

*Joint Event*

9<sup>th</sup> Edition of Global Conference on

# Plant Science and Molecular Biology &

4<sup>th</sup> Edition of Global Conference on

# Agriculture and Horticulture

**CPD ACCREDITED**



**APPROVED  
PROVIDER**

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**16-18**

September

Rome, Italy



**IN-PERSON:**

NH Villa Carpegna

Via Pio IV, 6, 00165 Roma RM, Italy



**VIRTUAL:**

Central European Summer

Time (CEST)

**DAY 01**  
**Monday, September 16**  
**(In-Person)**

- 08:00-08:50 Registrations
- 08:50-09:00 Opening Ceremony and Introduction
- 09:00-10:20 In-person Keynote Presentations
- 10:20-16:00 In-person Oral Presentations
- 16:20-17:30 In-person Poster Presentations

**DAY 02**  
**Tuesday, September 17**  
**(In-Person)**

- 08:50-09:00 Opening Remarks
- 09:00-10:20 In-person Keynote Presentations
- 10:20-16:20 In-person Oral Presentations
- 16:40-17:30 In-person Poster Presentations

**DAY 02**  
**Tuesday, September 17**  
**(Virtual)**

- 08:30-09:00 AV Check
- 09:00-11:00, 17:00-18:20 Virtual Keynote Presentations
- 11:00-14:20, 15:20-17:00 Virtual Oral Presentations
- 14:20-15:20 Virtual Poster Presentations

**DAY 03**  
**Wednesday, September 18**  
**(In-Person)**

- 08:50-09:00 Opening Remarks
- 09:00-11:00 In-person Keynote Presentations
- 11:20-17:40 In-person Oral Presentations

**DAY 03**  
**Wednesday, September 18**  
**(Virtual)**

- 09:30-10:00 AV Check
- 10:00-13:20, 17:00-18:20 Virtual Keynote Presentations
- 13:20-17:00, 18:20-19:00 Virtual Oral Presentations
- 19:00-19:10 Virtual Poster Presentation

 **IN-PERSON**  
 **VIRTUAL**

**Day 01**  
**Break Timings**  
**(In-person)**

- 11:00-11:20 Coffee Break
- 13:00-14:00 Lunch Break
- 16:00-16:20 Coffee Break

**Day 02**  
**Break Timings**  
**(In-person)**

- 11:00-11:20 Coffee Break
- 13:00-14:00 Lunch Break
- 16:20-16:40 Coffee Break

**Day 03**  
**Break Timings**  
**(In-person)**

- 11:00-11:20 Coffee Break
- 13:00-14:00 Lunch Break
- 16:00-16:20 Coffee Break

**Important Note**

- The conference follows Central European Summer Time (CEST) for both In-person and Virtual sessions.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country.
- In-person presentations will take place in the LEONARDO A Room @NH Villa Carpegna and Virtual presentations will take place in Zoom meetings.
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

### KEYNOTE PRESENTATIONS

Central European Summer Time (CEST)

@LEONARDO A

08:00–08:50 | Registrations

08:50–09:00 | Opening Ceremony and Introduction

**Moderator:**  
Gabriella Sferra, University of Molise, Italy

09:00–09:40 In-person

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

Title: Low-temperature atmospheric pressure plasma: An emerging green technology for improving agricultural productivity

09:40–10:20 In-person

**Raphael Linker**  
Technion – Israel Institute of Technology, Israel

Title: A model-based optimization framework for multi-year allocation of land and water

### ORAL PRESENTATIONS

**Chairs:**  
Srinivasa Rao Mentreddy, Alabama A&M University, United States  
Raphael Linker, Technion – Israel Institute of Technology, Israel

10:20–10:40 In-person

**Gabriella Sferra**  
University of Molise, Italy

Title: A transcriptome meta-analysis to depict functionalities and biomarkers of the root under pathogen infection

10:40–11:00 In-person

**Merve Seven**  
Bahçeşehir University, Turkey

Title: Pectins: Transcriptomic analysis of genes involved in their synthesis and modifications during barley seedling development

Group Photo

11:00–11:20 | Coffee Break @Foyer

11:20–11:40 In-person

**Giuseppe Mannino**  
University of Turin, Italy

Title: Unveiling the physiological role of betanin breakdown products on stress response mechanisms in germinating arabidopsis

11:40–12:00 In-person

**Sandhya Mehrotra**  
BITS Pilani KK Birla Goa Campus, India

Title: Role of the N-region in targeting multi-transmembrane domain proteins to the chloroplast

12:00–12:20 In-person

**Changsong Zou**

Henan Universtiy, China

Title: Coupling of gland development and secondary metabolite synthesis in cotton

12:20–12:40 In-person

**Tetiana Moskalets**

Institute of Molecular Biology SAS,  
Slovak Republic

Title: The Ability of glycoside hesperidin to inhibit in vitro the process of epithelial–mesenchymal transition: A molecular aspect

12:40–13:00 In-person

**Louis Gueuning**

Louvain Institute of Biomolecular  
Science and Technology, Belgium

Title: Characterization of NtWoolly and NtRAX2–like, two transcription factors involved in the development of glandular trichomes of *Nicotiana tabacum*

13:00–14:00 | Lunch @Restaurant

14:00–14:20 In-person

**Magdalena Korek**

University of Silesia, Poland

Title: *Barley strigolactone*–signalling mutant hvd14.d presents highly–tilled phenotype due to hormonal network alterations

14:20–14:40 In-person

**Alessandra Renella**

University of Molise, Italy

Title: Metabolomic characterization of autochthonous legume ecotypes

14:40–15:00 In-person

**Patricia Bourguignon Soares**

Federal University of Espirito Santo,  
Brazil

Title: Management tools for identifying cause–and–effect indicators determining the vitality of restinga vegetation affected by mining tailings mud for decision–making on preservation actions and environmental risk mitigation

15:00– 15:20 In-person

**Bahareh Sadat Haddadi**

Aberystwyth University, United  
Kingdom

Title: Metabolite and transcriptome profiling reveals drought adaptive strategies in the orphan African cereal, Tef (*Eragrostis tef*)

15:20–15:40 In-person

**Mehtap Aydın**

Yeditepe University, Turkey

Title: Analyses of (1,3;1,4)–Glucan synthesis during barley coleoptile growth

15:40–16:00 In-person

**Youssef El Kharrassi**

University Mohammed VI Polytechnic  
(UM6P)–Laâyoune, Morocco

Title: Medicinal desert plants as a valuable source of phytochemicals for cosmetic application: Biochemical analysis and in–vitro biological activities

16:00–16:20 | Coffee Break @Foyer

## (16:20-17:30) POSTER PRESENTATIONS

PP1

In-person

### **Maria Jose Jordan Bueso**

Murcia Institute of Agri-Food and Environmental Research (IMIDA), Spain

Title: Seasonal variation and watering level effect on *Lavandula latifolia* Medik. essential oil yield and quality

PP2

In-person

### **Geraldo Rossoni Sisquini**

Federal University of Espirito Santo, Brazil

Title: Data collection to carry out strategic analysis of production chains in Northeast Brazil

PP3

In-person

### **Adina Ionuta Gavrila**

National University of Science and Technology Politehnica Bucharest, Romania

Title: Microwave assisted extraction of phytochemicals from *Melissa officinalis* L with neuroprotective effect

PP4

In-person

### **Gustavo J. Caceres-Cevallos**

Murcia Institute of Agri-Food and Environmental Research (IMIDA), Spain

Title: Drought response of *Thymus zygis* ssp. *gracilis* pre-exposed to high-intensity light pre-treatment

PP5

In-person

### **Maria Quilez Simon**

Murcia Institute of Agri-Food and Environmental Research (IMIDA), Spain

Title: Effect of distillation on the yield and polyunsaturated fatty acid content of *Lavandula latifolia* and *Salvia lavandulifolia* Vahl. seeds. A commitment to the reevaluation of their productions

PP6

In-person

### **Sabrina Garcia Broetto**

Federal University of Espirito Santo, Brazil

Title: Proximal and remote detection of the health of restinga vegetation from the Brazilian coastal region under the influence of mining tailings

PP7

In-person

### **Mariela Mattos da Silva**

Federal University of Espirito Santo, Brazil

Title: Metal contamination and oxidative system in Brazilian restinga fruits

PP8

In-person

### **Juan Pablo Martinez**

Instituto de Investigaciones Agropecuarias (INIA-Rayentué), Chile

Title: In-vitro micropropagation of a salinity tolerant clonal rootstock issued from interspecific cross between glycophyte *Solanum lycopersicum* and halophyte *Solanum chilense*

PP9

In-person

### **Ioana Popa**

National University of Science and Technology Politehnica Bucharest, Romania

Title: Combined microwave and ultrasound technique as an efficient extraction method of bioactive compounds from flaxseed

Central European Summer Time (CEST)

PP10

In-person

**Danijela Ristic**

Maize Research Institute Zemun Polje,  
Serbia

Title: Changes in the free phenolic acids content in maize kernels after the different crop protection strategies for European corn borer attack

PP11

In-person

**Geraldo Rossoni Sisquini**

Federal University of Espirito Santo,  
Brazil

Title: Environmental management platform for rural properties in Brazil as an instrument to combat deforestation and reduce greenhouse gas emissions

PP12

In-person

**Maria Quilez Simon**

Murcia Institute of Agri-Food and  
Environmental Research (IMIDA),  
Spain

Title: Lipid phytonutrients of *Salvia lavandulifolia* Vahl. seeds from across the Iberian Peninsula

PP13

In-person

**Kanlaya Kong-Nger**

Khon Kaen University, Thailand

Title: Identification of salt responsive proteins in local rice leaf sheath (*Oryza sativa* L.) with nanoLiquid chromatography-tandem mass spectrometry

PP14

In-person

**Sompid Samipak**

Kasetsart University, Thailand

Title: Genetic diversity of *Cannabis sativa* in Thailand assessed using DARtseq analysis

PP15

In-person

**Londiwe Mabuza**

South African Environmental  
Observation Network, South Africa

Title: Targeted modification of the CENH3 gene in sunflower using a tomato yellow leaf curl (il-60-bs) viral vector system for the delivery of CRISPR/cas9 components

### KEYNOTE PRESENTATIONS

Central European Summer Time (CEST)

@LEONARDO A

08:50–09:00 | Opening Remarks

**Moderator:**  
Diolina Moura Silva, Federal University of Espirito Santo, Brazil

09:00–09:40 In-person

**Nelida Lucia Del Mastro**

Centre of Radiation Technology, IPEN/ CNEN, Brazil Title: Crucial role of fungi in environmentally sustainable agriculture

09:40–10:20 In-person

**Gopal Naik**

Indian Institute of Management (IIM)– Bangalore, India Title: Challenges in agriculture development in India

### ORAL PRESENTATIONS

**Chair:**  
Nelida Lucia Del Mastro, Centre of Radiation Technology, IPEN/CNEN, Brazil

10:20–10:40 In-person

**Ernestina Valadez–Moctezuma**  
Universidad Autónoma Chapingo,  
Mexico

Title: Fruit transcriptome profile comparison between prickly pear (*Opuntia albicarpa Scheinvar*) and xoconostle (*O. joconostle FAC Weber*)

10:40–11:00 In-person

**Angelantonio Calabrese**

Water Research Institute – National  
Research Council (CNR–IRSA), Italy

Title: The impact of agricultural crops and fertilizers used on the bacterial population of the soil and in particular on nitrifying and denitrifying bacteria

11:00–11:20 | Coffee Break @Foyer

11:20–11:40 In-person

**Raphael Linker**

Technion – Israel Institute of  
Technology, Israel

Title: Estimation of canopy nitrogen content in citrus orchards using UAV and satellite multi-spectral imagery

Central European Summer Time (CEST)

11:40–12:00 In-person

**Gopal Naik**

Indian Institute of Management (IIM)–  
Bangalore, India

Title: Is productivity a major constraint in India's competitiveness in the global agricultural commodity market?

12:00–12:20 In-person

**Amrutha T. Joshi**

University of Agricultural Sciences,  
India

Title: A study on financial feasibility and factors influencing production of dragon fruit in Karnataka province in India

12:20–12:40 In-person

**Lina Sarunaite**

Lithuanian Research Centre for  
Agriculture and Forestry, Lithuania

Title: The role of catch crop in improving soil fertility and plant nutritional status in boreal climates of Lithuania

12:40–13:00 In-person

**Jagoda Zmyslona**

University of Life Sciences in Poznan,  
Poland

Title: Technical environmental efficiency in agricultural fertilizer management in the context of overinvestment – A case study from Poland

13:00–14:00 | Lunch @Restaurant

14:00–14:20 In-person

**Anna Kirstgen**

Fraunhofer Institute for Systems and  
Innovation Research (ISI), Germany

Title: Exploring the future of Europe's sustainable urban agriculture initiatives trends and transformative narratives

14:20–14:40 In-person

**Diolina Moura Silva**

Federal University of Espirito Santo,  
Brazil

Title: Ecological impact on the photochemical apparatus is alleviated by increased cyclic electron flow around photosystem I in restinga plants following Brazil's largest environmental disaster

14:40–15:00 In-person

**Laura Gómez-Zamanillo**

Tecnalia, Spain

Title: Synthetic imaging for whitefly counting with few annotated real data

15:00–15:20 In-person

**Anja Korosa**

Geological Survey of Slovenia,  
Slovenia

Title: Nitrate leaching from agricultural lands by means of mini lysimeter

15:20–15:40 In-person

**Felicien Amakpe**

Ministere du Cadre de Vie et  
des Transport, en Charge du  
Developpement Durable, Benin

Title: Stem cutting approach for producing *Combretum micranthum* G. Don, a medicinal melliferous plant in Tropical Savannah areas



15:40–16:00

In-person

**Libertine Rose Sanchez**

Department of Science and Technology–Philippine Textile Research Institute, Philippines

Title: A review on bombyx mori: Microbial, viral and parasitoid diseases, detection and control

16:00–16:20

In-person

**Derek Scuffell**

Knowmatics, United Kingdom

Title: Cost-effective IoT solutions for pest management: Tackling invasive species in smallholder agriculture

16:20–16:40 | Coffee Break @Foyer

## (16:40-17:30) POSTER PRESENTATIONS

PP1

In-person

**Ausra Arlauskienė**

Lithuanian Research Centre for Agriculture and Forestry, Lithuania

Title: The influence of biological nitrogen and organic fertilizers on crop productivity in arable land under organic farming conditions

PP2

In-person

**J. Jesus Magdaleno Villar**

Universidad Autonoma Chapingo, Mexico

Title: Alternative organic substrates in hydroponic tomato production

PP3

In-person

**Hamil Uribe**

Instituto de Investigaciones Agropecuarias–INIA, Chile

Title: Effect of different levels of irrigation on yield and yield components of hazelnut (*Corylus avellana*) in Central Chile

PP4

In-person

**D. Valentina Mariscal-Aguayo**

Universidad Autónoma Chapingo, Mexico

Title: Online monitoring of the extension process in the vanilla (*Vanilla planifolia Jackson*) crop in Puebla and Veracruz, Mexico

PP5

In-person

**Masa Buden**

BioSense Institute, Serbia

Title: Assessing the impact of salinity stress on basil (*Ocimum basilicum* L.) using vegetative indices

PP6

In-person

**Nevena Stevanovic**

BioSense Institute, Serbia

Title: Setting-up a field experiment to collect data for the digital twin of crop growth

PP7

In-person

**Juan Martinez Solis**

Universidad Autónoma Chapingo, Mexico

Title: Morphological characterization of 47 accessions of calla lily (*Zantedeschia aethiopica* (L.) Spreng)

PP8

In-person

**D. Valentina Mariscal-Aguayo**

Universidad Autónoma Chapingo, Mexico

Title: Online monitoring of training for cocoa (*Theobroma cacao* L.) producers in Tabasco, Mexico

### KEYNOTE PRESENTATIONS

CEST Local Timings

@ZOOM MEETING

08:30–09:00 | AV Check

**Moderator:**

Saima Mohan, Hitachi India Pvt. Ltd., India

09:00–09:40 09:00–09:40

**Costantino Paciolla**  
University of Bari Aldo Moro, Italy

Title: Monochromatic LEDs lighting affects redox homeostasis and morphological traits in lentil seedlings

09:40–10:20 13:10–13:50

**Hit Kishore Goswami**  
Barkatullah University, India

Title: Modern taxonomic assessments should be based on poly-trait diagnostic approach, rather than only on molecular investigations

10:20–11:00 13:50–14:30

**Vijayan Gurumurthy Iyer**  
Bihar Institute of Public Administration & Rural Development (BIPARD), India

Title: Importance of plant science and molecular biology for the sustainable seed-cotton (or kapas) development

### ORAL PRESENTATIONS

**Chairs:**

Costantino Paciolla, University of Bari Aldo Moro, Italy

Edgar Omar Rueda Puentes, Universidad de Sonora, Mexico

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

Hit Kishore Goswami, Barkatullah University, India

11:00–11:20 17:00–17:20

**Xiaohong Tong**  
China National Rice Research Institute, China

Title: RLB (Rice Lateral Branch) recruits PRC2-mediated H3K27 tri-methylation on OsCKX4 to regulate cytokinin homeostasis and lateral branching in rice (*Oryza sativa* L.)

11:20–11:40 17:20–17:40

**Jie Huang**  
China National Rice Research Institute, China

Title: OsphyB mediates dim-light reduced insect resistance by promoting ethylene biosynthesis and signaling in rice

11:40–12:00 17:40–18:00

**Chuanen Zhou**  
Shandong University, China

Title: Regulation of compound leaf development in *Medicago truncatula*

12:00–12:20 15:30–15:50

**Manu Khajuria**  
Indian Institute of Integrative Medicine, India

Title: Adaptability of *Lepidium latifolium* L. to temperature variations in the Ladakh Himalayas: A comprehensive study

12:20–12:40

18:20–18:40

**Yanyou Wu**

Chinese Academy of Sciences, China

Title: Photosynthetic bicarbonate photolysis masked by the rapid oxygen isotopic exchange between water and bicarbonate

12:40–13:00

18:40–19:00

**Zhiwei Chen**

Shanghai Academy of Agricultural Sciences, China

Title: Improvement of the relative quantitative PCR method and its role in transcriptome data validation

13:00–13:20

14:00–14:20

**Mona Ali Albloushi**

Biotechnology Center, Qatar

Title: Evaluation of salt tolerance genes expressed in transgenes *Nicotiana tabacum*

13:20–13:40

11:20–11:40

**Kofi Frimpong Anin**

CSIR–CROPS Research Institute, Ghana

Title: Insect pest population dynamics of lowland rice in the forest belt of Ghana

13:40–14:00

14:40–15:00

**Leila Rossa Mouawad**

Lebanese University Faculty of Agronomy, Lebanon

Title: The status of the *Eurasian hoopoe* (*Upupa epops*) in Lebanon and its effect on the pine processionary caterpillar infestations

14:00–14:20

15:30–15:50

**Parisa Koobaz**

Agricultural Biotechnology Research Institute, Iran

Title: Evaluation of the response of some common cultivars and promising lines of rice to salinity stress

## POSTER PRESENTATIONS

14:20–14:30

21:20–21:30

**Juhan Park**

Konkuk University, Korea, Republic of

Title: Efficient micropropagation system in fruits and woody plants

14:30–14:40

09:30–09:40

**Marcia Aparecida Cezar**

Federal University of Paraíba, Brazil

Title: Performance of sugarcane seedlings infected with *Fusarium* and treated with the entomopathogen *Metarhizium anisopliae*

14:40–14:50

13:40–13:50

**James A Grant–Jacob**

University of Southampton, United Kingdom

Title: Playing with pollen grain structure using latent space

14:50–15:00

09:50–10:00

**Nata Carlos Lira Madeira**

Federal University of Espirito Santo, Brazil

Title: Non–conventional edible plants in market

15:00–15:10

15:00–15:10

**Zeinab Mohammed Mekki Kanani**  
University of Khartoum, Sudan

Title: Effect of polyamines and abscisic acid on germination and enzyme activity of *Sorghum (S.bicolor)* lines

15:10–15:20

14:10–14:20

**Meziane Kaci Zoubida**  
Saad Dahleb Blida 1 University,  
Algeria

Title: Pomegranate peel (*Punica granatum L.*) phytochemistry, quantification, identification of phenolic compounds and antioxidant activity

## ORAL PRESENTATIONS

15:20–15:40

16:20–16:40

**Ioannis Ladas**  
Antiochian House of Studies, Greece

Title: The role of ethics in molecular biology research on endangered plant species

15:40–16:00

19:10–19:30

**Saima Mohan  
Pranay Verma**  
Hitachi India Pvt. Ltd., India

Title: Digital payment realization connecting farmer's producer organization for farm supply management

16:00–16:20

08:00–08:20

**Jose Hipolito Rodolfo Mendoza Hernandez**  
Colegio de Postgraduados, Mexico

Title: Economic and productive impact of the implementation and use of agricultural irrigation in the state of Tabasco, Mexico

16:20–16:40

14:20–14:40

**Atta Kwesi Aidoo**  
CSIR–CROPS Research Institute,  
Ghana

Title: Profiling rice farms for the occurrence of major diseases at different growth stages in the Ashanti region of Ghana

16:40–17:00

14:40–15:00

**Kofi Frimpong Anin**  
CSIR–CROPS Research Institute,  
Ghana

Title: Harnessing native bioagents for sustainable management of fall armyworm *Spodoptera frugiperda*

## KEYNOTE PRESENTATIONS

17:00–17:40

11:00–11:40

**Rajnish Khanna**  
Carnegie Institution for Science at  
Stanford University, i-Cultiver Inc.,  
United states

Title: Mind the gaps between innovation and impact: Critical research to validate product claims for the future of a productive, nutritious, and globally sustainable food system

17:40–18:20

09:40–10:20

**Edgar Omar Rueda Puente**  
Universidad de Sonora, Mexico

Title: Agrobiotechnological experiences: *Cannabis spp.* as a new form of production in the desert regions of the world

18:20–19:00

21:50–22:30

**Ghanashyam Sharma**  
The Mountain Institute, India

Title: Organic agriculture as a strategy for sustaining ecosystem services and livelihoods in India

## ORAL PRESENTATIONS

19:00–19:20 22:30–22:50

**Rahul Chillawar**

Yeshwant Mahavidyalaya Nanded,  
India

Title: Identification phytochemical investigation and ethanobotanical study of *Vitex negundo* L

19:20–19:40 13:20–13:40

**Richard Dick**

Ohio State University, United States

Title: Optimized shrub–intercropping system: A novel rhizosphere alliance to increase crop production and mitigate drought in the Sahel

19:40–20:00 13:40–14:00

**Damanpreet Kaur Sraan**

University of Regina, Canada

Title: A sporopollenin definition for the genomics age

20:00–20:20 20:00–20:20

**Marco Di Luigi**

Inail, Italy

Title: Solina: An grown organically ancient grain for the environment protection and the farm workers safety

20:20–20:40 20:20–20:40

**Moleboheng Patricia Lekota**

National University of Lesotho,  
Lesotho

Title: Characterization and pathogenicity of fusarium species associated with soybean diseases

20:40–21:00 21:40–22:00

**Mehtap Aydın**

Yeditepe University, Turkey

Title: Analyses of (1,3;1,4)–Glucan synthesis during barley coleoptile growth

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End of Day 2

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### KEYNOTE PRESENTATIONS

Central European Summer Time (CEST)

@LEONARDO A

08:50–09:00 | Opening Remarks

**Moderator:**  
Marouane Ben Massoud, University College Cork, Ireland

09:00–09:40 In-person

**Veerangouda**

University of Agricultural Sciences–  
Raichur, India

Title: Study on optimization of spray parameters of drone mounted sprayer

09:40–10:20 In-person

**Ghanashyam Sharma**

The Mountain Institute, India

Title: Organic agriculture as a strategy for sustaining ecosystem services and livelihoods in India

10:20–11:00 In-person

**Somnath Roy**

Tocklai Tea Research Institute, India

Title: Non-chemical approach for the management of tea pests in the Northeast India: A sustainable approach

11:00–11:20 | Coffee Break @Foyer

### ORAL PRESENTATIONS

**Chair:**

Somnath Roy, Tocklai Tea Research Institute, India

11:20–11:40 In-person

**Dalila Trupiano**

University of Molise, Italy

Title: Shoot and root omics signature in phytostabilization and hyperaccumulation model plants

11:40–12:00 In-person

**Marjana Zajc**

Geological Survey of Slovenia,  
Slovenia

Title: Analyzing agricultural land conditions with non-invasive GPR and thermal UAV surveys

12:00–12:20 In-person

**Juan Martinez Solis**

Universidad Autónoma Chapingo,  
Mexico

Title: Morphological characterization of mamey fruits (*Pouteria sapota* (Jacq.) H. E. Moore & Stearn) in Cuetzala del Progreso, Mexico

Central European Summer Time (CEST)

12:20–12:40 In-person

**Henrik Barth**  
**Pia Ulvenblad**

Halmstad University, Sweden

Title: Safety first as a competitive advantage for agri-business

12:40–13:00 In-person

**Anna Maria Wojcik**

University of Silesia in Katowice,  
Poland

Title: The new player in the fight for plant regeneration: WOX5

13:00–14:00 | Lunch @Restaurant

14:00–14:20 In-person

**Moumita Roy Chowdhury**

KL University, India

Title: Genome-wide prediction of microRNAs and long non-coding RNAs and their interaction in *Hordeum vulgare*

14:20–14:40 In-person

**Jana Simeckova**

Mendel University in Brno, Czech  
Republic

Title: Potential of plasma-activated water use in agronomic practice and its effect on soil properties

14:40–15:00 In-person

**Marouane Ben Massoud**

University College Cork, Ireland

Title: Effect of exogenous treatment with *Nitric Oxide* (NO) on redox homeostasis in barley seedlings (*Hordeum vulgare L.*) under copper stress

15:00–15:20 In-person

**Hana Auer Malinska**

Jan Evangelista Purkyne University,  
Czech Republic

Title: Enhancing plant resilience through abiotic stress priming: Insights from *Miscanthus x giganteus*

15:20–15:40 In-person

**Rachadaporn Benchawattananon**

Khon Kaen University, Thailand

Title: Effect of moisture level on growth of rice (*Oryza sativa L.*) under green hydrogel (*Cladophora glomerata* and *Spirogyra sp.*)

15:40–16:00 In-person

**Moleboheng Patricia Lekota**

National University of Lesotho,  
Lesotho

Title: Characterization and pathogenicity of fusarium species associated with soybean diseases

16:00–16:20 | Coffee Break @Foyer

16:20–16:40 In-person

**S. Vijayachandra Reddy**

University of Agricultural Sciences,  
India

Title: A study on determinants for supply in retail markets by sweet orange farmers in Anantapuramu district of India

16:40–17:00 In-person

**Mallikarjuna Muddappa**

College of Agricultural Engineering,  
UAS, India

Title: Determination and assessment of morphometric analysis of Hirerayanakumpi sub-watershed in Krishna river basin of Raichur district, Kalyana-Karnataka, India using DEM and GIS techniques

Central European Summer Time (CEST)

17:00–17:20

In-person

**Nguyen Thi Thu Thuy**

Private sector, Vietnam

Title: TBA (To Be Announced).....

17:20– 17:40

In-person

**S. Vijayachandra Reddy**

University of Agricultural Sciences,  
India

Title: Study on resource use efficiency of redgram production in Karnataka

17:40 – 18:00

In-person

**Calvince Ouko Othoo**

University of Nairobi, Kenya

Title: Spatio-temporal analysis of soil erosion in fragile erosion-prone landscapes in Kenya using the Revised Universal Soil Loss Equation (RUSLE)

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End of Day 3 In-person Session



### KEYNOTE PRESENTATIONS

CEST Local Timings

@ZOOM MEETING

09:30–10:00 | AV Check

**Moderator:**  
Ana P.G.C. Marques, CBQF/ESB–UCP, Portugal

10:00–10:40 11:00–11:40

**Linas Balciauskas**  
Nature Research Centre, Lithuania

Title: Role of agricultural areas for preservation of mammalian diversity

10:40–11:20 14:10–14:50

**Shashi Vemuri**  
Food Hygiene Bureau, India

Title: Impact of climate change on insect pests

11:20–12:00 14:50–15:30

**V P S Arora**  
Venkateshwara Group of Institutions,  
India

Title: Technology driven Indian agriculture: Retrospect and prospect

12:00–12:40 18:00–18:40

**S.M Rezaul Karim**  
Universiti Putra Malaysia, Malaysia

Title: Empowering indigenous communities through agro–entrepreneurship training in millet–mushroom food innovations for nutrition and socio–economic development

12:40–13:20 16:10–16:50

**Vijayan Gurumurthy Iyer**  
Bihar Institute of Public  
Administration & Rural Development  
(BIPARD), India

Title: Importance of Environmental Impact Assessment (EIA) process for agricultural and horticultural projects, plans, programs, policies and legislative actions towards sustainable development

### ORAL PRESENTATIONS

**Chairs:**

Dachang Zhang, Water & Eco Crisis Foundation, United States  
V P S Arora, Venkateshwara Group of Institutions, India  
Linas Balciauskas, Nature Research Centre, Lithuania  
S.M Rezaul Karim, Universiti Putra Malaysia, Malaysia

13:20–13:40 19:20–19:40

**Gan Yangying**  
Guangdong Academy of Agricultural  
Sciences, China

Title: A comparative study of sweet corn industry development: Unveiling perspectives from China and the United States

13:40–14:00

12:40–13:00

**Ana P.G.C. Marques**  
CBQF/ESB–UCP, Portugal

Title: What is the part of the microorganisms living in the rhizosphere of plants in reducing hazardousness in phytoremediation strategies for soils contaminated with toxic metals?

14:00–14:20

17:30–17:50

**Somdatta Ghosh**  
Midnapore College, India

Title: *Arbuscular mycorrhizae* in myco–bioremediation of wastelands for sustainable global production

14:20–14:40

19:20–19:40

**Semuel Leunufna**  
Faculty of Agriculture Pattimura  
University, Indonesia

Title: Initial activities on bio–prospecting of Sky–Hold banana (*Musa troglodytarum L.*): Protection of the rights of indigenous community in Maluku Islands, Indonesia

14:40–15:00

18:10–18:30

**Senaka Lalith Dharmasri  
Amarathunga**  
Uva Wellassa University, Sri Lanka

Title: Integrating ethno–climatology knowledge to enhance climate resilience in organic tea cultivation: A case study of Sri Lankan tea smallholders

15:00–15:20

13:00–13:20

**Inoussa Compaore**  
Universite Nazi Boni, Burkina Faso

Title: The impact of urban market gardening on household livelihoods and food consumption

15:20–15:40

13:20–13:40

**Musa Baldeh**  
Surex Farms, Gambia

Title: Enhancing crop yield and sustainability through precision agriculture: Case Study

15:40–16:00

14:40–15:00

**Rolf Gael Mabicka Obase**  
University of Sciences and technology  
of Masuku, Gabon

Title: Influence of geology on physico–chemical parameters and fertility of ferralitic soils: Case of Gabonese sedimentary coastal and Granito–Gneissic basin

16:00–16:20

10:00–10:20

**Paul Luzuriaga**  
Florida International University,  
United States

Title: Arid soils regeneration through sustainable reforestation

16:20–16:40

10:20–10:40

**Navdeep Singh**  
Seneca Polytechnic, Canada

Title: Advancing sustainable agriculture: The role of variable rate technology in emission reduction and resource optimization for small–scale farmers

16:40–17:00

10:40–11:00

**Noemi Stadler–Kaulich**  
Research Institute, Bolivia

Title: Agroforestry as an opportunity to improve food security

## KEYNOTE PRESENTATIONS

17:00–17:40

11:00–11:40

### Dachang Zhang

Water & Eco Crisis Foundation, United States

Title: Suitaiology: Environmental protection, water resource creation and agricultural development in mountainous areas

17:40–18:20

09:40–10:20

### Edgar Omar Rueda Puente

Universidad de Sonora, Mexico

Title: The role of the agricultural engineer as a cultural editor in the longevity of a society: Agrobiotechnological experiences that have been obtained in some of the deserts and arid areas of the world

## ORAL PRESENTATIONS

18:20–18:40

10:20–10:40

### Esteban Solórzano Vega

Universidad Autónoma Chapingo, Mexico

Title: Environmental and morpho agronomic variability of *Faba bean* cultivation in Mexico

18:40–19:00

11:40–12:00

### Rubén D. Collantes

Instituto de Innovación Agropecuaria de, Panamá

Title: Alternative and sustainable use of agroecosystems in Panama

19:00–19:20

22:30–22:50

### Bagavathi Ammal

Pandit Jawaharlal Nehru College of Agriculture and Research Institute, India

Title: Post harvest prediction equation for groundnut crop in Mannadipet soil series of Puducherry

19:20–19:40

22:50–23:10

### Shumaila Shahid

ICAR– Indian Agricultural Research Institute, India

Title: Nanotechnology as a promising tool in the management of Fusarium oxysporum causing Fusarium wilt of cucurbits through green synthesized titanium dioxide nanoparticles

## POSTER PRESENTATION

19:40–19:50

21:10–21:20

### Mehrana Koochi Dehkordi

Agricultural Biotechnology Research Institute of Iran, Iran

Title: The effect of biopriming on quantitative and qualitative yield characteristics of *Melissa officinalis* L under water deficit stress in the second year of cultivation

### END NOTE

- The conference follows Central European Summer Time (CEST) for both In-person and Virtual sessions.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country.
- In-person presentations will take place in the LEONARDO A ROOM @NH Villa Carpegna and Virtual presentations will take place in Zoom meetings.
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.





*We wish to meet you again at our  
upcoming events*

5<sup>th</sup> Edition of Global Conference on

**Agriculture and Horticulture**

September 08-10, 2025 | Valencia, Spain | Hybrid Event

<https://agri-conferences.com/>

10<sup>th</sup> Edition of Global Conference on

**Plant Science and Molecular Biology**

September 08-10, 2025 | Valencia, Spain | Hybrid Event

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**Questions? Contact**

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