



UNITED Scientific
Group
A non-profit organization

3rd International Conference on
**PLANT SCIENCE
AND RESEARCH**

May 10-11, 2021 | Virtual Conference

Final Program

Day 1 (May 10): Starts at 9:00 AM Central Daylight Time

Day 2 (May 11): Starts at 10:30 AM Central European Summer Time (Germany)

*Note: Please check the Speakers local time along with Program Time.

Time Zone

09:00 AV Check
09:30 Introduction to Meeting

Central Daylight Time (CDT) **Speakers Local Time**

Keynote Talks

Chair:
Mustafa Morsy, *University of West Alabama, United States*

09:50 09:50 **Problem-Solving in Agricultural Production in the Developing Countries**
Mohammad Babadoost, *University of Illinois, United States*

10:20 11:20 **Plant Absorption of Soil Microbes into Root Cells and its Consequences for Root Growth and Soil Nutrient Acquisition**
James F. White, *Principal investigator, Rutgers University, United States*

10:50 11:50 **Nanotechnology and Agriculture: Tuning Agrochemical Chemistry at the Nanoscale to Maximize Crop Production**
Jason C. White, *Director, The Connecticut Agricultural Experiment Station, United States*

11:20 12:20 **Using Lasercapture Microdissection to Unravel Nodulation Signaling**
Julia Frugoli, *Alumni Distinguished Professor, Clemson University, United States*

11:50 **Break**

Invited Talks

Chair:
Mustafa Morsy, *University of West Alabama, United States*

12:10 13:10 **Role of Nanoscale Cu in Suppressing Plant Diseases**
Wade H. Elmer, *Vice Director, The Connecticut Agricultural Experiment Station, United States*

12:30 13:30 **Towards Achieving a Resilient and Sustainable Food System While Facing the Challenges of Climate Change and COVID-19**
Jock R Anderson, *Rutgers State University of New Jersey, United States*

12:50 12:50 **Seed Transmitted Proteobacteria form the Core Microbiome of Juvenile Angiosperm Plants**
David Johnston-Monje, *Universidad del Valle, Cali, Colombia*

Oral Presentation

Chair:
AD Ali, *Davey Tree Expert Company, United States*

13:10 13:10 **Insights into the Molecular Mechanisms of a Three-Way Plant-Fungus-Virus Symbiosis Leading to Extreme Thermotolerance**
Mustafa Morsy, *University of West Alabama, United States*

13:30	14:30	Endophytes in the Cannabaceae <i>April Elizabeth Micci, Rutgers University, United States</i>
13:50	14:50	Plant Growth Promoting Bacteria Identified for the Biocontrol of <i>Botrytis cinerea</i> in Floriculture Crops <i>Kaylee South, The Ohio State University, United States</i>
14:10	15:10	Novel Crop Protection Strategies to Prevent Losses to the Pest and Pathogens to Attain Sustained Productivity Under Uncertain Environmental Conditions <i>Sachin Rustgi, Clemson University, United States</i>

14:30 Break

14:50	14:50	A Novel Locus from <i>Oryza latifolia</i> Desv. Confers Qualitative Bacterial Blight (<i>Xanthomonas oryzae</i> Pv. <i>oryzae</i>) Resistance in Rice (<i>Oryza sativa</i> L.) <i>Rosalyn B. Angeles-Shim, Texas Tech University, United States</i>
15:10	15:10	Granulated Polyhalite as Alternative Source of Nutrients for Coffee (<i>Coffea Arabica</i> L.) in Colombia <i>Hernan Gonzalez Osorio, National Coffee Research Center – Cenicafé, Colombia</i>
15:30	15:30	Colombian Coffee Area Vulnerable to Coffee Berry Borer <i>Hypothenemus hampei</i> (Curculionidae: Coleoptera) Under Different Climatic Scenarios <i>Marisol Giraldo Jaramillo, National Coffee Research Center – Cenicafé, Colombia</i>

E-Poster Presentation

Chair:

AD Ali, Davey Tree Expert Company, United States

15:50	17:50	Predicting Wheat Phenology Based on Vrn-1, Ppd-1 and Eps Genes <i>Mariana Rita Jardon, Universidad de Buenos Aires, Argentina</i>
16:00	17:00	Effects of Endophytic <i>Pseudomonas</i> spp. from <i>Agave</i> on Crop Growth and Pathogen Resistance <i>Qiuwei Zhang, Rutgers University, United States</i>
16:10	17:10	Development of a Protocol for the in Vitro Propagation of <i>Microsorium scolopendria</i> from Spores <i>Claudia Fassio, Pontificia Universidad Catolica de Valparaiso, Chile</i>
16:20	17:20	Temporary Immersion System to Suitable in Vitro Production of <i>Curcuma longa</i> from Rapa Nui Island <i>Monica Castro, Pontificia Universidad Catolica de Valparaiso, Chile</i>
16:30	18:30	Anitichilamydial Activity of <i>Hydrocotyle bonariensis</i> LAM <i>Alejandra Catalano, Universidad de Buenos Aires, Argentina</i>
16:40	17:40	Root Architecture and Functional Traits of Spring Wheat Under Contrasting Water Regimes <i>ABDELHALIM, Talca university, Chile</i>
16:50	16:50	Acclimatization Ex Vitro of Avocado's Rootstock (<i>Persea americana</i> Mill.) in Comercials Planting <i>Lina Maria Arbelaez Galvis, Universidad de Antioquia, Medellín - Colombia</i>

Time Zone

Central Speakers
European Local
Summer Time
Time
(CEST)

10:30		AV Check
		Invited Talks
10:50	10:50	Microbial Hotspots & Hot Moments in the Rhizosphere Yakov Kuzyakov , <i>University of Gottingen, Germany</i>
		Oral Presentation
		Chair: Yakov Kuzyakov , <i>University of Gottingen, Germany</i>
11:10	12:10	Behavioral Responses of Sweet Potato Weevils and Volatile Changes Associated with Infestations Milton Otema Anyanga , <i>National Agricultural Research Organization, Uganda</i>
11:30	11:30	Calcium Nutrition in Coffee and its Influence on Growth, Stress Tolerance, Cations uptake, and Productivity Victor Ramirez , <i>Senior Scientific and Coffee Crop Expert, Yara International, Germany</i>
11:50	14:50	Planting Density and Integrated Nitrogen Regarding Productivity, Agribusiness Feasibility, and Enhancement of Soil Physio-Chemical Properties of Maize Farhan Ahmad , <i>The University of Agriculture Peshawar, Pakistan</i>
12:10	14:10	Sustainable Management of Calcareous Saline-Sodic Soil in Arid Environments: the Leaching Process in the Jordan Valley Mufeed Batarseh , <i>Abu Dhabi Polytechnic, Institute of Applied Technology, United Arab Emirates</i>
12:30		Break
		Chair: Yakov Kuzyakov , <i>University of Gottingen, Germany</i>
12:50	18:50	Identification, Association of Natural Variation and Expression Analysis of Zm NAC9 Gene Response to Low Phosphorus in Maize Seedling Stage Javed Hussain Sahito , <i>Sichuan Agricultural University, China</i>
13:10	14:10	High Throughout Multi-Omic Characterization of a Solanum Introgression Population Unravels Novel Determinants of the Ripening Process Samuel Bocobza , <i>ARO, Volcani Center, Israel</i>
13:30	13:30	Phytochemical and Genetic Characterization of 10 Selected Wild Hop (<i>Humulus lupulus</i> L.) from Italy Margherita Rodolfi , <i>University of Parma, Italy</i>
13:50	14:50	Isolation of Triterpenes from <i>Boswellia pirottae</i> Resin, Ethiopia Sisay Awoke , <i>Wollo University, Ethiopia</i>

E-Poster Presentation

Chair:

Mufeed Batarseh, Abu Dhabi Polytechnic, Institute of Applied Technology, United Arab Emirates

14:10	13:10	Response of Wheat Towards Abiotic (Salinity) & Biotic (Bipolaris Sorokinia) Stresses Solely and Simultaneously at Physiological, Biochemical and Molecular Levels Mohammed Obied Alshaharni , Newcastle University, United Kingdom
14:20	14:20	Nano-Silver Particles Reduce Contaminations in Tissue Culture but Decrease Regeneration of Aldrovanda Vesiculosa Explants Marzena Parzymies , University of Life Sciences in Lublin, Poland
14:30	14:30	Flowers' Essential Oil from <i>Ridolfia segetum</i> (Guss.) Moris as an Insecticide Source Natale Badalamenti , Università degli Studi di Palermo, Italy
14:40	14:40	Heat Stress at the Time of Meiosis Triggers Cytoskeletal Alterations and Severely Reduces Fertility and Grain Yield in Wheat Attila Fabian , Centre for Agricultural Research, Hungary
14:50	18:20	A Comparative Study of Soil and Foliar Nickel Application on Growth, Yield and Nutritional Quality of Barley (<i>Hordeum vulgare</i> L.) Grown in Inceptiso Satish Kumar Singh , Banaras Hindu University, India
15:00	15:00	Green Extraction Processes for High-Value Bioactive Compounds from Plants: Theory and Practice Amine Nekkaa , Laboratoire Réactions et Génie des Procédés (LRGP), France
15:10	15:10	Phenotyping and Genotyping of Tomato Thermotolerant Lines to Get Heterotic Hybrids for Yield-Related and Fruit Quality Traits Salvatore Graci , University of Naples "Federico II", Italy
15:20	15:20	Encapsulation of cv. "Columbus" Microcuttings: A Valid Technology for hop Propagation Benedetta Chiancone , University of Parma, Italy
15:30	18:30	Homology Modeling and Docking Analysis of βC1 Protein Encoded by Cotton Leaf Curl Multan Betasatellite with Different Plant Flavonoids Muhammad , University of Agriculture, Pakistan
15:40	16:40	An Endangered Species of Drypetes (Putranjivaceae) Discovered by J. Léonard in the Democratic Republic of the Congo Alejandro Quintanar , Real Jardín Botánico de Madrid CSIC, Spain
15:50	09:50	Metabolites and Mineral Nutrient Profiles of Maize Roots Upon Soil Exposure to Zerovalent Iron Nanoparticles Yi Wang , Connecticut Agricultural Experiment Station, United states
16:00		Closing Remarks



(VIRTUAL)
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