

### 5<sup>th</sup> Annual Congress on PLANT SCIENCE & BIO SECURITY

#### June 23-24, 2025 at Prague, Czech Republic

Venue: Hotel Duo Teplická 492/19, 19000 Prague 9, Czech Republic

Website URL: https://acpsb.com/ | Email: peter\_griffin@acpsb.com



## Day 1 June 23, 2025



#### **Scientific Program**

#### **5th Annual Congress on Plant Science and Biosecurity**

Jun 23 - 24, 2025 at Prague, Czech Republic (Hybrid Event)

Day -1 (June 23, 2025)

08:30-09:30 | Registrations

09:30-09:45 | Opening Ceremony & Moderator Speech

Keynote Forum	
	Title: Genomics and phenomics among and within extant populations of the
09:45-10:15	trifecta Chrysanthemum arcticum L. species complex
	Neil O. Anderson, University of Minnesota, USA
10:15-10:45	Title: The role of drought on the evolution of woodiness in flowering plants
	<b>Frederic Lens,</b> Naturalis Biodiversity Center, The Netherlands
10:45-11:15	Epigenetic Modulation by Natural Metabolites: Enhancing Plant Resistance
	Marta Berrocal-Lobo, Universidad Politécnica de Madrid, Spain
	11:15-11:30   Group Photo & Refreshment Break
	Technical Session I
	Title: ABA-receptor agonist iSB09 decreases soil water consumption and
11:30-11:50	increases tomato CO2 assimilation and water use efficiency under drought
	stress.
	Andrés A Borges, IPNA-CSIC, Spain
	Title: Comparative analysis of soil degradation and soil structure in croplands
	affected by erosion and soil dehydration treated with a biological soil crust
11:50-12:10	forming algal culture
	Jozsef Kutasi, Albitech Biotechnology Ltd, Hungary
12:10-12:30	Title: Cation transport for homeostasis and stress adaptation in plants
12.10-12.50	Nobuyuki Uozumi, Tohoku University, Japan
12.20 12.50	Title: Cross-talks between phytochromes and FIN219/JAR1 in regulating the
12:30-12:50	photomorphogenic development of Arabidopsis seedlings Hsu-Liang Hsieh, National Taiwan University, Taiwan
12:50-13:10	Title: New insights into legume diseases and the diversity of their causal
	agents Biruta Bankina, Latvia university of life sciences and technologies, Latvia
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13:10-14:10   Lunch Break	
Technical Session I	
14:10-14:30	Title: Recent Progress in Understanding the Multifaceted Roles of RACK1 in Plant Growth and Stress Responses
	Jiansheng liang, Southern University of Science and Technology, China
	Title: A supplement that can be effective in coping with UV-B stress in plants
14:30-14:50	Aysegul Akpinar, Bursa Uludag University, Turkey
14:50-15:10	Title: Monitoring climate change in alpine regions through the evolutionaryecology of organisms adapted to cool environmentsKoji Tojo, Shinshu University, Japan
15:10-15:30	Title: Multi-dimensional crop improvement to improve livestock productivity     Padmakumar Varijakshapanicker, International Livestock Research Institute, Nepal
	Title: Microbes and microbial strategies in carcinogenic polycyclic aromatic
15:30-15:50	hydrocarbons remediation: a systematic review
	Sandipan Banerjee, Czech University of Life Sciences Prague, Czech Republic
	Title: Machine Learning Model for cost effective Vegetation Indexes Prediction
15:50-16:10	Luciano Ortenzi, Università degli Studi della Tuscia, Italy
	16:10-16:30   Refreshment Break
16:30-16:50	Title: Monitoring the distribution of banana bunchy top virus in South Africa:a country-wide surveySinethemba Patience Fanelwe Ximba, Agricultural Research Council, Mbombela, South Africa
16:50-17:10	Title: Building up the mechanical stability of a plant orgqanismTatyana Gorshkova, Kazan Institute of Biochemistry and Biophysics, Russia
17:10-17:30	Slot Available
Day 1 Concludes	



### DAY 2

## **June 24, 2025**



	Keynote Forum
09:40-10:10	Title: Enabling crop Improvement for Nitrogen Use Efficiency in rice: From phenotype to candidate genes/processes and the role of G-protein signalling
	Nandula Raghuram, Guru Gobind Singh Indraprastha University, India
	Title: Minimizing operator exposure: field data analysis of three closed
10:10-10:40	transfer systems for pesticide mixing and loading   Juan Sasturain, BASF SE, Germany
	Juan Sasturani, DAST SL, Germany
10:40-11:10	Slot Available
	11:10-11:30   Refreshment Break
	Technical Session III
11:30-11:50	Title: Stigma secreted microRNA in pear and its potential role in fire blight control
	Yehoram Leshem, Israel Migal Galilee research center, Israel
11:50-12:10	Title: Spatiotemporal Insights into Plant Defense: Integrating Untargeted Metabolomics and Mass Spectral Imaging to Unveil Eucalyptus Responses to Gonipterus platensis Herbivory
	Andy J. Perez, Universidad de Concepcion, Chile
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12:10-12:30	Title: CFD-Based dynamic analysis of the flow evolution of multiple pesticide droplets impacting onto a vibrating leaf-surface
	Lin Zhu, Anhui Agricultural University, China
12:30-12:50	Title: Cell wall dynamics in the parasitic plant (Striga) and rice pathosystem
	Sylvia Mutinda, University of Toronto, Canada
12:50-13:10	Slot Available
12.50 13.10	
	13:10-14:00   Lunch Break
	Technical Session IV
	Title: Recent Progress in Understanding the Multifaceted Roles of RACK1 in
14:00-14:20	Title: Recent Progress in Understanding the Multifaceted Roles of RACK1 in Plant Growth and Stress Responses
14:00-14:20	
14:00-14:20	Plant Growth and Stress Responses   Amir Sharon, Tel Aviv University, Israel
14:00-14:20	Plant Growth and Stress Responses   Amir Sharon, Tel Aviv University, Israel   Title: Fungal microbiomes associated with soil, root and nodules of food-
14:00-14:20	Plant Growth and Stress Responses   Amir Sharon, Tel Aviv University, Israel   Title: Fungal microbiomes associated with soil, root and nodules of food-quality winter peas in the Pacific Northwest, USA
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14:40-15:00	Title: Improving Fusarium Wilt Race 2 Resistance and Brix Content in Watermelon Using Genomic Selection
	Anju Biswas, USDA-ARS, United States
15:00-15:20	Title: The nature of biogenic Si and its potential role in Si supply in agriculture
	Richard John Haynes, The University of Queensland, Australia
15:20-15:40	Slot Available
19.20 19.40	
15:40-16:00	Slot Available
	16:00-16:20   Refreshment Break
	Title: Regulation pathway of photosynthetic glyceraldehyde 3-phosphate
16:20-16:40	dehydrogenase
	Simona Fermani, Unversity of Bologna, Italy
16 40 17 00	Title: Fusarium Head blight resistance breeding in Triticum aestivum by
16:40-17:00	means of Gamma irradiation mutation breeding
	Eben Von Well, ARC-Small Grain, South Africa
	Slot Available
17:00-17:20	
Panel Discussion & Closing Ceremony	
This program is purely tentative and subject to changes. We are still accepting abstracts. To book your slot, contact: peter_griffin@acpsb.com	



# Virtual Program June 24, CET



5th	5th Annual Congress on Plant Science and Biosecurity	
Virtual Program		
	Day-02 (June 24, 2025)	
	Time Zone: Central European Summer Time (CEST)	
09:00-09:20	Title: Increasing sugarcane productivity and environmental improvement in acid sulphate soils: a win win system	
	Robert Graham Quirk, Australian Cane Farmers Association, Australia	
09:20-09:40	Title: Phylogeography and chromosome number variation in Micranthes nelsoniana and related species (Saxifragaceae) in Northeast Asia	
	Tomoko Fukuda, Mie University, Japan	
09:40-10:00	Title: Molecular phenology reveals the influence of climate change on dormancy break timing in 'Somei-yoshino' flowering cherry tree	
	Atsuko Miyawaki-Kuwakado, Kyushu University, Japan	
10:00-10:20	Title: Arabidopsis AGB1 participates in salinity response through bZIP17- mediated unfolded protein response	
	Yueh Cho, Institute of Plant and Microbial Biology, Academia Sinica, Taiwan	
10:20-10:40	Title: Suppressing wheat sucrose phosphate synthase 1-B protects wheat against stripe rust	
	Jin-Ying Gou, China Agricultural University, China	
10:40-11:00	Title: Prediction of plant complex traits via integration of multi-omics data	
	Peipei Wang, Kunpeng Institute of Modern Agriculture at Foshan, China	
11:00-11:20	Title: BEACH domain-containing protein SPIRRIG facilitates microtubule cytoskeleton- associated trichome morphogenesis in Arabidopsis	
	Lijun An, Northwest A&F University, China	
	Title: Special phenomena and mechanism in Lilium breeding	
11:20-11:40	Shujun Zhou, Jiangxi Agricultural University, China	
11:40-12:00	Title: Diversifying crop rotation increases food production, reduces net greenhouse gas emissions and improves soil health	
	Xiaolin Yang, China Agricultural University, China	
12:00-12:20	Title: Growth, Structural Adaptations, and Physiological Fluctuations of Alternanthera tenella Colla. Towards Cadmium Stress	



College, India   12:20-12:40 Title: Pulp colour in guava: Trait genetics and molecular background MADHUBALA THAKRE, ICAR-IARI, New Delhi, India   12:40-13:00 Title: Screening for drought-tolerant mungbean root nodule bacteria with multiple plant growth promoting traits in Aridisol Hemanta Kumar Mondal, Parul university, India   13:00-13:20 Title: Evaluation of genetic variability and trait correlations among landraces and traditional varieties of small millets from the hilly regions of Tamil Nadu Lydia Pramitha, Karunya Institute of Technology and Sciences, Coimbatore, India   13:20-13:40 Title: Comparative Uptake, Translocation, and Accumulation of Chlorpyrifos in Two Varieties of Withania somnifera Under Hydroponic Conditions Deepika Yadav, CSIR-Central Institute of Medicinal and Aromatic Plants, India   13:40-14:00 Title: The N-region sequence context impacts the chloroplast import efficiency of multi-TMD protein Namitha Nayak, Birla Institute of Technology and Science, India   14:00-14:20 TBA Ch Bhanupriya, IIT Kharagpur, India   14:20-14:40 Title: First description and conservation implications of a unique stand of the Caucasian wingnut in Lapankuri (Georgia) Nino Davitashvili, Ilia State University, Georgia   14:40-15:00 Title: The impact of ATBC 2019 in Madagascar scientific community Hajanirina Rakotomanana, University of Antananarivo, Madagascar   15:00-15:20 Title: Environmental DNA as a tool for improving plant pathogen surveillance in forest systems Kirsty McLaughlin, Agri-Food and Biosciences Institute, UK		Resmi Mohankumar Saraladevi, Sree Neelakanta Government Sanskrit
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15:20-15:50 risks to health		Kirsty McLaughlin, Agri-Food and Biosciences Institute, UK
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<b>David Ian Givens,</b> University of Reading, UK		risks to health
		David Ian Givens, University of Reading, UK



15:50-16:20	Keynote: Biocentrism, Forests and Climate Change
15.50-10.20	Robin Attfield, Cardiff University, UK
16:20-16:50	Keynote: Selecting for short-strawed winter wheat varieties with less Fusarium head blight in the presence of two reduced height (Rht) genes
	Thomas Miedaner, University of Hohenheim, Germany
16:50-17:10	Title: Critical periods for waterlogging effects on yield and grain components in sunflower (Helianthus annuus), soybean (Glycine max) and Sorghum (Sorghum bicolor): a comparative study
	<b>Miqueas Sandoval,</b> National Institute of Agricultural Technology (INTA), Argentina
17:10-17:30	Title: Outdoor and indoor detection of plant ultrasonic emissions with a contactless microphone
	Luca Bonisoli, University of Modena and Reggio Emilia, Italy
	Title: Bioenergy feedstock production on marginal lands using sewage sludge
17:30-17:50	<b>Yaroslava B. Mosiichuk,</b> Institute of Water Problems and Land Reclamation of NAAS, Ukraine
17:50-18:10	Title: Cicer pinnatififdum- A wild reservoir for introgression of valuable economic traits and disease resistance into cultivated chickpea
	Sonia Salaria, Clemson University, United states
18:10-18:30	Title: Cortical cell size regulates root metabolic cost
	Jagdeep Sidhu, South Dakota State University, United states
	Title: Effects of combining soil-applied insecticide and Bt corn for
18:30-18:50	integrated pest management and resistance management of western corn rootworm (Coleoptera: Chrysomelidae)
	John B McCulloch, University of Georgia, United states
18:50-19:10	Title: Evolution history and the importance of genomic diversity facing climate change. The case of Agave marmorata Roezl., an agave used for mezcal production in México
	Karen Yazmin Ruiz Mondragon, National Autonomous University of Mexico, Mexico
	Slot Available
19:10-19:30	SIUL AVAIIADIE



19:30-19:50	Slot Available
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19:50-20:10	
20-10-20:30	Slot Available
End of the session	
This program is purely tentative and subject to changes. We are still accepting abstracts	