

Global Plant Science and Plant Biology Community and Network

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2ND WORLD CONGRESS ON

ADVANCES IN PLANT SCIENCE AND PLANT BIOLOGY

JULY 13-14, 2026 | BERLIN, GERMANY

Theme: "Advancing Plant Science and Biology:
Cutting-Edge Technologies and Sustainable Solutions"

ADV. PSPB 2026



SUB THEMES

- Innovations in Plant Biotechnology: Pioneering Sustainable Solutions
- Plant Genetics and Genomics: Unlocking the Secrets of Crop Improvement
- Sustainable Agriculture and Food Security: Bridging Science and Practice
- Climate Resilience in Plant Systems: Adapting to Global Changes
- Emerging Technologies in Plant Research: From Bench to Field Applications
- Integrative Plant Biology: Connecting Molecules to Ecosystems
- Plant-Based Biologics: Transforming Medicine and Industry
- Conservation and Biodiversity: Preserving Plant Heritage for Future Generations



WHY TO ATTEND?

What you take

Attending a plants science conference offers a unique opportunity to connect with leading professionals, explore emerging trends in plant science and plant biology, and gain insights into groundbreaking innovations. It plays a vital role in career development by enhancing clinical knowledge, expanding skill sets, and opening new doors for collaboration and advancement.

125
+



EDUCATIONAL
SESSIONS

60
+



INTERNATIONAL
SPEAKERS

20
+



HOURS OF
NETWORKING EVENTS

12
+



INNOVATIVE
FEATURED SPEAKERS

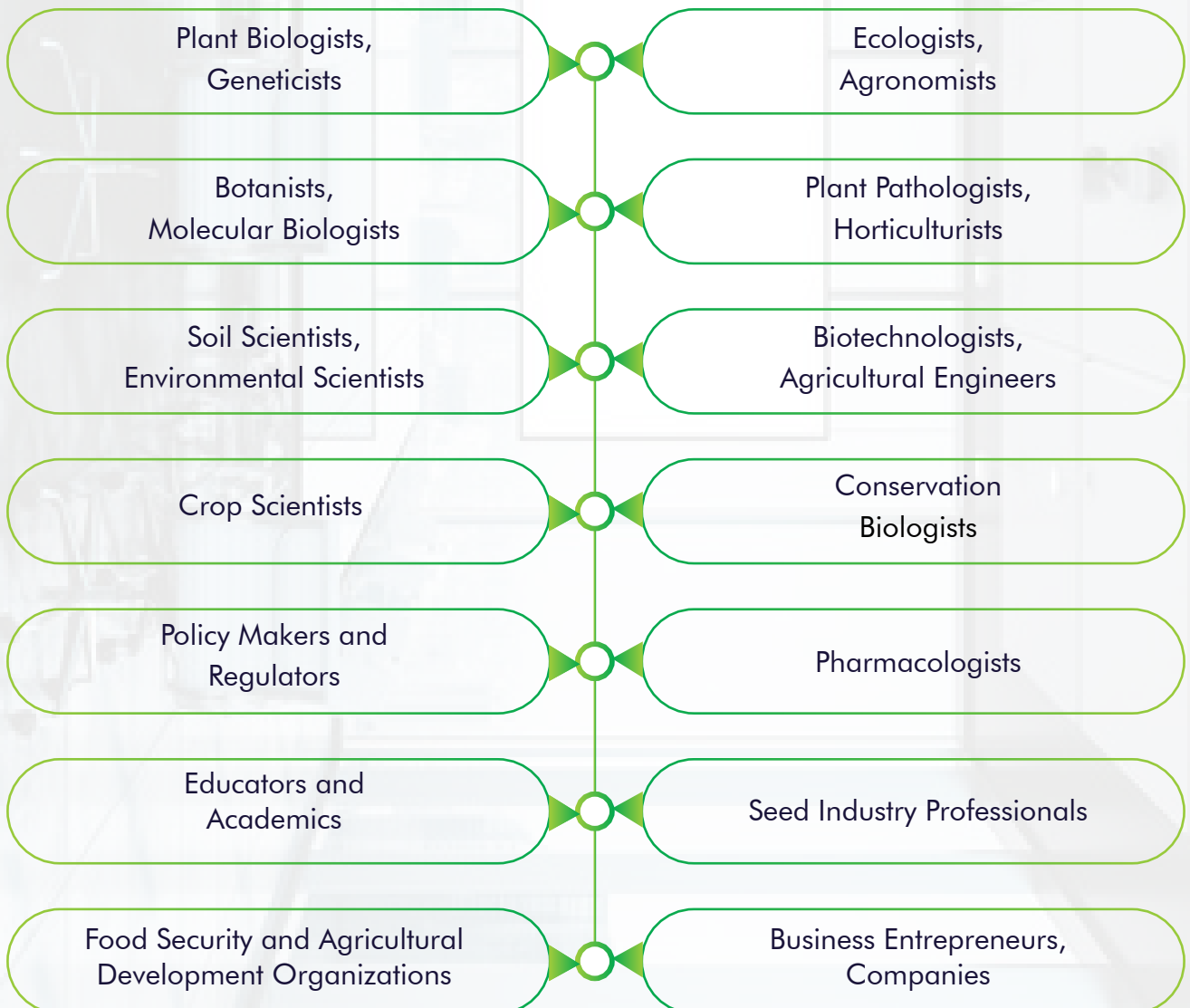
02



02 Day
Conference



WHO SHOULD ATTEND?





SRINIVASA RAO MENTREDDY

Ph.D. Professor and Chairman

Department of Natural Resources and Environmental Sciences College of
Agricultural, Life and Natural Sciences Normal, Alabama, USA



Welcome to the 2nd World Congress on Advances in Plant Science and Plant Biology July 13-14, 2026, Berlin, Germany

It is indeed my pleasure and a privilege to welcome each participant at the 2nd World Congress on Advances in Plant Science and Plant Biology in Berlin, Germany. As the human population expands at geometric proportions, the need for science-based solutions to agricultural production, product development, and utilization-related challenges is becoming increasingly apparent and vital. Agricultural production is not business as usual. As climate-change effects are burgeoning perceptibly in our day-to-day lives, agriculture must shift to climate-smart practices to sustain the environment. Science has and continues to innovate continuously and find solutions to feed the masses and improve living standards! This conference, with experts in 54 technical topics related to Plant Science and Plant Biology, aims to provide a forum for the exchange of scientific ideas and research findings, stimulate the development of research-based solutions for efficient and innovative means of ensuring food safety and security, foster networking, and provide ambiance for researchers, scientists, students, and industry professionals to meet, interact and develop relationships. We will be discussing issues related to a myriad of topics including but not limited to genomics to agronomy, climate change effects, soils, micro and macro biomes, phytochemistry, genetics, biochemistry, biotechnology/molecular biology, postharvest processing/handling and manufacturing techniques. These topics are crucial in our collective efforts to improve the quality and standards of human life through innovative research in plant science and plant biology!

Your participation, sharing of knowledge, and interaction with one another are crucial as we strive to ensure food production, food safety, and food security through a better understanding of plant science and biology. Together, we push the frontiers of science further in our efforts to mitigate the effects of climate change on agriculture, food safety, and security. On behalf of the organizers and program committee, I hope you will find this conference and venue most productive and enjoyable and that you leave with a deeper understanding of our shared goals.

Srinivasa Rao Mentreddy,

Ph.D. Professor and Chairman

Department of Natural Resources and Environmental Sciences College of Agricultural,
Life and Natural Sciences Normal, Alabama, USA



MARIA ANGELICA OUELLETTE

Research Scientist
Lakeland Agricultural Research Association, Canada

Dear Distinguished Scholars and Colleagues,

It seems that we have created all the tools for survival and thrive but still fail to make our existence go along with the course of nature. In some of these cases it seems that one solution is actually another problem caused to resolve a previous problem. But as the humans that we are it is in us to never give up and find in us answers to make a better world, where not only we can live in harmony with each other but also in tune with the world that sustains us and gives us so much to keep on living.

At the World Congress on Advances in Plant Science and Plant Biology, we welcome you to show us a way to see the world differently. To use ancient knowledge and remarkable innovation and promote avenues to inspire, research and with patience and persistence keep discovering the unknown.

We greatly appreciate you joining us on this wonderful quest. It is envisioned that these two days are part of your journey towards better world sustainability.

Warm regards,

Maria Angelica Ouellette PhD.

Research Scientist

Lakeland Agricultural Research Association, Canada

PRESENTATION FORUM

01

KEYNOTE FORUM / MINI-PLenary SESSIONS

Presentations under Keynote Forum or Mini-Plenary Sessions includes abstracts with remarkable research value selected by the program committee. These significant speeches are delivered by globally recognized honorable speakers and it is open to all registrants.

DISTINGUISHED SPEAKERS FORUM (ORAL ABSTRACT SESSIONS)

In this forum, speakers and experts of the research field gets an opportunity to showcase their noble research work that involves comprehensive research findings. These formal oral presentations include a wide range of talks covering basic research to advanced research findings in accordance to the theme and scientific sessions of the conference.

02

03

STUDENT FORUM / POSTER SESSION

This session is particularly introduced to encourage more number of student participation at international conferences, however it is not restricted only to students since it is also available for the participants with language barrier. There are specific guidelines to be followed to prepare the poster. Poster topic should be selected only from relevant scientific sessions with in-depth technical details.

YOUNG INVESTIGATORS FORUM

An exclusive opportunity for students and young investigators to present their research work through a formal oral presentation. Young Investigators Forum provides a global platform for young researchers and scholars to showcase their valuable contribution to the scientific world and to get acknowledged by the global scientific community of experts. It is an excellent opportunity to recognize young scientific assets with promising research ideas. These oral presentations are of shorter time duration with 10-15 minutes of informative and precise presentations in relevant scientific sessions.

04

05

EDUCATIONAL WORKSHOPS/RESEARCH WORKSHOPS/ CORPORATE WORKSHOPS/MINI- SYMPOSIA

With an aim of transferring knowledge among the participants, workshops are introduced as a part of international conferences. These interactive and occasionally practical sessions gives an opportunity for participants to engage in detail discussion. Workshops are mostly scheduled for 60 to 90-minutes. It may range from learning about a specific topic relevant to international education, products and research which sometimes involves practical demonstration. It helps in enhancing skills, knowledge and understanding of the research field in depth through interactive discussions.

HIGHLIGHTS OF THE DAY SESSIONS

"Highlights of the Day Sessions" is introduced to discuss and focus a ray upon previous day ORAL ABSTRACT presentations by experts to summarise the key findings. It helps in getting better insights into the various dimensions of the topic.

06

07

MEET THE PROFESSOR @ NETWORKING SESSIONS

This session involves open discussion between the experts and session attendees, it gives enough time for getting answers to specific questions and doubts. It is an opportunity for attendees to increase their professional networking, sometimes also leads to an excellent collaboration opportunity.

EDUCATIONAL SESSIONS/ TRAINING PROGRAMS

Educational Sessions or training programs are specifically designed for a better understanding of the latest findings and technologies. These are generally 45-minute sessions that gives an exposure to the multidisciplinary field, that provides in-depth learning experiences and address educational needs.

08

ACADEMIC REGISTRATIONS

BUSINESS REGISTRATIONS

01

Speaker Registration

COMBO A

(Registration +
2 Night Accommodation)

COMBO B

(Registration +
3 Night Accommodation)

Delegate Registration

02

Speaker Registration

COMBO A

(Registration +
2 Night Accommodation)

COMBO B

(Registration +
3 Night Accommodation)

Delegate Registration

STUDENT REGISTRATIONS

ADDITIONAL REGISTRATIONS

Registration

YIF

COMBO A

(Registration +
2 Night Accommodation)

COMBO B

(Registration +
3 Night Accommodation)

Posters

03

Accompanying Person

E-Poster

Virtual Presentation

Workshops

Start-Ups

04



REGISTER & PARTICIPATE

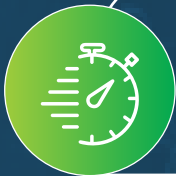
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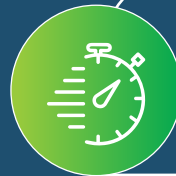
CONCURRENT EDUCATIONAL SESSIONS



MONDAY - JULY 13, 2026

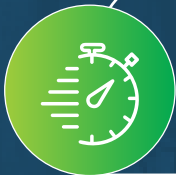


- Plant Genomics
- CRISPR-Cas9 in Plants
- Plant-Microbe Interactions
- Plant Hormones

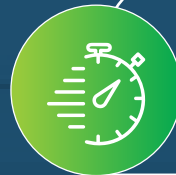


- Plant Pathology
- Photosynthesis Efficiency
- Plant Biotechnology

GROUP PHOTO | COFFEE BREAK

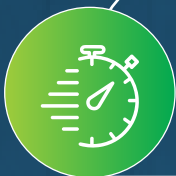


- Crop Improvement
- Plant Metabolomics
- Plant Proteomics



- Sustainable Agriculture
- Plant Breeding
- Plant Cell Signaling

LUNCH BREAK

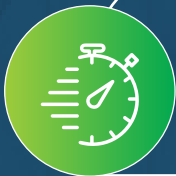


- Plant Adaptation
- Phytoremediation
- Plant Defense Mechanisms



- Plant Physiology
- Plant Epigenetics
- Plant Nutrient Uptake
- Plant-Insect Interactions

GROUP PHOTO | COFFEE BREAK



- Transgenic Plants
- Drought Tolerance in Plants
- Plant-Microbiome



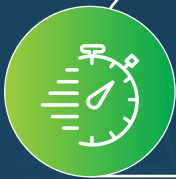
- Plant Tissue Culture
- Soil Plant Interactions
- Plant Genetics
- Climate Change Impact on Plants



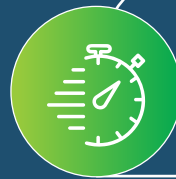
CONCURRENT EDUCATIONAL SESSIONS



TUESDAY - JULY 14, 2026

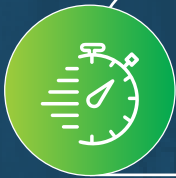


- Plant Evolutionary Biology
- Plant Disease Resistance
- Plant Developmental Biology

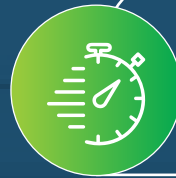


- Herbicide Resistance
- Plant Ecology
- Plant Bioinformatics
- Aquatic Plant Biology

GROUP PHOTO | COFFEE BREAK

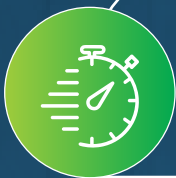


- Plant-Microorganism Symbiosis
- Agricultural Biotechnology
- Plant Growth Regulators

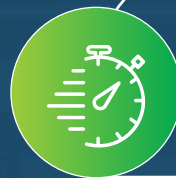


- Molecular Plant Pathology
- Plant Reproductive Biology
- Plant-Environment Interactions

LUNCH BREAK

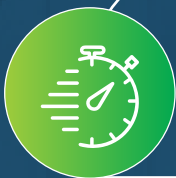


- Photosynthetic Pathways
- Plant Metabolism
- Plant Immunity



- Allelopathy
- Biotic and Abiotic Stress in Plants
- Plant Synthetic Biology

GROUP PHOTO | COFFEE BREAK



- Aquatic Plant Biology
- Plant Secondary Metabolites
- Plant Phenomics



- Plant-Insect Interactions
- Plant Systematics and Taxonomy
- Genetic Diversity in Plants
- Plant Biomass and Biofuels



2ND WORLD CONGRESS ON ADVANCES IN PLANT SCIENCE AND PLANT BIOLOGY



JULY 13-14, 2026
BERLIN, GERMANY

<https://www.plantsciencecoference.com/>

Featured Speakers

Presentation Titles

Carmine Gorga

The Somist Institute, USA

**A Declaration of Economic
Interdependence With Three Applications**

Srinivasa Rao Mentreddy

Alabama A&M University, USA

**Evaluation of Basil (*Ocimum* spp.) for
antidiabetic and antimicrobial properties**

Alice Hayward

The University of Queensland, Australia

**Tissue Culture-Driven Solutions for
Horticulture**

Hermine Carine

Sandwell and West Midlands NHS Trust Midland
Metropolitan University Hospital, UK

**Bone Health in Type 1 and Type 2
Diabetes: Pathological Mechanisms,
Clinical Implications, and Management
Strategies**

Mohammad Zarif Sharifi

School of Natural and Environmental Science,
Newcastle University, UK

**Evaluation of Soybean Cultivars for
Adaptability and Yield Performance in
Kabul's Agro-Climatic Conditions**

Christoph Wulf

Freie Universität Berlin, Germany

The Anthropocene as a Challenge

Roberto Aprile

University of Bergamo, Italy

**Implementing and Managing ESG in a
Family Business in the light of Institutional
Theory**

Muhammad Amir Muawiya

University of Tuscia, Italy

**Circular Protection Approaches for the
Control of Xanthomonadaceae Plant
Pathogens: Antibacterial Efficacy of
Pomegranate Peel Extract and Cellulose
Nanocrystals**

Sarah Caronni

Department of Earth and Environmental
Sciences, University of Milan-Bicocca, Italy

**Sorghum bicolor subsp. bicolor as a
source of bioactive compounds acting on
cholesterol: first data on its lipid-derived
extracts**



SPEAKER SLOTS AVAILABLE

zhongsheng Guo

Northwestern A & F University, China

Regulation Mechanism of plant resource relationship regulation Format

Lin Zhu

Anhui Agricultural University, China

Most appropriate nozzle of six-rotor UAV for prescribed spraying liquid in tea plantation under combined effects of downwash flow structure

Abdul Baess Keyhani

Huazhong Agricultural University, China

Human Traffic Intensity Alters the Soil Microbial Community Composition, Diversity, and Structure in Subtropical Urban Green Spaces

Yuan-Ming Zhang

Huazhong Agricultural University, China

New mixed model methodologies for genome-wide association studies in big-data and AI era

Monira Fayaz

Huazhong Agricultural University, China

Impact of Fertilizers Application on Leaf Litter Decomposition and Nutrient Cycling in White Poplar (*Populus alba* L.) Forest Ecosystem

Fatima Zaman

Huazhong Agricultural University, China

Short-day shading increases soluble sugar content in citrus fruit primarily through promoting sucrose distribution, starch degradation and sucrose storage ability

Xia Cui

Institute of Vegetables and Flowers, China

Genetic and Molecular Mechanisms Underlying High-Temperature Regulation of Tomato Flowering

Zainib Babar

School of Agriculture and Biology, Shanghai Jiao Tong University, China

Characterization and Molecular Mechanism Analysis of Phythium RxLR effectors across oomycete species

Heictor Alves de Oliveira Costa

University of Campinas, Brazil

Sustainable Agriculture through H₂S Valorization: An Optimized Electrolysis Approach

Olivia Diulen Costa Brito

Marechal Cândido Rondon, Brazil

Proteins of *Pycnoporus sanguineus* have nematicidal activity and induce resistance to *Meloidogyne* spp. in Micro-Tom tomato plants

Andrieli de Oliveira CARDOSO

Master's degree in Accounting Sciences from the Postgraduate Program in Accounting Sciences at the Federal University of Santa Maria, Brazil

Energy Management and Climate Change: A Study of Universities Participating in the UI GreenMetric Ranking



SPEAKER SLOTS AVAILABLE

Axell Lins

Federal University of Pará (UFPA), Brazil

Amyris balsamifera essential oil promotes anesthesia in *Colossoma macropomum* (Cuvier, 1818): electrophysiological tools in the indication of a therapeutic window

Liliane Santos Camargos

School of Engineering, São Paulo State University (UNESP), Brazil

Potential for using tropical legumes in the phytoremediation of soils contaminated with excess micronutrients

Denis Carlos Lima Costa

Federal Institute of Education, Science and Technology of Pará – IFPA Ananindeua, Brazil

Analysis of Electrolyzer Cell Memory via Fractional Calculus and Machine Learning for Efficient Green Hydrogen Production

Ana Paula Simões Castro

Federal University of Southern and Southeastern Pará, Brazil

School Gardens as Sustainable Food and Medicinal Plant Systems in the Verde para Sempre Extractive Reserve: Integrating Plant Science and Traditional Knowledge in the Brazilian Amazon

Freeman John Cook

Freeman Cook & Associates, New Zealand

Oxygen Transport into Soil Via Radial Root Oxygen Loss

Pannaga Krishnamurthy

National University of Singapore, Singapore

Translating mangrove ion transport strategies to engineer salt-tolerant crops

Luis Manuel Guadarrama Escobar

International Centre of Crop and Digital Agriculture, Australia

Rethinking abiotic stress tolerance breeding through phenomics

Marta Solé

Laboratory of Applied Bioacoustics, Universitat Politècnica de Catalunya, Spain

Seagrass *Posidonia* is impaired by human-generated noise

Frisco M. Malabanan

Department of Agriculture, Elliptical Road, Philippines

Progress of the Agricultural Sector in the Philippines: A Focus on Hybrid Rice Program Implementation and Private Sector Mobilization

Gilbert Mugwaneza

Department of Food Security and Agricultural Development, Kyungpook National University, Republic of Korea

Simulation-Based Assessment of Maize Yield Response to Irrigation Scheduling in Rwanda's Semi-Arid Region

J. Javier Espinosa-Aguirre

Universidad Nacional Autónoma de México, Ciudad Universitaria, México

Inhibitors of the cytochrome P450 1A subfamily present in edible plants, possible risks and benefits derived from their consumption



SPEAKER SLOTS AVAILABLE

Yuridia Mercado-Flores

Polytechnic University of Pachuca, Mexico

Starch derived from corn seeds inhibits the activity of extracellular enzymes produced by the phytopathogenic fungus *Sporisorium reilianum*.

Herry Lloclla Gonzales

Universidad César Vallejo, Perú

Rapid and Efficient DNA Extraction Protocol from Peruvian Native Cotton (*Gossypium barbadense* L.) Lambayeque, Peru

Sandra Patricia Melo Mora

Santa Librada school, Colombia

Sowers of the natural world

Aura Maryori Cañón Vargas

Santa Librada school, Colombia

Sowers of the natural world

Angelica Casanova-Katny

Department of Environmental Sciences, Chile

Contrasting Climate Change Impacts on Mountain Ecosystems in Central and Southern Chile

Sabrina Aghazada & Koji Iwamoto

Malaysia-Japan International Institute of Technology, Malaysia

Isolation and Identification of High Biomass and Lipid Productivity *Euglena* Strain from Tropical Malaysian Environments for Enhancement of Biofuel Production

Faizal Bin Zulkarnaini

University Technology Malaysia, Malaysia

The Attributes Of Kuala Lumpur City Flash Flood In Rapid Construction City Development Planning

Joseph Gale

Hebrew University of Jerusalem, Israel

How Life and Plants evolved in a Chaotic Universe

Abdulkadiri M. Ramiya

Sokoine University of Agriculture, Tanzania

Recovery of forest land cover due to forest landscape restoration of the Bunduki gap in the Uluguru Nature Forest Reserve, Morogoro, Tanzania

Agatha A. Aloyce

Nelson Mandela African Institution of Science and Technology, Tanzania

Wheat Stem Rust in Tanzania: Navigating Climate Change Challenges for Sustainable Crop Protection

Adolph Katunzi

International Center for Tropical Agriculture, Tanzania

Assessing gender disparities in farmers' access and use of climate-smart agriculture in Southern Tanzania



SPEAKER SLOTS AVAILABLE

Salma Ghariani

University of Tunis El Manar, Tunisia

Evaluation Of Agronomic Performance Of Perennial Ryegrass And Tall Fescue Endophytically Infected By Neotyphodium Under Tunisian Conditions

Nidhal Chtourou-Ghorbel

University of Tunis El Manar, Tunisia

Genetic Diversity of Tunisian Tall Fescue Germplasm: Implications for Breeding and Conservation

Cyrine Landolsi

University of Tunis El Manar, Tunisia

Phenolic composition of Prunus persica kernels and in silico evaluation of SARS-CoV-2 Main protease inhibition

H C Shrishail

Kuvempu University, Jnana Sahyadri, India

Phytochemical Profiling And Antioxidant Evaluation Of Root Ethanol Extract Of Maesa Indica (Roxb.) Sweet

UZMA SHAKEEL

Nitte Meenakshi Institute Of Technology, India

Translation of Indic Languages Using the Transformer Model

Moumita Chatterjee

V Sivaram Research Foundation, India

Bio-Synthesized Silver Nanoparticles Using leaf extracts of Elephantopus scaber as Anti-Cancer Agent

Yamini Baghel

Mahatma Gandhi University of Horticulture & Forestry, India

Anthropogenic Disturbance and Nutrient Cycle: A Study in the Tropical Dry Deciduous Forests of India

Ankur Bhardwaj

Shri Vaishnav Vidyapeeth Vishwavidyalaya, India

Multi-Omics In-Silico Profiling of Syzygium cumini Phytochemicals as Dual Inhibitors of ApoB48 and ApoB100: A Novel Therapeutic Strategy for Atherosclerosis Prevention

Minoo Divakaran

University of Calicut, Kerala, India

Micropropagation Of High Value Crops For Sustainable Agriculture

Rajsekhar Adhikary

University of Gour Banga, India

Lipopeptide iturin C3 from endophytic Bacillus sp. effectively inhibits biofilm formation and prevents the adhesion of topical and food-borne pathogens in vitro and on biomedical devices

Amiran Khabidovich Zanilov

Kabardino-Balkarian State University named after H.M. Berbekov, Russia

The ecosystem role of soil respiration, taking into account the absorption of CO₂ by plant roots



SPEAKER SLOTS AVAILABLE

Diya

Indira Gandhi Delhi Technical University for Women, India

A Comparative Study for New-Age Attacks in a machine-learning-based Intrusion Detection System using Neural Networks

Jeya Mala

Vellore Institute of Technology, India

Integrating Quantum Artificial Intelligence (QAI) in Smart Agriculture

Surjit Bhattacharjee

St. Joseph's University, India

Identification and Expression Profiling of PP2A Subunits in *Camellia sinensis* Reveals Key Role of CsPP2A-B9 in Abiotic Stress Response

Manjusha Prattipati Geya Sai,

Osmania University, India

Microbial Diversity and Organoleptic Properties in Traditionally Fermented Pineapple Beverage Ameliorated with Blueberry or Pomegranate

Natalia Vladimirovna Vasilevskaya

Murmansk Arctic University, Russia

The polyvariance of Subarctic plants development in extreme climate

Jainendra Kumar Sharma

University of Delhi, India

Resilient Plants, Resilient Planet: Integrating Science and Governance under Climate Change

Alok Nandi

Institute of Agricultural Sciences, Siksha 'O' Anusandhan (Deemed to be University), India

Influence of plant spacing and deblossoming on agromorphological and physiological traits of zombi pea

Indira Singh

School of Environment and Sustainability, Indian Institute for Human Settlements, India

Unique Bacterial Community Characteristics of Forest Soil Compared to Grassland Soil: A Study of Miyawaki Forest vs. Grassland in Nashik, India

Ombir Singh

Forest Research Institute, India

Species Composition and Distribution Mapping of *Schleichera oleosa* in Doon valley of Uttarakhand Himalaya

Jitendra Gurjar

SKRAU, India

Investigating the singular and synergistic impact of bio-stimulants on the physico-chemical properties of soil in the rhizosphere of guava (*Psidium guajava* L.) cv. Sardar

Dinesh K Yadav

University of Allahabad, India

Proteome-wide mining asserts G protein-coupled receptor-like proteins in rice (*Oryza sativa*)

Nidhi Verma

JECRC University, India

Antibiotic resistance: a result of Microbial Biofilm association



SPEAKER SLOTS AVAILABLE

Trisha Manna

The Neotia University, India

Effect of Photosynthetically Active Radiation in Production Dynamics of Potato Under Varied Irrigation and Potash Regimes in New Alluvial Zone of West Bengal, India

Arun Dattatray Bhagat

Watershed Organisation Trust (WOTR), India

Advancing Water Security and Climate Resilience in Semi-Arid Landscapes: The Group Micro-Irrigation Model from Tigalkheda Village of India

Seema Garcha

Punjab Agricultural University, India

Targeted metabolomics of root exudates secreted by wheat grown under heat stress

Oliver Chika Ike

Near East University, Cyprus

The contribution of tourism on GDP growth and sustainable tourism development in Africa

Ramasubramanian Bhoopalan

SRM Group of Institution, India

Multispectral Imaging Approach to Disease Diagnosis and Farmer Advisory

GURDEV CHAND

Division of Plant Physiology, India

Comparative Evaluation of Root Architectural and Anatomical Traits in Wheat (*Triticum aestivum* L.): Insights into Drought Tolerance Mechanisms and Yield Performance

Jayanthi Mala B R

ICAR- Indian Institute of Horticultural Research, India

Exploring host plant resistance in *Annona* genotypes against oriental fruit fly, *Bactrocera dorsalis* (Hendel) (Diptera: Tephritidae)

Shamarao Jahagirdar

Department of Plant Pathology, India

Exploring PGPRs and green synthesized nanoformulations in mitigating diseases of soybean and productivity enhancement in India

Neelam Sangwan

Central University of Haryana, Mahendergarh, India

Biochemical, Genomic and Biotechnological Advances Driving Standardized Withanolide Production in *Ashwagnadha*, *Withania somnifera*

Sruba Saha

The Neotia University, India

Application of sensors for monitoring soil moisture, electrical conductivity, and nutrient status (N, P, K) to enhance the performance of different sesame genotypes



SPEAKER SLOTS AVAILABLE

Charu Bisht

Teerthanker Mahaveer University, India

Preparing Crop Germplasm for Future Climates: De-novo Domestication and Controlled-Environment Evaluation of Wild Relatives for Climate and Stress Resilience

Janki N Thakker

Charotar University of Science and Technology, India

Marine Actinobacterial sp. a new hope in mitigating plant biotic and abiotic stress

S.Amasmani

Avinashilingam Institute for Home Science and Higher Education for Women, India

Herbal infused medical fabrics for enhancement of health and hygiene care

Pooja Singh

Monash University, Malaysia

Microplastic-Degrading Bacteria Improve Plant Growth in Soilless Cultivation Systems

Neetu Kumari

Birsa Agricultural University, India

Understanding farmer's choice preferences for adopting paddy landraces in Jharkhand, India: Implications for on-farm conservation

Sukanya R

CHRIST (Deemed to be University), India

Green FDI and Sustainable Plant-Based Industries: Bridging Science and Policy

Shailja Tripathi

INDIRA GANDHI GOVT. P.G. COLLEGE, India

Integrative Taxonomic Revision of the Tribe Andropogoneae Dumort. (Poaceae) from Western Himalaya, India: Diversity, Micro-Morphology, Economic Potential, and Conservation Insights

Shivaraman Pandey

INDIRA GANDHI GOVT. P.G. COLLEGE, India

Taxonomic Diversity, Conservation Status, and Ethnobotanical Insights of Caesalpinioideae R.Br. (Leguminosae) in Uttar Pradesh: A Micromorphological and SEM-Based Approach

Kushal Choudhury

Bodoland University, India

Comparative Morphology and Ecological Significance of Proboscis Sensilla in Tropical Butterflies (Lepidoptera)

Karthika Rajendran

VIT School of Agricultural Innovations and Advanced Learning, VIT University, India

Breeding Okra (*Abelmoschus esculentus* (L) Moench) for Marketable Quality Traits

Lata Shukla

Pondicherry University, India

Development of molecular markers associated with nitrogen fixation capacity of mung beans



SPEAKER SLOTS AVAILABLE

Vijaya Choudhary

IILM University, India

AI-Driven Multi-Class Classification Framework for Automated Detection of Cowpea Leaf Varieties in Smart Agriculture

J.Lydia Pramitha

School of Agricultural Sciences Karunya Institute of Technology and Sciences, India

Harnessing Heritage: Characterization of Unexplored Rice Landraces from Southern India

Moumita Majumdar

People's University, India

De novo Transcriptome Assembly and EST-SSR Mining in *Gloriosa superba* for Assessment of Genetic Diversity in Ecotypes from Different Agro-Climatic Zones of India

Prassan Choudhary

ICAR- National Bureau of Agriculturally Important Microorganisms, India

Fungal-specific lectin FGB1 based LAMP assay for specific detection of *Fusarium oxysporum* f. sp. *ciceris* causing Fusarium wilt in chickpea

Suneel Subray Hegde

Division of Post Harvest Technology and Agricultural Engineering. (ICAR), India

Storage and Quality of Ozone-Fumigated 'Manik Chaman' Table Grapes: A Comparison with Sulfur Dioxide Treatment

Pragadeesh.A.R.U

Department of Nematology, Regional Research Station, India

Detangling the Nematicidal and Plant Growth-Promoting Activity of *Methylobacterium aminovorans* Against *Meloidogyne incognita* in Tomatoes

Randeep Kumar

Bihar Agricultural University, India

From In-silico Screening to Field Validation: CADD-Enabled Premix Fungicidal Formulations for *Bakanae* Disease Control in Rice

Jebasingh Tennyson

Madurai Kamaraj University, India

Novel tRNA-derived fragments mediated regulation in *Agrobacterium* Pathogenicity

Dinesh Chandra Misra

Department of Computer Science and Engineering, Dr. K. N. Modi University, India

Designing and Evaluating a Hybrid IoT Security Model with Integration of Deep Learning for the Security of Big Data

Gnanaguru Janaky JANAVI

Tamil Nadu Agricultural University, India

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Advancing Ecological Restoration through international diplomacy: Insights from India's G20 Presidency



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Patliputra University, India

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Agricultural Research Station, India

Rice and Bacillus Spp. Interaction: Opportunities for crop improvement

Aref Noman Ali Noman Alafif

Faculty of Medicine and Health Sciences, Sana'a University, Yemen

(Unveiling the Role of the AcrAB Efflux Pump in Escherichia coli: A Systematic Review and Meta-Analysis)

Hiral Aghara

P D Patel Institute of Applied Sciences, India

Silver Nanoparticles Synthesized from Ecostemma littorale 2 Exhibit Gut Tight Junction Restoration and Hepatoprotective 3 Activity via Regulation of the Inflammatory Pathway

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Possible mechanisms of nitrate transporters functions during multiple stresses

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Department of Agronomy, Faculty of Agriculture, University of Jaffna, Sri Lanka

Effect Of Different Irrigation Methods And Mulching On Growth And Yield Performance Of Two Brinjal (Solanum Melongena L) Varieties

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Effect of Sowing Methods on Growth, Yield, and Quality of Kidney Bean in the Pothohar Region

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Rapid Dereplication of Trunk Bark Constituents of Croton sylvaticus and Molecular Docking of Terpenoids from Three Congolese Croton Species

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Evaluation of growth performance and metabolic efficiency in Labeo rohita fed a sorghum-based diet supplemented with chromium chloride hexahydrate

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Chemical Profile of the Essential Oils of Three African Mistletoe Species and their Electrophysiological Responses to Male Fall Armyworm

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Cuban isolates of Nocardia spp. causal agents of false broomrape in Nicotiana spp.: identification, characteristics, disease management and more

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Strategic Management of Wastewater from Ranches and Cattle Lots and their Value-added Products

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University of Baghdad

Benefits of Sustainable Potato Agriculture Using Sprinkler Irrigation System

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National Agricultural Research Center (NARC)

Jordan Seed Bank

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Universidad Nacional José María Arguedas

Stability of Nanoparticles of Bioactive Compounds from Native Potato (*Solanum Tuberosum* Spp. Andigena) in Yogurt

Midhat Mahboob

Lincoln University NZ

Nurturing Resilience: Harnessing Synthetic Microbial Communities from Root Microbiomes to Mitigate Drought Effects on Pasture Production

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Balkh University

Effect of bulb planting date on seed yield and flowering characteristics of *Allium stipitatum* in Balkh province, Afghanistan

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OGBON Eyitayo Azaratou

International Institute of Tropical Agriculture

Optimization of crude protein estimation by Lowry method in foodstuff and comparison with Kjeldahl method

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Secondary metabolites in selected cowpea [*Vigna unguiculata* (L.) Walp.] lines mediated resistance to flower thrips (*Megalurothrips sjostedti* Trybom)

Venelin Terziev

Black Sea Institute, Bourgas, Russia

Circular economy – transition to sustainable development or a new model of economic transformation

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Developmental Biology of Plants Group, Justus-Liebig-University

Genetic and epigenetic alterations associated with somatic embryogenesis in *Argania spinosa*

Asima Ghulam rasool

Government College University Faisalabad

Two Trihelix Transcription Factors are Involved in Melatonin Assisted Stress Response in *Cajanus cajan* L

Nomali Ziphorah Ngobese

Agricultural Research Council-Grain Crops Institute

Sustainable Nutrient Management Strategies for Enhancing Potato Production: The Role of Cover Crops: A Systematic Review

Nataliya Pozhidaeva

The National landscape salvation fund (NLSF)

Depressive countryside and productive nature – the shortest sustainable development way Nataliya Pozhidaeva

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National School of Agriculture of Meknes

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**Effect of physicochemical parameters
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costatum* isolated from different sites in
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**Gendered Perceptions on Spatiotemporal
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Mekdela Amba University

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Drop in Ethiopia: Causes and Prevention
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Ayurvedic Physician & Researcher The Ayurveda
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**Phytoremediation Mechanism and
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Natural Resources at the Botswana University of
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**Longevity of seeds of eleven tree species
experimentally buried for two years in the
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Institute of Soil Chemistry and Environmental
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**Mitigation of drought stress in *Zea mays*
L. through plant growth-promoting
rhizobacteria assisted by foliar sorghum
water extract**

Kokoev T. I

Faculty of Biology of the South Ossetian State
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**Environmental safety and conservation
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Ayesha Tahir

COMSATS University Islamabad

**Integrative approaches using Lentil
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Interactions for Climate-Resilient Crop
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Department of Zoology, Government College University

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Evaluation of the productivity of maize (ATP) under different sowing dates in the Western Highlands of Cameroon

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Arba Minch University

Geospatial assessment of erosion intensity and prioritization of vulnerable areas in the Shafe catchment, South Ethiopian rift Valley

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Bahir Dar Institute of Technology

Effects of Deficit Irrigation and Mulching on the Water Footprint of Maize Production in the Koga Irrigation Scheme, Ethiopia

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COMSATS University

Turning Waste to Wellness: Potential of Banana Peel and Peduncle Powder in High-Fiber Bakery Foods

N'FEIDE Toï

Institute Togolais de Recherche Agronomique (ITRA-Togo)

Germination et séchage comme procédé traditionnel de traitement du soja pour son incorporation dans les aliments pour poisson au Togo

Ebenezer Foka Tatiekam

University of Yaoundé

A Bioformulation of oyster shell, neem seed, sida weed, and citronella extracts boosts cocoa (*Theobroma cacao* L.) seedling development and resistance to black pod disease caused by *Phytophthora megakarya*

Noor Muhammad

Central Cotton Research Institute Multan Punjab

Foliar Application of Potassium and Magnesium Regulate Biochemical Mechanisms Involved in Chlorophyll and Anthocyanin Production in upland Cotton (*Gossypium hirsutum* L.)

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International Islamic University

Book Chapter Algae Eutrophication and Climate Change



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University of Diffa (UDA)

Genetic diversity and population structure of fonio landraces millet [*Digitaria exilis* (Kippist) Stapf] using ethnolinguistic, agro-morphological and SSRs markers

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CLIMATE CHANGE AND DATE PALM CULTIVATION: CHALLENGES AND ADAPTATIONS IN PAKISTAN

Chnar Zitar Mahmud

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Safe Toys, Safer Kids: Eco-Derived Nano-Carbon Quantum Dots (CQDs) for Detection of Heavy Metal (Pb²⁺) Ion in Children's Toys

Brian Maodza

Independent Institute of Education

Labelling Scheme for Agricultural Internet of Things (AIoT) Devices

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The Islamia University of Bahawalpur

Bacillus-Based Bioinoculants as a Sustainable Strategy to Improve Wheat Productivity and Soil Fertility in Nutrient-Deficient Soils

Maryna Sherstiuk

Sumy National Agrarian University

Comprehensive Population Analysis In The System Of Studying And Conserving The Biodiversity Of Forest Ecosystems

Lalise Ararasa

Addis Ababa University

25K wheat SNP array revealed genetic diversity and population structure of durum wheat (*Triticum turgidum* subsp. durum) landraces and cultivars

Naveed Iqbal Raja

PMAS Arid Agriculture University Rawalpindi

Impact of Green-Synthesized Silver Nanoparticles (AgNPs) on Wheat Carbohydrate Metabolism and Protein Quantification under Heat Stress in Pakistan's Changing Climate

Oluyinka Omoyeni Akinlotan

Kogi State College of Education

Levels and health risk assessment of organochlorine residues in vegetables from rivers Niger-Benue confluence in Lokoja, North Central, Nigeria

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Dow College of Biotechnology, Dow University of Health Sciences

Development of in vitro regeneration protocol and Agrobacterium-mediated transient transformation system in *Furcraea foetida*



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Agriculture & Livestock Research Department of Dhofar, Ministry of Agriculture

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Willie Herman Cloete

Unit for Environmental Sciences and Management, North-West University

How to map soil organic carbon stocks at field scale in South Africa

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Federal Technical and Vocational Training Institute

Sustainable Briquette Manufacturing from Sawdust and Textile Waste: A Path to the Circular Economy and Renewable Energy

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Addis Ababa University

Phytochemical Profile, Bioactive Compounds, Antifungal Sensitivity, and Skin Irritation Evaluation of *Ziziphus spina-christi* (L.) Desf

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Green Manufacturing in Industry 5.0: Towards Sustainable Industrial Transformation

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University of Agriculture and Environmental Sciences

Synergistic Effects of Natural Fiber reinforced biopolymerized clayey subgrade: A Review and Experimental Validation

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Sustainable Synthesis of Metal-Based Nanoparticles by Using Plants for their Medical Applications

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University of Agricultural Sciences

Standardization of effective techniques of inoculating major plant pathogenic fungi causing head rot of sunflower

Khalid EL BAHJAOUY

University Sultan Moulay Slimane

Spatial mapping of soil salinity in a semiarid region using a machine learning model based on spectral indices and ground data

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West Azerbaijan Agricultural and Natural Resources Research and Education Center AREEO

Future Trends in Speed Breeding Towards Global Food Security

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Isaac Byarugaba

Makerere University

Impact of Heavy Metals on Antibiotic Resistance of Escherichia coli from Slum Wastewater in Kawempe Division, Kampala-Uganda

Suphla Gupta

Council for Scientific & Industrial Research-Indian Institute of Integrative Medicine, India

Spectral Light Control of Auxin Biosynthesis, Transport, and Downstream Responses in Glycyrrhiza glabra

Ammar Mohammed Ahmed Ali

Hajjah University

(Effect of low 2,4-D concentration on enhancing indirect embryogenesis and genetic stability in date palm (Phoenix dactylifera L.)

Ali A M Shaki

Wadi Al- shatti University

Evaluation the performance of the centre pivot irrigation systems in southwest Libya

Sobia Mushtaq

University of the Punjab

Integrated in vitro and computational approaches reveal stress gene expression and protein function in Trichoderma strains isolated from tannery contaminated soil

Omena Bernard Ojuederie

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Genomics of Underutilized Legumes: A Pathway to Improved Nutrition and Resilience

Buzuayehu Mamo Mekuria

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Prevalence and impact of Septoria tritici blotch (Septoria tritici) on bread wheat production in Ethiopia

Cephas Mawere

School of Industrial Sciences and Technology, Harare Institute of Technology

Antiproliferative activities of phytochemicals isolated from the leaves of Dolichos kilimandscharicus (Harms) ex Taub. (Fabaceae) on Jurkat and HL-60 leukemic cells

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University of Benghazi

**Comparative Floristic composition and
Life- Form Analysis of the Northern
and Southern Slopes of the AL-AKhdar
Mountainous, Libya**

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College of Agriculture and Natural Resource
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**Evaluation of Nutrient Role on Quality,
Seed Produce, and Yield Constituents of
Linseed (*Linum usitatissimum* L.) Through
Nutrient Omission, Central Highland of
Ethiopia**

Aicha Boubker

Faculty of Sciences, Mohammed V University in
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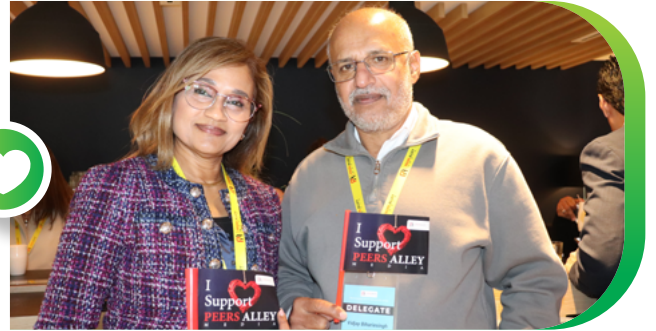
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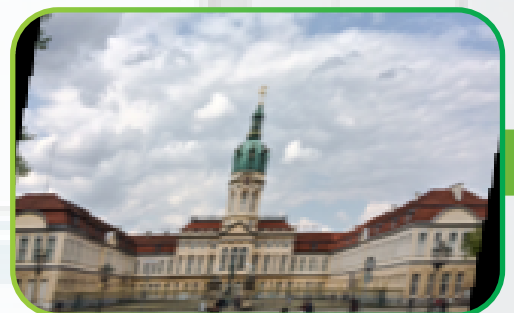
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