Joint Event

International Conference on

Agriculture Engineering

&

Plant Science

June 23-24, 2025 | Berlin, Germany

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Scisynopsis LLC
Atlanta, GA 30326
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Floor Map

Conference Hall - MOA 23

Wifi Details

Username: Moa Berlin
Password not required - Open Wi-Fi

Speaker Representations

University of Thessaly

창원대학교
Changwon National University

Chula
Chulalongkorn University

Институт по овощарство – Пловдив
Fruit Growing Institute – Plovdiv

ENEA
Italian National Agency for New Technologies, Energy and Sustainable Economic Development

Institut za voćarstvo, Čačak

University of Silesia in Katowice

FSBM
Faculté des Sciences Ben M'Sick
Université Hassan II de Casablanca

Gobierno de México

National Academy of Sciences of Ukraine
M.G. Kholodny Institute of Botany

LAMMC
Lithuanian Research Centre for Agriculture and Forestry

ATB
Leibniz-Institut für Agrartechnik und Bioökonomie

Kentucky State University

JOTACHEM

Wrocław University of Science and Technology

NDSU North Dakota State University

Sustainable Solutions Services

Università degli Studi di Ferrara

PennState

University of Mpumalanga

Universiti Teknologi Mara

Universität Hohenheim

UM6
University Mohammed VI Polytechnic

University of Abuja

Conference Programme

Day 1

23rd June

Session Chairs

Mohammad Zare, Leibniz Institute of Agricultural Engineering and Bio-Economy, Germany
Łukasz Szałata, Wroclaw University of Science and Technology, Poland

Conference Programme

Day 1, June 23, 2025	
Meeting Hall @ MOA 23	
8.00 - 8.45	Registrations
8.45 - 09.00	Introduction
Keynote Presentations	
09.00 - 09.40	Mohammad Zare, Leibniz Institute of Agricultural Engineering and Bio-Economy, Germany
Title: Integrating Climate Data and Technology for Resilient Ecosystem Restoration and Agricultural Drought Mitigation	
09.40 - 10.20	Łukasz Szałata, Wroclaw University of Science and Technology, Poland
Title: Aspects of the Rearing and Production of Pigs and Poultry" Commission Administrative Decision (EU) 2017/302 of 15 February 2017 Establishing the Best Techniques (BAT) Conclusions for the Concerted Practice of Rearing Poultry or Pigs in Accordance with Directives 2010/75/EC of the European Parliament and of the Council	
Networking and Refreshments : 10.20 - 10.40 @ MOA 21	
10.40 - 11.20	Clairmont Clementson, North Dakota State University, USA
Title: Optimizing Post-Harvest Processes to Enhance Product Quality for Processors and Consumers	
Oral Presentations	
Session Chair	Mohammad Zare, Leibniz Institute of Agricultural Engineering and Bio-Economy, Germany
Session Chair	Łukasz Szałata, Wroclaw University of Science and Technology, Poland
Sessions: Climate Smart Agriculture | Digital Agriculture | Food Safety and Quality Engineering | Principles of Water and Soil Engineering | Agricultural Sciences | Plant Genetics and Genomics | Sustainable Agriculture Practices | Plant Biotechnology | Plant Ecology | Farm Machinery and Equipment | Agronomy	
11.20 - 11.45	Stefan Gandev, Fruit Growing Institute, Bulgaria
Title: Propagation of Apple, Pear, Plum, and Sweet Cherry by the Method of Hot Callus with Two Grafting Techniques	

11.45 - 12.10	**Mateusz Jedrusik, Jotachem, Poland**
Title: From Lab to Field - Role of in vitro Plant Techniques in Building a Sustainable Future	
12.10 - 12.35	**Raminta Antanyniene, Lithuanian Research Centre for Agriculture and Forestry, Lithuania**
Title: Transcriptome Analysis of Genes Involved in Defence Response in European Plum with *Monilinia fructigena* Infection	
12.35 - 13.00	**Norrizah Jaafar Sidik, Universiti Teknologi MARA, Malaysia**
Title: Temporary Immersion Bioreactor for the Cultivation of Dendrocalamus as per Bamboo Species	
Group Photo: 13.00 - 13.10	
Lunch @ Restaurant: 13.10- 14.00 @ MOA Eat (1st Floor)	
14.00 - 14.25	**Ewa Szwajczak, University of Silesia in Katowice, Poland**
Title: Biostimulants in Agriculture – Differential Response of Cultivated and Wild Plants among Various Functional Groups to Glycine Betaine	
14.25 - 14.50	**Rokas Antanynas, Lithuanian Research Centre for Agriculture and Forestry, Lithuania**
Title: Assessing the Effect of Intercropped Grain Legume Service Crops on Winter Wheat and Soil Processes	
14.50 - 15.15	**Seun Nubi, Sustainable Solutions Services Limited, UK**
Title: Life Cycle Sustainability Assessment of Waste to Energy Systems in the Developing World: A Review	
15.15 - 15.40	**Ishaya Musa Dagwa, University of Abuja, Nigeria**
Title : Design Modification and Performance Evaluation of a Multipurpose Seed Planter for Smallholder Farmers in Sub-Saharan Africa	
Poster Presentations 15.40 - 16.00	
Poster Judge	**Marijana Pešakovic, Fruit Research Institute, Serbia**
Poster Judge	**Cheng-Wei Yu, National Taiwan University, Taiwan**

PP- 01	**Marijana Pešakovic, Fruit Research Institute, Serbia**
Title: Biocontrol Potential of *Bacillus spp*. for Sustainable Postharvest Management and Quality Enhancement in Agriculture	
PP- 02	**Tanakarn Monshupanee, Chulalongkorn University, Thailand**
Title: Mimicking Lichen Symbiosis: Erythromycin-Mediated Co-Flocculation of Microalgae and Fungi in Liquid Culture Facilitates Biomass Harvesting for CO_2 Capture and Protein Production.	
PP- 03	**Cheng-Wei Yu, National Taiwan University, Taiwan**
Title: A Multi-Scale Approach to Mitigate Agricultural Pollution in Deji Reservoir: Evaluating Low-Impact Development Strategies Using SWAT and SWMM Models	
PP- 04	**Yun Ji Park, Changwon National University, South korea**
Title: Effect of Light Intensity on Growth and Volatile Compound Content of *Valeriana fauriei* Cultivated in a Walk-in Growth Chamber	
PP- 05	**Carla Marusic, ENEA, Italy**
Title: Expression of A Recombinant Human Granzyme B (GrB) in *Nicotiana benthamiana* Plants for Tumour-Targeting Applications	
Networking & Refreshments: 16:00 - 16:30 @ MOA 21	
16.30 - 16.55	**Lisa Scramoncin, University of Ferrara, Italy**
Title: Local Adaptation and Phenotypic Plasticity Shape the Response to Climate Warming but Drought Hinders Resilience to Heat Waves of the Arctic-Alpine Herb Viscaria Alpina	
16.55 - 17.20	**Er Jeet B Chand, Ministry of Agriculture & Livestock Development, Nepal**
Title: Climate Change and Water Balance Nexus for Rice-Based Farming System in Nepal	
Video Presentation	
VP01	**Christeldah Mkhonto, University of Mpumalanga and Agricultural Research Council, South Africa**
Title: Population and Distribution of *Mimusops zeyheri* Sond in Two Agroecologies: A Comparative Study of Ehlanzeni, and Vhembe Districts of South Africa	

E- Poster Presentation	
EP001	Mohammed El Khasmi, Ben M'Sick Faculty of Sciences ,Hassan II University of Casablanca, Morocco
Title: Evaluation of the Antioxidant Effect of Black Seed Oil on Blood and Meat in Rabbits Exposed to Heat Stress	
Day-1 Concludes followed by Award Certifications	

Day 2

24th June

Session Chairs

Marcello Donini, ENEA, Italy
Łukasz Szałata, Wroclaw University of Science and Technology, Poland

Day 2 - June 24, 2025	
Meeting Hall @ MOA 23	
Keynote Presentations	
09.00 - 09.40	**Avinash M Tope, Kentucky State University, USA**
Title: Helping Small-Scale and Socially Disadvantaged Farmers with Irrigation Water Quality	
09.40 - 10.20	**Marcello Donini, ENEA, Italy**
Title: Improving the Penetration of a Tumor-Targeting Plant-produced Monoclonal Antibody in Glioblastoma Neurospheres by Electroporation	
10.20 - 11.00	**Łukasz Szałata, Wroclaw University of Science and Technology, Poland**
Title: Impact of Implementing a Deodorisation System on the Functioning of a Waste Management Plant	
Oral Presentations	
Session Chair	**Marcello Donini, ENEA, Italy**
Session Chair	**Łukasz Szałata, Wroclaw University of Science and Technology, Poland**
Sessions: Food Safety and Quality Engineering | Plant Biotechnology | Environmental Impact Agriculture | Sustainable Agriculture Practices | Principles of Water and Soil Engineering | Plant Biochemistry | Agriculture Business | Plant and Environment | Digital Agriculture | Irrigation and Drainage System | Climate Smart Agriculture | Plant and Environment | Plant Ecology	
11.00 - 11.25	**Elena Zolotareva, M.G.Kholodny Institute of Botany, Ukraine**
Title: Various Forms of Soluble Leaf Carbonic Anhydrase in C3 Plants and Their Inhibition by Heavy Metal Ions	
Networking and Refreshments: 11.25 - 11.45 @ MOA 21	
11.45 - 12.10	**Petra Andrade Hoyos, National Institute of Forestry, Agricultural and Livestock Research, Mexico**
Title: Selection of Rice Parents with Resistance to Emerging Diseases Influenced by Climate Change	

12.10 - 12.35	**Martin Bauknecht, University Hohenheim, Germany**
Title: Farmers Willingness to Contribute to Realize an Electricity Self-Sufficient Village using Agrivoltaics. Results of a Survey	
12.35 - 13.00	**Mohamed Arame, University Mohamed VI Polytechnic, Morocco**
Title: Hyperspectral Imaging for Early Detection of Chickpea Fungal Infections: A Preliminary Study on *Ascochyta blight*	
Lunch @ Restaurant: 13.00 - 14.00 @ MOA Eat (1st Floor)	
14:00 - 14:25	**Dimitris K. Papanastasiou, University of Thessaly, Greece**
Title: Agriculture Stress Under Climate Change Scenarios	
14:25 - 14:50	**Anastasia Poupkou, Academy of Athens, Greece**
Title: Adaptation Measures to Reduce the Vulnerability of the Greek Agricultural Sector in Terms of Crops Water Stress and Livestock Thermal Stress under Climate Change Scenarios	
14:50 - 15:15	**Chilipa Lorraine, University of Zambia, Zambia**
Title: Screening for Locally Available Entomopathogenic Nematodes for Potential Biological Control of Fall Armyworm, *Spodoptera frugiperda*, in Maize in Zambia	
15:15 - 15:40	**Yashoda Gaire, Tribhuvan University, Nepal**
Title: Formation of Saponin from Korean Herbal Plant using Mushrooms Enzyme	
15.40 - 16.05	**Arnab Bandyopadhyay, North Eastern Regional Institute of Science and Technology, India**
Title: Coupled Hydrologic and Hydraulic Modelling for Predicting Soil Moisture: A Case Study	
Networking and Refreshments : 16.05 - 16.30 @ MOA 21	
16.30 - 16.55	**Aditi Bhadra, North Eastern Regional Institute of Science and Technology, India**
Title: ArcRUSLE: A User-Friendly GIS Tool to Estimate Soil Erosion using Remote Sensing Images	
Day-2 Concludes followed by Certificate Certifications and Vote of Thanks	

Virutal Prsentation

Day 1 June 23, 2025, (09.30 BST)	
Oral Presentations	
09:30-09:55	**Kanwal Shazadi, The University of Queensland, Australia**
Title: Does Late Water Deficit Induce Root Growth or Senescence in Wheat?	
09:55-10:20	**Vijayan Gurumurthy Iyer, Bihar Institute of Public Administration & Rural Development (BIPARD), India**
Title: Life Cycle Assessment (LCA) Process of the Seed- Cotton (or Kapas)	
10:20-10:55	**Rajesh J. Panchal, College of Agriculture, Madhav University, Rajasthan**
Title: Loop Mediated Isothermal Amplification (LAMP)	
10:55-11:20	**Nezha Kharraz, Hungarian University of Agriculture and Life Sciences, Hungary**
Title: Integrated Logistic Growth Model for Resource Efficient Smart Agriculture	
11:20-11:45	**Terefe Taye, SNV, Ethiopia**
Title: Innovations in Dairy Extension for Low- and Middle-Income Countries: Enhancing Productivity and Adoption by Synchronizing Smart Dairy Farming Practices with Lactation Stages	
Keynote Presentations	
11:45-12:25	**Narendra VG, Manipal Academy of Higher Education Manipal, India**
Title: Soft Computing Applications in Agricultural and Biological Engineering	
12:25-13:05	**Sergio Molinari, Inst of Sustainable Plant Protection-National Council of Research (IPSP-CNR), Italy**
Title: Microbiome-Assisted Agriculture for Plant Protection	
13:05-13:45	**VP Ramani, Gujarat Natural Farming Science University, India**
Title: Natural Farming: A Sustainable Path to Agricultural Resilience	

13:45-14:25	**Yanal Alkuddsi, Lithuanian Research Centre for Agriculture and Forestry, Lithuania**
Title: A Dynamic Framework for Cross-Sectoral Impact Assessment of Modern Technologies on Sustainable Development Goals in Forestry	
14:25-15:05	**Ahmad Ali, Florida Agricultural & Mechanical University, USA**
Title: Enhancing Garlic Nutrition with Selenium and *Arbuscular mycorrhizal* Fungi (Amf): A Sustainable Approach to Biofortification in Horticultural Production	
Oral Presentations	
15:05-15:30	**Paola Leonetti, Inst. of Sustainable Plant Protection-National Council of Research (IPSP-CNR), Italy**
Title: Biotechnological Approaches in Microbiome-Assisted Plant Protection	
15:30-15:55	**Wojciech Simon Waliszewski, Colegio Bolivar, Colombia**
Title: How To Develop Interest in the Plant Sciences; Lessons from An International School. The Agricultural Plant Science Elective and Bolivar Garden at Colegio Bolivar, Cali, Colombia	
15:55-16:20	**Yana Mizrahi, Volcani Institute, Israel**
Title: Climate Resilience in Olive Cultivars: Effects of Elevated Temperatures on Productivity and Oil Quality	
16:20-16:45	**Dave White, Climate Change Truth Inc. USA**
Title: The Essential Role of Photosynthesis in Defining Net Zero Carbon Dioxide Emissions for Equilibrium Calculations	
16.45 - 17.10	**Shirin Ghatrehsamani, Penn State University, USA**
Title: Application of Digital Twing and Virtual Reality to Enhance Safety in Agricultural Equipment	

Speaker Biographies

Keynote Presenters

Mohammad Zare, Leibniz Institute of Agricultural Engineering and Bio-Economy, Germany

Mohammad Zare is currently working as a Scientist at the Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Potsdam, Germany. He has been working on a lot of subjects, basically covering the whole field of hydrology, climate change and application of data science in precision agriculture. He got his MSc. in water resources engineering and having completed his PhD in Civil Engineering at the University of Kassel, Germany in July 2017. he has worked in both academia and private R&D over the past years: Postdoc fellow at ATB, Potsdam (Won European Commission's ERA-NET scheme in the framework of ICT Agri Food, 2017-2019); R&D Scientist (Won The industrial fellowship from Luxembourg National Research Fund, 2020-2022); University lecturer (Statistics and Data Science, IU International University of Applied Sciences, Berlin, 2021-2022). Moreover, he has been active in editorial duties and publishing i.e. he acting as a keynote speaker of international conferences, scientific advisory (Postdoc, PhD and MSc. students), reviewing of journals and writing publications in the form of a book, peer-reviewed papers, proceedings, book chapters and scientific project reports.

Łukasz Szałata, Wroclaw University of Science and Technology, Poland

Łukasz Szałata, has been a faculty member at Wrocław University of Science and Technology since 2010 and serves as President of the Wrocław Branch of the Scientific Society of Organization and Management since 2022. An expert in engineering, environmental protection, and economic management, he specializes in environmental impact assessments, integrated IPPC permits, renewable energy consulting, and Odor control technologies. He is also a court mediator in environmental protection and active in advisory roles on environmental issues.

Dr. Szałata co-authored the Ministry of the Environment's 2016 list of Odor-causing chemicals and has published several monographs on sustainable development and environmental protection. He has contributed to European Commission projects on green cities and climate resilience and coordinates postgraduate environmental studies. Since 2011, he has led the EKO-BIEGŁY® Association, focusing on environmental protection and eco-development projects. He has authored over 75 publications and multiple scientific monographs in his field.

Clairmont Clementson, North Dakota State University, USA

Clairmont Clementson is an Assistant Professor in the Department of Agricultural and Biosystems Engineering at North Dakota State University. He holds a Ph.D. in Agricultural Engineering from Purdue University, an M.S. in Agricultural Engineering from the University of Illinois, and a B.S. in Mechanical Engineering from the University of Guyana, Turkeyen, Guyana. With a focus on granular material handling, particle technology, bioprocessing, and the storage and processing of biological materials, Dr. Clementson's research aims to address key challenges in agricultural engineering. His teaching responsibilities make up 40% of his role, while research constitutes 60%. In addition to his academic responsibilities, Dr. Clementson is a licensed Professional Engineer (PE) and a Project Management Professional (PMP). He is an active member of the American Society of Agricultural and Biological Engineers (ASABE), contributing to the advancement of agricultural engineering through both practice and research.

Avinash M Tope, Kentucky State University, USA

Avinash M. Tope is an Associate Professor in the Division of Food and Animal Science at Kentucky State University, located in Frankfort, Kentucky. His academic work focuses on sustainable agriculture, food systems, and animal science, with the aim of advancing agricultural practices and improving food security. Dr. Tope has made significant contributions to these fields through his research, which has been published in over 12 articles in international journals. His work has received numerous citations and is highly regarded for its practical applications and impact on the field. Tope is also actively involved in academic service, serving as an author, editor, and reviewer for several prestigious journals. He has a strong commitment to mentoring students and guiding future leaders in agricultural sciences. In addition to his teaching and research roles, Tope engages in outreach activities, helping to promote sustainable farming practices and enhance community awareness of agricultural issues. With a deep passion for sustainability and food systems, Dr. Tope continues to influence both academic and practical aspects of agriculture, contributing to the development of more environmentally responsible and efficient agricultural practices.

Marcello Donini, ENEA, Italy

Marcello Donini is Senior Research Scientist at Biotechnology Laboratory ENEA Casaccia Research Center ENEA, (Rome, Italy), he is conducting research on Antibody engineering, expression of tumour targeting recombinant proteins in plants (Molecular Farming), and Proteomics. During these years he has published several research papers on the characterization of plant produced tumour-targeting and anti-viral antibodies focusing on two different issues related to antibody expression such as proteolysis and glycosylation. In this field we devised novel expression systems based on glyco-engineered plants and root cultures that allowed to accumulate a glyco-optimized versions of mAbs with a very homogeneous glycan profile lacking fucose residues with the aim of potentiating biological activity by enhancing both antibody dependent cell cytotoxicity (ADCC) and complement dependent cytotoxicity (CDC).

Oral Presenters

Stefan Gandev, Fruit Growing Institute, Bulgaria

Stefan Gandev is a professor, in the field of fruit growing. He is an author of 108 publications with and co-author of 4 monographs. He has also developed a technology for walnut propagation, and is a co-breeder of two new walnut cultivars. Professor Stefan Gandev is a Chairman of the Scientific Council for Fruit Growing and Viticulture at the Agricultural Academy, a member of the editorial board of the journals 'Plant Sciences', 'Journal of Mountain Agriculture on the Balkans' and in 'Acta Horticulturae' issues 1139 and 1259. He has been a convener of an international symposium and has been a moderator and member of the scientific committee of a number of other international symposia. Prof. Stefan Gandev is a member of the 'Plant Genetic Resources' and 'Pome and Stone Fruits' commissions of the International Society for Horticultural Science. Prof. Gandev is a director of the Institute of Fruit Growing and a member of the Advisory Council on Fruit Growing at the Minister of Agriculture in the Republic of Bulgaria.

Arnab Bandyopadhyay, North Eastern Regional Institute of Science and Technology, India

Arnab Bandyopadhyay, born on September 12, 1977, is a distinguished academic in water resources development and management. He completed his B.Tech. in Agricultural Engineering from BCKV in 2000, earning top honors including the Vice Chancellor's Gold Medal. He received his MTech. from IIT Kharagpur in 2003, where he was the department topper and a DAAD fellow. He completed his Ph.D. from the same institute in 2008 with a High Value Fellowship. Arnab began his career as Scientist 'B' at the National Institute of Hydrology (2005–2010), and has been with NERIST since 2010, progressing from Assistant Professor to Professor by 2018. His research focuses on climate change impacts, geo- and hydro-informatics, and agricultural engineering. He has published extensively and mentored numerous postgraduate and doctoral students, contributing significantly to academia and research.

Raminta Antanyniene, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

Raminta Antanyniene has bachelor's and master's degrees in Life Sciences, Biology and Genetics, and Molecular Biology and Biotechnology programs, respectively. Currently, she is a PhD student in the Agronomy program at the Department of Orchard Plant Genetics and Biotechnology, Institute of Horticulture, Lithuanian Research Centre for Agriculture and Forestry (LAMMC). Topics degrees she aimed to research the main fungal disease of orchard plants - brown rot blossom blight caused by Monilinia spp. pathogens, by analyzing host plants and fungi at molecular and genetic levels. She has molecular biology and genetics expertise, focusing mainly on genotyping species. Moreover, she is interested in the applicability of next-generation sequencing technologies such as Oxford Nanopore Technology's platform. She is active in project preparation and is open to international collaboration.

Norrizah Jaafar Sidik, University Technology MARA, Malaysia

Norrizah Jaafar Sidik has her expertise in plant biotechnology, plant physiology, biological activities and phytochemicals. Her research focused on plant tissue culture, bioreactor, and elicitation, enhancing the secondary metabolites in vitro of various plants species.

Aditi Bhadra, North Eastern Regional Institute of Science and Technology, India

Aditi Bhadra, born on November 12, 1977, is a renowned academic in soil and water engineering. She completed her B.Tech. in Agricultural Engineering from BCKV in 2000, followed by an MTech. and Ph.D. from IIT Kharagpur in 2003 and 2007, respectively. Dr. Bhadra joined NERIST as an Assistant Professor in 2006, became Associate Professor in 2015, and has been serving as a professor since 2018. Her research focuses on climate change impacts on water resources, hydrological modelling, geo-informatics, and cryosphere mapping. With numerous publications and active roles in professional societies, she has also mentored several postgraduate and doctoral students.

Rokas Antanynas, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

Rokas Antanynas has a bachelor's in Agribusiness technologies, studying in Kaunas college. He has a master's degree in life sciences studying agroecosystems at Vytautas Magnus University. He has 5 years of professional experience in Lithuanian agricultural advisory service in consulting farms. Currently, he is a PhD student in the Agronomy program at the Department of Plant Nutrition and Agroecology, Institute of Agriculture, Lithuanian Research Centre for Agriculture and Forestry (LAMMC). His PhD topic is "Management of agroecological niches by incorporating cover and catch crops". He is working with intercrops by analyzing different legumes impact for soil properties in agroecology conditions. He is actively involved in international project consortiums and carries out activities within the LIFE and HORIZON EUROPE programe projects, focusing on sustainable water management, environmental conservation, and the integration of innovative practices in agriculture and farming systems.

Seun Nubi, Sustainable Solutions Services Limited, UK

Seun Nubi is an independent researcher and consultant and is the founder and CEO of Sustainable Solutions Services Limited, a research and consultancy startup company that focuses on providing innovative and sustainable solutions to industries, governments, international organizations and educational institutions using a life cycle approach. He holds a PhD in Environment and Sustainability from the Centre of Environment and Sustainability, University of Surrey with an Engineering Physics and a Chemical/ Processing Engineering degree background. His research and Consultancy Interests include Sustainability, Waste Management, Environment Management and Energy systems.

Ishaya Musa Dagwa, University of Abuja, Nigeria

Ishaya Musa Dagwa, Professor of Manufacturing Engineering obtained his B. Eng (Mechanical Engineering) 1990 from the University of Maiduguri and M. Eng and Ph.D. Degrees in Manufacturing Engineering from the University of Benin in 1995 and 2003/2004 respectively. He started his working career as Assistant Lecturer in September, 1991 at the Federal Polytechnic, Mubi Adamawa state and rose through the ranks to Principal Lectureship position in 2006. Thereafter, he transferred his services to the University of Abuja in April, 2007 where he held several positions and earned his promotion to the rank of a professor in 2016. He has served as External Examiner to several universities and has published more than 55 scientific articles in local and international journals. He is a registered Mechanical Engineer with COREN and Fellow, N.I.Prod.E among others. He has won several research grants. Also, he is an Awardee of the Royal Academy of Engineering, UK.

Lisa Scramoncin, University of Ferrara, Italy

Lisa is a PhD student in Environmental Health Sciences at the University of Ferrara, Italy. Now in her third year of study, her research focuses on the ecology and conservation of habitats and endangered plant species. Her work spans multiple aspects of plant ecology, with a particular emphasis on wild orchids. Lisa investigates the ecological niches, population dynamics, and community composition of these species, as well as the adaptive mechanisms plants use in response to environmental change. In addition, she is exploring the urban evolution of wild orchids, aiming to understand how genetic variation responds to urban development in anthropic areas.

Er Jeet B Chand, Ministry of Agriculture & Livestock Development, Nepal

Jeet B Chand is a Senior Agricultural Engineer at the Ministry of Agriculture & Livestock Development, working under the Prime Minister Agriculture Modernization Project. He holds a PhD and Master's in Water Resources Engineering & Management from the University of South Australia, and a Bachelor's in Agricultural Engineering from Tribhuvan University, Nepal.

Mateusz Jedrusik, Jotachem, Poland

Mateusz Jędrusik works at the intersection of plant biotechnology and applied research, with a focus on in vitro techniques such as tissue culture and micropropagation. Currently engaged in the development and support of plant-based agricultural products at Jotachem, he combines lab-based skills with field-level insight, aiming to improve the reliability, quality, and efficiency of plant production systems. His interests include low-cost propagation methods, stress-tolerant plant material, and practical uses of biotechnology in small- and mid-scale agricultural contexts. Through his experience in both scientific and commercial settings, he has gained a broad perspective on how technical solutions are translated into usable outcomes. He's particularly interested in the challenges of scale, consistency, and integration of lab innovations into real-world growing environments. With a background in plant science and hands-on experience in product development and technical support, he offers a practical view on how in vitro tools can contribute to more sustainable and efficient crop production. His approach is shaped by curiosity, experimentation, and a strong respect for the complexities of plant systems.

Elena Zolotareva, M.G. Kholodny Institute of Botany, Ukraine

Elena Zolotareva, serves as the Head of the Phytochemistry Department at the M.G. Kholodny Institute of Botany, Ukrainian Academy of Sciences, in Kyiv. Her research interests include plant biochemistry, bioenergetics, photosynthesis, and the enzymatic systems of plants for decarbonization. In 2008, she obtained her DSc degree in the field of plant biochemistry from the Karazin National University in Kharkiv, Ukraine. The author possesses considerable expertise in the domain of microalgae research, with a particular focus on the impact of carbon nutrition on the biochemical composition and the synthesis of valuable metabolites. In recent work, her research group has examined the potential of plant enzymes to enhance the capture of atmospheric carbon dioxide. This process aims to create a sustainable, secure, and consistent method for carbon sequestration. Presently, she is employed at the Kholodny Institute of Botany as the deputy director.

Ewa Szwajczak, University of Silesia in Katowice, Poland

Ewa Szwajczak completed her bachelor's and master's degrees in biotechnology (2019) and plant biotechnology (2021) at the University of Silesia in Katowice. Working in the Department of Plant Physiology, she studied plant growth, physiological and stress responses of tomato plants after exposure to non-steroidal anti-inflammatory drugs. Subsequently, she continued her research, collaborating with the Institute of Chemistry, on the application of 1,3-dioxolanes in biological sciences and reducing the environmental load of herbicides. She is currently expanding the use of 1,3-dioxolanes in a PhD program at the University of Silesia in Katowice, Poland, which aims to promote plant species in agroecosystems using betaine and dioxolanes. The research interest aims go beyond simply elucidating the response of wild plants to agroecosystem interventions; they are equally involved in strengthening crop and wild species against environmental stressors, promoting biological diversity, in turn ensuring sustained crop productivity.

Petra Andrade Hoyos, National Institute of Forestry, Agricultural and Livestock Research, Mexico

Petra Andrade Hoyos specializes in selecting disease-resistant plants, focusing on horizontal or global resistance to key local pathogens. She has a strong interest in isolating and identifying virulent pathogens, and she collaborates with native Trichoderma endophytes for biological disease control. Her background in research and experience teaching at universities, along with working with producers across various regions of Mexico, has shaped her holistic understanding of agro systems management.

Martin Bauknecht, University Hohenheim, Germany

Martin Bauknecht is a PhD student at the University Hohenheim, Germany. His major field is the realization of an electricity self-sufficient village using agrivoltaics.

Dimitris K. Papanastasiou, University of Thessaly, Greece

Dimitris K. Papanastasiou is an Assistant Professor. His expertise is in the fields of atmospheric pollution, meteorology and air emissions, in urban and rural environment. He holds a BSc in Physics, a MSc in Environmental Physics, and a PhD in Atmospheric Pollution and Meteorology. His research interests include monitoring and analysis of atmospheric pollution levels, meteorological parameters, comfort levels of humans and animals, air quality and climatic conditions in agricultural buildings and emissions of atmospheric pollutants and greenhouse gases, environmental impact assessment, environmental education. He has significant experience in monitoring and assessing environmental parameters in urban and rural environment, including installation and use of equipment, data analysis, and evaluation of models' results. He also has many years of experience in teaching, research and administration in academic and research institutions. Currently he is the principal investigator of the AGRO FUTURE CLIMATE STRESS project.

Anastasia Poupkou, Academy of Athens, Greece

Anastasia Poupkou is a Physicist. She has an MSc in Environmental Physics and a PhD in Atmospheric Physics. Her research interests are related to the study of the chemical composition of the atmosphere and the climate change. She has a many-year experience in the fields of atmospheric modelling and evaluation, atmospheric emission sources apportionment and process analysis, and anthropogenic and natural emissions estimation. She has 55 publications in international peer- reviewed journals and 58 publications in proceedings of international peer-reviewed conferences. She has participated in more than 40 competitive research projects. Currently she is the principal investigator for the Academy of Athens of the AGRO FUTURE CLIMATE STRESS project.

Mohamed Arame, University Mohamed VI polytechnic, Morocco

Mohamed Arame has his expertise in plant and microbial biotechnology and a passion for advancing sustainable agricultural practices. His research focuses on plant growth-promoting rhizobacteria, biological nitrogen fixation, and biofertilizers, contributing to improved soil microbiology and crop resilience. His open and applied biotechnological approach creates new pathways for enhancing agricultural productivity. He has built this expertise after years of experience in research, innovation, and leadership within renowned scientific institutions, including the Moroccan Foundation for Advanced Research Science and Innovation (MAScIR) and Mohammed VI Polytechnic University.

Chilipa Lorraine, University of Zambia, Zambia

Lorraine N. K. Chilipa is a Senior Agricultural Researcher Officer under Zambia Agriculture Research Institute, whom through experience and quest to finding lasting cost effective, efficient and appropriate technologies to curb food insecurity, is working tirelessly with farmers and other stakeholders. Currently pursuing a PhD in Entomology at the University of Zambia, holds a Master of Science in Plant Breeding and Seed Systems obtained from the University of Zambia and a Bachelor of Science Degree from the University of Zambia. She is a hardworking and self-motivated researcher. Over the years, she has acquired knowledge in agricultural research in plant pests and diseases, potato management constraints, multiple race Inoculation as an option in breeding for resistance to C. lindemuthianum in common beans, efficacy of selected pesticides against the fall armyworm infestation in small holder maize production, effect of intercropping maize with legumes, oilseed crops and cucurbits, and perimeter cropping on fall armyworm infestation. The researcher is currently working on the potential of entomopathogenic nematodes to manage fall armyworm in maize in Zambia.

Yashoda Gaire, Tribhuvan University, Nepal

Yashoda Gaire is a dedicated educator and researcher from Buddhabhumi-01, Kapilbastu, Nepal. She currently works as a Secondary Teacher at Shree Bhanu Secondary School in Manang, a government-run institution, and also serves as a Co-Researcher with Counsel and Counsel and Tribhuvan University. Academically, she holds Master's degrees in both Sociology and English from the Central Department of Tribhuvan University, Kirtipur, and earned her Bachelor's degrees in Rural Development and English from Butwal Multiple Campus. Her commitment to education and interdisciplinary research reflects a deep passion for social progress and academic excellence. Born with a physical disability a shortened right leg Yashoda has overcome numerous social and professional challenges, particularly in a society where stigma around disability remains widespread. Despite these barriers, she has made significant contributions to various research projects, including curriculum evaluation at the basic level, a study on Early Childhood Education and Development (ECED) standards, and a scientific investigation into the formation of saponin from a Korean herbal plant using mushroom enzymes. Through her work, she not only advances knowledge but also champions inclusivity and resilience.

Marijana Pešakovic, Fruit Research Institute, Serbia

Marijana Pešaković is a Principal Research Fellow and Assistant Director at the Fruit Research Institute in Čačak, Serbia, where she has worked since 2007. She is the founder and Head of the Institute's Laboratory for Microbiological Testing, where she has pioneered research in the application of biofertilizers and plant-associated microbial communities in fruit production systems. Her work focuses on engineering innovative microbiological and ecological solutions for sustainable fruit farming, including the reduction of synthetic inputs and the enhancement of soil and plant health. She has contributed significantly to the advancement of microbial-based nutrient management and the development of biotechnological strategies for optimizing phytochemical composition in fruit crops. Pešaković has authored and co-authored over 200 scientific publications, including peer- reviewed journal articles, book chapters, and technical papers. She is a co-author of a verified technical solution based on vermicompost-based microbial formulations and has contributed to several internationally recognized scientific monographs. She has mentored PhD students and served as editor for national monographs. She has coordinated and participated in numerous national and international R&D projects, including bilateral collaborations and programs funded by the Ministry of Science of Serbia. Notably, she is a participant in the European COST Action CA22142 "ROOT-BENEFIT", which focuses on root-associated microorganisms for sustainable agriculture. Through her interdisciplinary and practice-oriented research, Dr. Pešaković actively contributes to cultivating innovation in agricultural engineering, promoting eco-friendly solutions for the future of sustainable fruit production.

Tanakarn Monshupanee, Chulalongkorn University, Thailand

Tanakarn Monshupanee's research focuses on using photosynthetic algae to convert CO2 and solar energy into proteins, bioplastics and bioenergy. His work investigates the production of proteins, bioenergy (polyglucan and lipids) and the biopolymer PHB within algal cells. He also employs metabolic engineering to enhance bioproduct synthesis. Additionally, his lab is developing a system for auto-co-flocculation between algae and fungi for CO2 capture, with the resulting biomass targeted for use as animal feed.

Cheng-Wei Yu, National Taiwan University, Taiwan

Cheng-Wei Yu is an Assistant Professor in the Department of Bioenvironmental Systems Engineering at National Taiwan University (NTU), where he has been teaching since August 2022. His research focuses on river hydraulics, particularly at the full-catchment scale, utilizing Saint-Venant simulations for river network modeling. He is also interested in the application of river hydraulics in bioenvironmental engineering. Yu completed his Ph.D. at the University of Texas at Austin in the School of Architecture, where he studied from August 2014 to August 2020. Afterward, he held a postdoctoral position at the same university from August 2020 to May 2022 before joining NTU. Yu's academic contributions are supported by his extensive publications and research projects, and his work can be found in various academic databases like Scopus and ORCID.

Yun Ji Park, Changwon National University, South Korea

Yun Ji Park is a plant scientist specializing in the biosynthesis and functional enhancement of bioactive compounds derived from medicinal and functional crops Her research focuses on unraveling the molecular mechanisms regulating secondary metabolites production, particularly through the characterization of key genes involved in biosynthetic pathways. She employs high-throughput RNA-Seq and transcriptomic profiling to identify gene expression patterns associated with metabolite accumulation and plant physiological responses. She also contributes to the development of standardized raw material cultivation strategies for smart farming systems, offering sustainable alternative to conventional agricultural practices. Her work in plant tissue culture includes optimizing media conditions to improve plant regeneration efficiency and establishing transformation protocols for genetic improvement. Furthermore, she is involved in the development of functional materials using natural products, with emphasis on the identification and quantification of pharmacologically active secondary metabolites. Her multidisciplinary approach integrates molecular biology, bioinformatics, and plant biotechnology to support the innovation of plant-based materials for health and industry applications.

Carla Marusic, ENEA, Italy

Carla Marusic is Senior Scientist at the ENEA-Casaccia Biotechnology Division, her research area of expertise, since 1999, is focused mainly in "Plant Molecular Farming". Her research focuses on the use of plants as biofactories for producing pharmaceutical compounds, including antibody for immunotherapeutic purposes and antigens. Notably, she has contributed to the development of plant-based production platforms for neutralizing antibodies and antigens. This innovative approach offers a rapid and cost-effective alternative to traditional cell-based production systems, potentially enhancing the response to pandemic emergencies. Marusic's expertise encompasses nanobiotechnology and plant biotechnology. She has published several research papers on the use of plant viruses as vectors of neutralizing epitopes derived from human viruses (such as HIV-1) or as nanoparticles for drug delivery. She is currently involved in projects aimed at the production of recombinant antigens and antibodies in plants (Molecular Farming) for human and veterinary applications.

Video Presenter

Christeldah Mkhonto, University of Mpumalanga and Agricultural Research Council, South Africa

Christeldah Mkhonto is a PhD in Science candidate, an ethnobotanist, and a researcher passionate about bridging Indigenous knowledge with scientific work. She holds a Master of Science degree where she focused on the antifungal efficacy of 4 selected medicinal plants against Rhizoctonia solani, a major root rot pathogen affecting staple crops. Her research aimed to develop environmentally friendly, plant-based fungicides as sustainable alternatives to synthetic chemicals. With expertise in crop protection, plant phytochemistry, ethnobotany and plant ecology, Christeldah is dedicated to combating the effects of climate change through the integration of Indigenous knowledge, particularly the use of Indigenous plants, into scientific research. She is also actively involved in transdisciplinary research through the Transdisciplinary International Learning Laboratory (TILL), collaborating with experts from various fields to develop sustainable solutions for environmental and social challenges. Beyond her scientific contributions, Christeldah is a committed human rights advocate. She actively promotes sexual and reproductive health rights for adolescent girls and young women and is a strong proponent of education advocacy, empowering young women to pursue and remain in school as a tool for challenging harmful societal norms and driving change.

El Khasmi Mohammed, Ben M'Sick Faculty of Sciences, Hassan II University of Casablanca, Morocco

El Khasmi Mohammed is a professor in the Department of Biology at the Faculty of Sciences Ben M'Sik of Hassan II University of Casablanca in Morocco. He obtained his doctorate on phospho-calcic (MP) and bone (MO) metabolism during lactation and postnatal development in dromedaries and has more than 30 years of experience in research, teaching and community services. His main interests are metabolism, physiological and endocrine regulations, and the impact of stress and oxidative stress induced par the pre-slaughter handling of camels on their homeostasis and meat quality. He has published numerous articles (100) in renowned journals and presented the results of his research (200) in national and international conferences and workshops. He has supervised a large number of master and doctoral students. He was Director of Physiopathology and Molecular Genetics during 2017-2024, and now he is a member of Laboratory of Ecology and Environment and the International Society for Camelid Research and Development.

Narendra VG, Manipal Academy of Higher Education Manipal, India

Narendra VG, a Professor at Manipal Institute of Technology, Manipal Academy of Higher Education, India, brings a wealth of experience to the field. With 25 years in academia and a decade in research, his expertise lies in food quality evaluation using image processing and soft computing techniques. His scholarly contributions extend globally. Dr. Narendra VG has presented research papers across countries like Japan, Malaysia, New Zeeland, Vietnam, The United Kingdom, China, Indonesia, Turkey and Heraklion Greece. He boasts 25 peer-reviewed journal publications and 35 conference papers. Currently, he guided one Ph.D. student and supervises six others. His research interests revolve around Computer Vision and Soft Computing for Grading and Sorting Agricultural and Food products. Notably, he leads a funded project of cost Rs. 80.41 Lakhs and titled as 'Indian Language to Indian Language Machine Translation' supported by the Ministry of Electronics and Information Technology, INDIA.

Sergio Molinari, Inst. of Sustainable Plant Protection-National Council of Research (IPSP-CNR), Italy

Sergio Molinari is a senior scientist at CNR and leader of the Biochemistry Lab. of IPSP division in Bari, Italy. He spent a couple of years abroad for researches in Molecular Biology at the Dept. of Nematology, UCR, Riverside, CA-USA and Plant Biochemistry at the Dept. of Pure and Applied Biology, Imperial College, London (UK). His present main research effort is to extend practices within the microbiome-assisted agriculture The main topic is the study of the effect of microbe commercial formulations and green composts on plant health and tolerance/resistance to soil-borne pests, such as parasitic nematodes, and mining insects. Resistance is studied through the detection of plant immune system activation; in particular, He investigate the genetic, epigenetic and metabolic mechanisms acting in resistance of plants against parasites. Plant response to biotic stresses is studied in relation with treatment doses and application procedures, plant age, water stress, soil and environmental conditions, etc.

He was involved in European Networks, National and European Projects dealing with plant protection and aid to agro-food SMEs in the field of selection, characterization and conservation of plant genomes, and of prevention of the diffusion of economically important and quarantine pests. He published tens of papers in important International Journals (Orcid ID 0000-0002-2472-1289; WOS ID B-7754-2015)

VP Ramani, Gujarat Natural Farming Science University, India

VP Ramani is a Resource Person at the Gujarat Natural Farming Science University, Halol, India, the world's first and only one university on natural farming science. He is former Principal of the College of Agriculture, Anand Agricultural University, Vaso, India. He has around 34 years of experience in agriculture related research/teaching/extension activities. He worked on various research projects like soil fertility management, use of sewage and sludge in agriculture, heavy metal pollution in soils and plants, organic farming, nano-fertilizers, natural farming, and soil-plant-animal-human health continuum and developed 45 technologies for good quality higher crop production. To create awareness among the farmers, researchers, students, teachers, policymakers etc., he disseminated developed technologies through various media including the television Krishi darshan programe, All India Radio, Webinar – Seminar, Short clips, farmers' meetings, print media etc. As an individual or as a team member, he received 22 awards or medals on various national and international platforms.

Yanal Alkuddsi, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

Yanal Alkuddsi is a Ph.D. (Agri) scholar at Department of Forest Resources, Economics and Policy, Lithuanian Forest Research Institute, Lithuanian Research Centre for Agriculture and Forestry, Kaunas, Lithuania (Bioethanol production, Environmental and Economic Assessment, Life Cycle Assessment). PhD (Agri), MSc (Agri) Department of Genetics and Plant Breeding, University of Agricultural Sciences, Dharwad, Bangalore Karnataka, India (Biotechnology, Genetics and Plant Breeding, Cotton Breeding, Molecular Marker). Academic Lecturer in the Bioiformatics Master Programe, Syrian Virtual University, Damascus, Syria (Advanced plant cell biotechnology). She is previously a Principal Research Scientist at Department of Biotechnology, General Commission for Scientific Agricultural Research, Damascus, Syria (Plant Breeding, Biotechnology, Nanotechnology, Plant Molecular Genetics, Genetic Engineering) and Academic Staff at Department of Drugs - Faculty of Pharmacy – Al Rasheed International University for Science and Technology, Damascus, Syria (Plant Biology, Animal Biology and Molecular Biology). She was an academic staff at Department of Biotechnology, Faculty of Applied Science, Al Kalamoon University, Rural of Damascus (Plant Biology, Animal Biology and Biotechnology).

Ahmad Ali, Florida Agricultural & Mechanical University, USA

Ahmad Ali currently serves as a Research Associate at the College of Agriculture and Food Sciences, Florida Agricultural and Mechanical University (FAMU), where he collaborates on the Climate-Smart Carbon Sequestration Project. He holds a strong academic background with a Ph.D. in Horticulture–Vegetable Sciences. His research primarily focuses on the eco-physiological and sustainable development of vegetable production, with particular emphasis on soil microbiome structures and their roles in plant growth promotion, nutrient cycling, soil health, and the suppression of Fusarium and other soil-borne pathogens. Optimizing soil health, enhancing microbial interactions, and improving crop productivity in sustainable farming systems are also my research interest. Dr. Ali has also worked as a postdoctoral research fellow at Nanjing Normal University and the University of Florida. Dr. Ali has contributed extensively to the scientific community, publishing over 25 peer-reviewed articles and presenting at international conferences. His work bridges the gap between soil health, crop resilience, and climate-smart agricultural practices, making significant contributions to improving global food security.

Kanwal Shazadi, The University of Queensland, Australia

Kanwal Shazadi graduated from The University of Queensland, Australia, in 2024. Her research focuses on evaluating novel phenotyping methods to identify genotypic variation in both developing and mature wheat root systems. She is particularly passionate about enhancing drought tolerance in crops by investigating deep root development at later growth stages, especially in wheat. Her work provides valuable insights for improving crop models through refined root system modelling, advancing phenotyping techniques, and supporting the selection of cultivars better adapted to drought-prone environments.

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

Vijayan Gurumurthy Iyer has his expertise in environmental health impact assessment (EHIA) process and life cycle assessment process passion in improving the environmental health and wellbeing. He has built environmental impact and climate change sustainability model after years of experience in research, evaluation, teaching and administration both in industry and research and education institutions. He has more than forty years' research experience. He was awarded Ph.D. (Environmental Science and Engineering) from Indian School of Mines, Dhanbad during the year 2003 as well post-doctoral elaborator from WSEAS, Greece in 2010. He was awarded D.Sc., LL.D. and DL honorary doctorates. He has published more than 450 research publications and 5000 research citations in journals and conference proceedings including abstract books and Hirsch index 60. He has published more than 100 eBooks and 600 citation index databases. He is serving as a faculty in Bihar Institute of Public Administration & Rural Development, Gaya, Bihar, India.

Rajesh J Panchal, College of Agriculture, Madhav University, Rajasthan

Rajesh Panchal is currently serving as an Assistant Professor in the Department of Genetics and Plant Breeding at the College of Agriculture, Madhav University, Rajasthan. With a strong academic and research background, he has made notable contributions in the field of plant genetics, particularly focusing on Rice heterosis during his M.Sc. and genetic parameters of double Bt Cotton during his Ph.D. He has been recognized for his academic excellence and research work with several prestigious awards, including multiple Gold Medals during his undergraduate studies, the C. T. Patel Gold Medal for quality research on American double Bt Cotton, and the Young Professional Award. Additionally, he was a recipient of the SHODH scholarship scheme by the Government of Gujarat. Panchal has an impressive record of academic contributions, having published 10 research papers, 1 book, 5 book chapters, 1 edited book, and 23 farmer-oriented articles. He has also actively participated in over 50 seminars, webinars, international conferences, trainings, and symposiums, reflecting his commitment to continuous learning and knowledge dissemination in the field of agricultural sciences.

Nezha Kharraz, Hungarian University of Agriculture and Life Sciences, Hungary

Nezha Kharraz is currently pursuing her Ph.D. at Szent István University, Gödöllő, Hungary, in the Department of Mechanics and Machine Structures. Her doctoral research focuses on the monitoring of plant growth in indoor environments using phenotyping techniques and advanced data engineering methods, including data flow optimization, Internet of Things (IoT) integration, and artificial intelligence algorithms. She develops cloud-based systems and mathematical models to enhance the analysis and prediction of growth conditions. Nezha holds a master's degree in mechanical engineering (2021) with honors and a Bachelor's degree in Mechanical Engineering obtained prior to her master's. Her research interests span mechanical properties, engineering design, and computational processes, with expertise in data-driven optimization, IoT systems, artificial intelligence applications, machine learning-based monitoring, and IoT system integration. She bridges the fields of mechanics and data engineering to enhance precision agriculture technologies. Nezha is fluent in French, Arabic, English, and has basics in German, enabling effective collaboration on diverse international projects.

Terefe Taye, SNV, Ethiopia

Terefe Taye have over 13 years of experience in the livestock and agricultural sector. He has worked in development, research, and academia across various institutions, including the Ministry of Agriculture (MoA), research institutes, TVET colleges, and international NGOs. He holds a Master of Science (MSc) degree in Dairy Production Systems from Wageningen University and Research Centre, which has provided me with advanced knowledge in sustainable dairy farming and animal production systems. Throughout my career, he has taken on diverse roles that bridge research, teaching, and practical development, helping to improve livestock productivity and extension services. Currently, he is working for SNV, the Netherlands Development Organization, as the Lead Advisor for Extension Services on the Building Rural Income through Inclusive Dairy Business Growth in Ethiopia Plus (BRIDGE +) project. In this role, he provides strategic guidance to enhance livestock extension programs. Additionally, he manages the digital platform, which connects Ethiopian livestock professionals to facilitate collaboration and knowledge sharing across the sector. He is committed to advancing sustainable livestock development and empowering farmers through capacity building and innovative extension approaches.

Paola Leonetti, Inst. of Sustainable Plant Protection-National Council of Research (IPSP-CNR), Italy

Leonetti obtained the Degree in Biological Sciences in 1994, University of Bari, 110/110 cum Laude and in 2000 the Specialization Degree in Biochemistry and Clinical Chemistry, University of Bari, 50/50 cum Laude. She was studying from biochemical and molecular point of view phenomenon of mitochondrial and nuclear mechanisms of oxidative stress. In 2000 she was also in the German Cancer Research Center (DKFZ), Heidelberg, Germany for one year working on DHEA hormone and their effect on cellular aging mechanisms. Since 2001, Dr. Leonetti is a researcher at the Italian National Research Council (CNR) in the Département of Biology, Agricultural and Food Science (DisBA) at the Institute for Sustainable Plant Protection (IPSP). In 2024 Dr. Leonetti became Senior researcher. From 2006 to 2008 she was involved in the "Bioinformatic consortium for the manual annotation of the genome of Meloidogyne incognita" and participated to the Training Course "Tools for the expert manual annotation of M. incognita genome" at INRA Sophia Antipolis, France. The output was published on Nature Biotechnology journal "Genome sequence of the metazoan plant-parasitic nematode Meloidogyne incognita" and the studies on plant- Phyto parasitic nematode interactions were started. She has collaborations and projects founded by Italian (Ministero degli Affari Esteri, Direzione Generale per la Cooperazione allo sviluppo, Programma Sviluppo Rurale FEASR Reg. CE), and foreign university and research centers (Poland, Germany, Egypt, Brazil). Many publications were done working on biocontrol strategies in the sustainable management of main Phyto nematode pests with for example either fungi or SAR inductors, on systems biology with genome-wide approaches to unveil the molecular players involved in the pre-germinative metabolism of seeds, on epigenetic trait in polyploidization mechanism in crops.

Wojciech Simon Waliszewski, Colegio Bolivar, Colombia

Wojciech Simon Waliszewski is currently the 10th grade chemistry and 11th/12th grade agricultural plant sciences teacher at Colegio Bolivar, where he developed the Bolivar Garden. He is a passionate educator who believes in the importance of experiential and vocational learning, applying his knowledge of agroforestry to the teaching of his elective class. Together with his students he has developed a high-quality coffee brand – Don Simón – which is produced on site at Colegio Bolivar and sold to the local community, profits of which fund the garden. In 2022 the garden was awarded the Tri-Association International Community Award. He has spent over 20 years in secondary education in Zimbabwe, the UK and Colombia. He has a master's degree in International Education & Supervision from Western Carolina University, a master's degree in tropical environmental forestry from the University of Wales, where he investigated the local agroecological knowledge of the understory forest herb Thaumatococcus daniellii (Benn.) Benth and a PhD from Bangor University, where variation in T. daniellii and its suitability as an intercrop with Hevea Brasiliense's were determined. Wojciech enjoys spending time at his farm in the Andes Mountains close to Cali where he conserves three hectares of cloud forest and produces excellent coffee.

Yana Mizrahi, Volcani Institute, Israel

Yana Mizrahi is a PhD student at the Robert H. Smith Faculty of Agriculture, Food and Environment at the Hebrew University of Jerusalem, conducting her research in the Laboratory of Olives at the Volcani Institute. Her work focuses on the effects of high temperatures and growth conditions on pollen germination and development in olives. She is also exploring the impact of elevated temperatures on the olive productive cycle and oil quality, particularly in the context of climate change's effects on agricultural productivity. The aim of her research is to identify climate-resilient olive varieties and to develop sustainable strategies for maintaining high-quality olive oil production. Yana completed her master's and bachelor's degree at RUDN University, where she concentrated on the introduction of nontraditional plants. Her research includes studies on model plants and fruit trees from warm regions, with contributions to several scientific publications in agricultural sciences. She remains dedicated to advancing knowledge in plant development and resilience to environmental stress.

Dave White, Climate Change Truth Inc. USA

Dave White currently works at the Research, Climate Change Truth Inc. Their current project is 'Bring down atmospheric CO2 quickly'. I have proved and presented at the 2018 Climate Change Conference in NYC finding show we need to plant 100 billion trees and shrubs worldwide and stop all non-sustainable deforestation we can bring down Atmospheric CO2 to 330 ppm by 2031. 29 more Climate Change Conferences have invited me to present the correct solution. I am a chemical engineer with graduate studies in statistics. To put up a graph like it is cause and effect without doing correct statistical analysis is pure deception.

Shirin Ghatrehsamani, Penn State University, USA

Shirin Ghatrehsamani is an Assistant Professor in the Department of Agricultural and Biological Engineering at Penn State University, where she has served since January 2023. Her expertise lies in Machinery Design, Mechatronics, Robotics, and Precision Agriculture, with a research focus on UAV applications, Remote Sensing, Wireless Sensor Networks, and Artificial Intelligence in agricultural systems. She holds a Ph.D. in Agricultural Engineering from the University of Florida (2019), along with M.Sc. degrees in Mechanical Engineering (2018) and Agricultural Engineering (2010), and a B.Sc. in Mechanical Engineering of Agricultural Machinery from Shahrekord University, Iran (2007). Dr. Ghatrehsamani brings extensive academic and research experience from roles at Montana State University, the University of Missouri, the University of Florida, and the University of Malaya. She has taught courses in Combustion Engineering, Precision Agriculture Technology, and Mechatronics Design. She is an active member of ASABE, ISPA, and ASME.

Note:

Vote of Thanks

We sincerely thank all our esteemed committee members, session chairs, keynote speakers, plenary speakers, and oral and poster presenters for their insightful contributions and for sharing their valuable expertise.

Your participation has truly enriched the success of the Conference.

Grateful For Your Attendance and for Being Part of our Vibrant Conference

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