Present Scenario and Future Scope

Huiying Zhang, *Fujian Agriculture and Forestry University, China*

08:30-08:50

Title: From Arabidopsis to Crops: the Arabidopsis QQS Orphan Gene and its Interactor NF-YC Modulates Composition Across Species

Lei Wang, *Shihezi University, China*

08:50-09:10

Title: High Hydrostatic Pressure for the Development of Functional Bioactives from Plant Sources

Chong-Tai Kim, *R&D Center, Ilshin T.H.E./Sokcho Bio, Republic of Korea*

09:10-09:30

Title: Managing Minute Duckweed (*Lemna perpusilla* Torr) Cultivation for Fish Feed in Indonesia

Awalina Satya, *National Research and Innovation Agency, Indonesia*

09:30-09:50

Title: Current Development and Evaluation of Mechanical Properties of Sandwiched Layers Orientations of Natural Fibres for Sisal and Jute Fibres

Sanjay Kumar S M, *SJB Institute of Technology, India*

REFRESHMENT BREAK 09:50-10:10

10:10-10:30	Title: Bioactive Nanopaper Solutions: Cinnamon Essential Oil-Infused Packaging for Extended Shelf Life of Coriander Leaves P M Sabura Begum , <i>Cochin University of Science and Technology (CUSAT), India</i>
10:30-10:50	Title: Marker Assisted Pyramiding of APR Genes for Durable Rust Resistance in Wheat (<i>Triticum aestivum L.</i>) Niharika Mallick , <i>ICAR-Indian Agricultural Research Institute, India</i>
10:50-11:10	Title: Predictive Analytics for Crop Economics Prity Kumari , <i>Anand Agricultural University, India</i>
11:10-11:30	Title: Complex Regulation of Micro-RNA and their Targets under Low-light Stress in Shade-tolerant Swarnaprabha Rice Madhusmita Panigrahy , <i>Siksha 'O' Anusandhan University, India</i>
11:30-11:50	Title: R & D in Plant Sciences with “Human Concern”: Turn Globe Hunger-Free D. Radhakrishnan Nair , <i>Christ (Deemed to be University), India</i>
11:50-12:10	Title: Optimizing Nitrogen Management through Nano N-fertilizer for Wheat Resilience under Salt Stress Parvender Sheoran , <i>ICAR-Central Soil Salinity Research Institute, India</i>
12:10-12:30	Title: Anti-diabetic Potential of <i>Exacum bicolour Roxb.</i> -an in silico study Saisha Vinjamuri , <i>BMS College of Engineering, India</i>
12:30-12:50	Title: Genomic Insight into the Major Foliar Maize Diseases of India Bhupender Kumar , <i>ICAR-Indian institute of maize research institute, India</i>
LUNCH BREAK 12:50-13:30	
13:30-13:50	Title: Physiology of Flowering in Litchi vs Mango Sanjay Kumar Singh , <i>ICAR-Central Institute for Subtropical Horticulture, India</i>
13:50-14:10	Title: Sensing Nature’s Alarm: SnO ₂ /MXene Gas Sensor unveils Methyl Jasmonate Signatures of Plant Insect Stress Prem Kumar , <i>Institute of Nano Science and Technology, India</i>

14:10-14:30	<p>Title: Hydroponic Cultivation Enhances Morpho-Physiological Traits and Quality Flower Production in Three Cultivars of French Marigold (<i>Tagetes patula</i> L.)</p> <p>Bhavya Bhargava, <i>Council of Scientific and Industrial Research (CSIR), India</i></p>
14:30-14:50	<p>Title: Starch Wall of Urea: Facile Starch Modification to Residue-free Stable Urea Coating for Sustained Release and Crop Productivity</p> <p>Kanchan Swami, <i>Institute of Nanoscience and Technology, India</i></p>
14:50-15:10	<p>Title: Electrical Study of Plants for Biosensing and Communication in Precision Agriculture</p> <p>Lee Bar-On, <i>Tel Aviv University, Israel</i></p>
15:10-15:30	<p>Title: <i>In Vitro</i> Regeneration and Bulbil Multiplication of <i>Squilla maura</i>: An Endemic Species of Morocco</p> <p>Ibtisam Chakrane, <i>National Institute of Agricultural Research, Morocco</i></p>
15:30-15:50	<p>Title: LEDs Lighting as a Modulatory Key of the Temperature Stress Responses in Tomato Plants</p> <p>Costantino Paciolla, <i>Università degli Studi di Bari Aldo Moro, Italy</i></p>
15:50-16:10	<p>Title: Biopiracy and Development of Plant Genetic Resources: Domestic Appropriations and Impacts on Women in the Global South</p> <p>Irekpitan Okukpon, <i>University of Bradford, UK</i></p>
REFRESHMENT BREAK 16:10-16:30	
16:30-16:50	<p>Title: Optimization of Growth Media on the Yield of two Carrot (<i>Daucus carota</i> L) Varieties Grown with Plastic Water Bottles in Nsukka Southeast Nigeria</p> <p>Anozie Chukwunyere, <i>University of South Bohemia, Czech Republic</i></p>
16:50-17:10	<p>Title: Proteomic Analysis Reveals the Molecular Pathways Responsible for Solar UV-B Acclimation in High-altitude Malbec Grapes</p> <p>Germán Murcia, <i>Fundación Instituto Leloir, Argentina</i></p>
17:10-17:30	<p>Title: The Role of Non-Crop Vegetation on the Diversity of Parasitoids in Irrigated Rice Fields</p> <p>Simone Mundstock Jahnke, <i>Federal University of Rio Grande do Sul, Brazil</i></p>

17:30-17:50	Title: On the Morning Appetite of Maize Bruce B. Hicks , <i>University of Tennessee, USA</i>
17:50-18:10	Title: Low Temperature Plasma: An Emerging Green Technology for Seed Priming, Improving Plant Growth and Yield, and Food Safety Srinivasa Rao Mentreddy , <i>Alabama A&M University, USA</i>
18:10-18:30	Title: An Effective Integrated Approach for Managing Phytophthora blight (<i>Phytophthora capsici</i>) of Cucurbits Mohammad Babadoost , <i>University of Illinois, USA</i>
18:30-18:50	Title: The Future of Pink Pine Nut Production in Mexico Sandra Luz Castro Garibay , <i>Colegio de Postgraduados, Mexico</i>
18:50-19:10	Title: Differences in Growth and Survival of two Varieties of <i>Ochroma pyramidale</i> in Rustic Plantations in Southern Mexico Samuel Israel Levy-Tacher , <i>El Colegio de la Frontera Sur, Mexico</i>

NETWORKING

End of Day 2

BOOKMARK YOUR DATES

2nd World Congress on

**ADVANCES IN
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March 2026 | London, UK