



**PMBWC  
2024**

August 17 to 18

**Plant Science  
and Molecular  
Biology World  
Conference**

Venue:  
Sercotel Sant Boi  
Barcelona, Spain



# FINAL PROGRAM

Time is as per Central European Summer Time (CEST)

## DAY 1 In-Person Presentations

08:00-08:50 Registrations

08:50-09:00 Opening Ceremony and Introduction

### Keynote Presentations

09:00-09:40 **Nodule-specific Cysteine-Rich Peptides: Antifungal Activity, Modes of Action and Potential for Development as Bioinspired Fungicides**  
Dilip M. Shah, Principal Investigator, Donald Danforth Plant Science Center, USA

9:40-10:20 **Improving Zinc Bioavailability in Rice (*Oryza Sativa* L.) Grain Grown in Red Acidic Soil of West Bengal**  
Sunandana Mandal, Moyna College Affiliated to Vidyasagar University, India

### Oral Presenters

10:20-10:50 **Diverging Adaptive Strategies to Drought Stress and Stalk-lodging Resistance in Maize**  
Silvia Calderone, Centre for Research in Agricultural Genomics (CRAG), Spain

10:50-11:20 **The DRO1 Gene Under Spotlight of Functional Genomics for Improving Tomato Root Architecture**  
Dalila Trupiano, University of Molise, Italy

### Group Photo

### 11:20-12:00 Coffee Break @ Lobby

12:00-12:30 **Genomic Basis of Ecological Plasticity in *Chouardia Litardierei* (Hyacinthaceae)**  
Sara Laura Sarančić, University of Zagreb, Croatia

12:30-01:00 **Exploring Microalgae-Plant Interactions: Insights from Plate Assays, Greenhouse Experiments, Auxin Biosynthesis and Microscopy Analysis**  
Margaret Mukami Gitau, Centre for Research in Agricultural Genomics (CRAG), Spain

### 01:00-02:00 Lunch @ Lobby

02:00-02:30 **Study of the Effect of Controlled Deficit Irrigation, Age and Year of Harvest on the Physical and Chemical Characteristics of the Fruits of Two Varieties of Pomegranate Grown in Morocco**  
Assia Ejilani, National Institute of Agricultural Research, Morocco

02:30-03:00 **Molecular diversity Analysis of *Retama* Species using ISSR, REP-PCR, ITS, and Plastidic Genes**  
Kaddouri Kaoutar, Mohammed V University, Morocco

### 03:00-03:30 Coffee Break @ Lobby

03:30-4:00 **Identification of the Symbiosome Secreted Host Proteins Involved in Symbiotic Nitrogen Fixation**  
Ilayda Goktepe Atilgan, Koc University, Turkey

### Poster Presenters

04:00-04:20	<b>Mechanisms of Temperature Acclimatization in the Psychrotolerant Green Alga <i>Coccomyxa subellipsoidea</i> C-169</b> Kinga Kania, University of Warsaw, Poland
<b>DAY-2 Virtual Presentations</b>	
8:30-09:00	AV setup
Virtual Oral Presenters	
09:00-09:40	<b>Agriculture High Quality Development</b> Zhongsheng Guo, Northwestern A & F University, China
9:40-10:20	<b>Study of Bioadsorption Kinetics for Heavy Metals</b> Aparna Gunjal, Dr. D.Y. Patil, Arts, Commerce & Science College, India
10:20-10:40	<b>Tannin Extraction from <i>Prosopis Pallida</i> (Mesquite)</b> Paul Luzuriaga, Florida International University, USA
10:40-11:00	<b>Lipoic Acid, a Multifunctional Molecule at the Intersection between Metabolism, Development and Stress</b> Michael Handford, University of Chile, Chile
11:00-11:20	<b>Effects on the Sporogenesis and Biocontrol Functions of <i>Trichoderma</i> spp. by the Mycoviruses</b> Beilei Wu, Chinese Academy of Agricultural Sciences, China
11:20-11:40	<b>Genetic Basis of High Photosynthetic Efficiency and High Yield in Wheat</b> Jin Ying Gou, Beijing Key Laboratory of Crop Genetic Improvement, China
11:40-12:00	<b>Production of High Purity Lignin from OPEFB: An Overview</b> Jofry Othmana, University Kebangsaan, Malaysia
12:00-12:20	<b>Molecular Insights into Cannabis Photochemistry: Examining the CBD and THC Effect on Photochemical Efficiency and Quantum Yield</b> Manu Khajuria, Plant Science & Agrotechnology Division (CSIR), India
12:20-12:40	<b>Nanoparticles in the Management of <i>Fusarium Oxysporum</i> Causing Fusarium Wilt of Cucurbits</b> Shumaila Shahid, Division of Plant Pathology, ICAR Indian Agricultural Research Institute, India
12:40-01:00	<b>Deciphering Genome-Wide Molecular Interaction Networks to Uncover the Regulatory Mechanism of SG Biosynthesis in <i>Stevia rebaudiana</i></b> Mamta Masand, CSIR-Institute of Himalayan Bioresource Technology, India
01:00-01:20	<b>Morphological and Molecular Variations of <i>Euryops Prostratus</i> B. Nord. and <i>Euryops Pinifolius</i> A. Rich. (Asteraceae) Based on ITS and trnL trnF Markers</b> Hanny Lidetu Solomon, Addis Ababa University, Ethiopia
01:20-01:40	<b>Implication of the Population Epigenomic Diversity on the Adaptation of a Plant Clonal Species</b> Le Vève Audrey, Department of Botany, Faculty of Science, Charles University, Czech Republic

01:40-02:00	<b>The Role of Si Application in the Resistance of Chestnut Plants Against Phytophthora Cinnamomi</b> Andreia Carneiro Carvalho, Centre for Research and Agro-Environmental Technologies and Biological Sciences (CITAB), Portugal
02:00-02:20	<b>Soil Communities' Recovery Associated to Gaultheria Poeppigii (Ericaceae) Rhizosphere after 7 years of a High Severity Wildfire in a Temperate Forest in the Andes Range</b> Camila Cifuentes Croquevielle, Institute of Environmental and Evolutionary Sciences, Austral University of Chile, Chile
02:20-02:40	<b>Characterization and Valorization of Autochthonous Bean (phaseolus vulgaris L.) and lentil (lens culinaris medik) Ecotypes</b> Alessandra Renella, University of Molise, Italy
02:40-03:00	<b>Exploring Foliar and Soil Silicon Application for Drought-Resilient Crop Production</b> Olajumoke Ogedengbe, University of Melbourne, Australia
03:00-03:20	<b>Nanotechnology as Emerging Trend</b> Kinza Tahir, Plant Sciences, University Of Brighton, United Kingdom
03:20-03:40	<b>Living Matter as A Factor in the Formation Of The Elemental Composition of the Environment</b> Korzh V.D, P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences (IORAS) Moscow, Russia
03:40-04:00	<b>The Relationship of <math>\delta D</math> and <math>\delta^{18}O</math> in Soil Water and its Implications for Soil Evaporation Across Distinct Rainfall years from Winter Wheat Field in the North China Plain</b> Mounkaila Hamani Abdoul Kader, Hainan University, China
04:00-04:20	<b>Cytochrome P450 Enzyme CYP716A is a Gatekeeper of Bitter and Hemolytic Triterpenoid Biosynthesis in Chenopodium Quinoa</b> Pravesh Kundu, CSIR-Institute of Himalayan Bioresource Technology, India
04:20-04:40	<b>First Description of Simplicillium Lanosoniveum, a Potential Antagonist of the Coffee Leaf Rust from Cuba</b> Isel González Marrero, Cumanayagua Territorial Plant Protection Station, Cuba
04:40-05:00	<b>Retama monosperma (L.) Boiss.: A Review of its uses in Traditional Medicine, Chemical Constituents, and Pharmacologic Activities</b> Fatima Zahra Benkhoulili, Laboratory of Medicinal Chemistry, Department of Drug Sciences, Faculty of Medicine and Pharmacy, Mohammed V University in Rabat, Morocco
05:00-05:20	<b>Agromorphological and Chemical Diversity of the Genus Mentha for a Future Selection Programme of Interesting Genotypes</b> Benjeddi Abir, Mohammed V University – Morocco. National Institute of Agricultural Research – CRRA., Morocco
05:20-05:40	<b>How can High Throughput Phenotyping Help Food Security in the Mediterranean Area?."</b> Wejden Brahmi, National Institute of Agronomical Research in Tunisia, Tunisia
Virtual/Poster Presenters Line up	
05:40-06:00	<b>The Impetus For Tissue Cultures Research on Secondary Metabolites Originating From Flower and Leaf Buds Of European Ash</b> Małgorzata Osmenda, The State Forests National Forest Holding, Poland

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