

6th International Plant Proteomics Organization Conference
May 15 to 18, 2025
Banff Springs Hotel, Banff, AB, Canada

AGENDA

| Thursday, May 15, 2025 | |
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| 13:00 | REGISTRATION OPENS - Riverview Lounge All Posters are to be mounted – New Brunswick Room All Sessions will take place in Alberta Room |
| 16:00 | WELCOME Conference Chairs: Jennifer Geddes-McAlister, R. Glen Uhrig |
| 16:15 – 18:30 | <u>Session 1 – Proteomics for Climate Resiliency</u> Chair: Devang Mehta, KU Leuven Co-Chair: Boyan Liu, University of Guelph |
| 16:15 | KEYNOTE Harvey Millar , The University of Western Australia, AUS <i>Proteomics for Climate Resiliency: Developing and adapting proteomic data for wider decision making in a changing world</i> |
| 16:45 | Christoph Rampitsch , Agriculture and Agrifood Canada, CAN <i>TBA</i> |
| 17:05 | Devang Mehta , KU Leuven <i>Closing gaps in plant chronobiology: from genome to proteome and from molecules to future geographies.</i> |
| 17:25 | Natalia Bykova , Agriculture and Agrifood Canada, CAN <i>Crosstalk between the cellular redox state, NO, ROS, and phytohormones integrates major physiological processes upon abiotic stress impact on seed dormancy control in wheat</i> |
| 17:40 | Lauren Grubb , University of Alberta, CAN <i>Defining a role for REVEILLE genes in the plant response to drought and salt stress using quantitative proteomics</i> |
| 17:55 | Myah Crosby , University of Guelph, CAN <i>Starch Phosphorylases Regulated by Glutathionylation</i> |
| 18:10 | Break |
| 18:30 – 21:00 | WELCOME RECEPTION <i>New Brunswick Room with Exhibitors & Posters</i> |

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| Friday, May 16, 2025 | |
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| 07:30 | LATE REGISTRATION – Riverview Lounge BREAKFAST New Brunswick Room with Exhibits & Posters |
| 08:30 – 10:15 | <u>Session 2 – Proteomics in Unconventional Plants</u> Chair: Ting-Ying Wu, Academia Sinica Co-Chair: Qiaomu Li, University of Alberta |
| 08:30 | KEYNOTE Michelle Colgrave , Edith Cowan University, AUS <i>Novel foods, the science behind evaluating health attributes, allergenicity and food safety</i> |
| 09:00 | Ting-Ying Wu , Academia Sinica, TW TBA |
| 09:20 | Ramesh Katam , Florida A & M University, USA <i>Root proteomics and protein interaction studies showed shift in biosynthetic pathways to different salt stress levels in Pistachio</i> |
| 09:35 | Niels Maywald , University of Guelph CAN <i>Next-Generation Intercropping: Synergistic Nitrogen Fixation for Sustainable Agriculture</i> |
| 10:00 | Haleema Tariq , McGill University <i>Paenibacillus polymyxa alters the metabolic and proteomic profile of Cannabis sativa</i> |
| 10:15-10:45 | COFFEE BREAK New Brunswick Room with Exhibits & Posters |
| 10:45 – 12:30 | <u>Session 3 – Advancing Proteomics Technologies in Plants</u> Chair: R. Glen Uhrig, University of Alberta Co-Chair: Mohana Talasila, University of Alberta |
| 10:45 | KEYNOTE Aleksandra Skirycz , Michigan State University, USA <i>From interaction to function, what can we learn about metabolites from knowing their protein partners?</i> |
| 11:15 | Sixue Chen , The University of Mississippi, USA <i>Systems biology of C3 to CAM Transition, toward Improving Crop WUE</i> |
| 11:35 | Bryan Hau , The University of Western Australia, AUS <i>Identification and characterisation of the molecular drivers of malting performance in Hordeum vulgare</i> |
| 11:50 | Vibha Srivastava , University of Arkansas, Division of Agriculture, USA <i>Phosphoproteomics for unraveling novel targets of SnRK1 kinase in rice</i> |
| 12:05 | Monique van Schie , Wageningen University, NL <i>Location, location, location: exploration of the subcellular proteome of plants</i> |
| 12:25– 13:45 | LUNCH BREAK 12:30 TO 13:30 SEMINAR – THERMO FISHER PRESENTATION Alberta Room |

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| Friday, May 16, 2025, cont. | |
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| 13:45 – 15:30 | Session 4 - Artificial Intelligence in Plant Proteomics Chair: Jennifer Geddes-McAlister, University of Guelph Co-Chair: Lauren Grubb, University of Alberta |
| 13:45 | KEYNOTE Sachin Rustgi , Clemson University, USA TBA |
| 14:15 | Marie Brunet , University of Sherbrooke, CAN <i>Learning translation: deep-learning guided proteomics in plants</i> |
| 14:35 | Mathieu Lavallée-Adam , University of Ottawa, CAN TBA |
| 14:55 | Zhiyong Wang , Carnegie Institution for Science, USA <i>Crosstalk between phosphorylation and O-glycosylation regulates metabolism, growth, and immunity</i> |
| 15:10 | TBA |
| 15:25 – 16:00 | COFFEE BREAK New Brunswick Room with Exhibits & Posters |
| 16:00 | LIGHTNING TALKS |
| | - Poster 111 - Sujani Rathnayake, University of Guelph |
| | - Poster 104 – Utpal Bose, Edith Cowan University |
| | - Poster 105 – Mohana Talasila, University of Alberta |
| | - Poster 100 – Qiaomu Li, University of Alberta |
| | - Poster 109 – Boyan Liu, University of Guelph |
| | - Poster - TBA |
| | - Poster 121 – Genc Haljiti, Bavarian Centre for Biomolecular Mass Spectrometry |
| | - Poster 122 – Francis Bourassa, University of Sherbrooke |
| 16:30 | POSTER SESSION Presenters of even-numbered posters should be at their posters between 16:00 – 17:30 and presenters of odd-numbered posters should be at their posters between 17:00 – 18:30 pm |
| 19:00 | FREE TIME |

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| Saturday, May 17, 2025 | |
|------------------------|--|
| 07:30 – 08:30 | BREAKFAST New Brunswick Room with Exhibits & Posters |
| 08:30 – 10:30 | Session 5 – Agricultural Proteomics Chair: Justin Walley, Iowa State University Co-Chair Jiaxi Lu, University of Guelph |
| 08:30 | KEYNOTE Georgia Tanou , Hellenic Agricultural Organization – DIMRA, GRC <i>Deciphering the Molecular Basis of Cold Stress Response in Kiwifruit: A Multi-Omics Perspective</i> |
| 09:00 | Olivia Wilkins , University of Manitoba, CAN <i>A single nucleus atlas of development altering stress</i> |
| 09:20 | Justin Walley , Iowa State University, USA <i>TBA</i> |
| 09:40 | Nasim Alijanimamaghani , University of Guelph <i>Crosstalk between phosphorylation and O-glycosylation regulates metabolism, growth, and immunity</i> |
| 09:55 | Guido Giordano , Technical University of Munich <i>Progress on the Crop Proteome Atlas (Year 3): a focus on barley germination and malting</i> |
| 10:10 | Hui Cao , The University of Western Australia, AUS <i>Dissecting 70 years of wheat breeding through proteome-wide association study</i> |
| 10:25– 11:00 | COFFEE BREAK New Brunswick Room, with Exhibits & Posters |
| 11:00 | ECR Session (All Welcome) Chair: Guido Giordano Co-Chair: TBD |
| 12:00 – 13:00 | LUNCH BREAK Alberta Room |
| 13:15 | INPPO GENERAL MEETING (All Welcome) Host: Christoph Rampitsch |
| 14:30 | FREE TIME / ACTIVITIES |
| 18:30 | RECEPTION Mt. Stephen Hall |
| 19:00 | DINNER & DANCING Mt. Stephen Hall |

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| Sunday, May 18, 2025 | |
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| 07:30 – 08:30 | BREAKFAST New Brunswick Room with Exhibits & Posters |
| 08:30 – 10:15 | <u>Session 6 - The Modified Plant Proteome</u> Chair: Christoph Rampitsch, Agriculture and Agrifood Canada Co-Chair: Sujani Rathnayake, University of Guelph |
| 08:30 | KEYNOTE Ive de Smet , VIB-UGENT, Centre for Plant Systems Biology, BE <i>Leveraging temperature-mediated phosphoproteomes to identify conserved signaling modules in plants</i> |
| 09:00 | Pitter Huesgen , University of Freiburg, DE <i>Tracing protease activities in plant immunity</i> |
| 09:20 | Juergen Eirich , University of Muenster, DE <i>Posttranslational Modifications and Their Role in Plant Acclimation to Light</i> |
| 09:40 | Tagnon Missihoun , University of Québec Trois-Rivières, CAN <i>Abscisic acid and Aldehyde dehydrogenases influence protein carbonylation in Arabidopsis thaliana</i> |
| 09:55 | Mark Roosjen , Wageningen University, NL <i>Pushing the limits - fast signaling in plants</i> |
| 10:10 | COFFEE BREAK New Brunswick Room, with Exhibitors & Posters |
| 10:45 – 12:30 | <u>Session 7 – Plant Interactomes</u> Chair: Shouling Xu, Carnegie Institution at Stanford Co-Chair: Niels Maywald, University of Guelph |
| 10:45 | KEYNOTE Pengcheng Wang , Institute of Advanced Biotechnology, CN <i>Chloroplast phosphonetworks in Arabidopsis</i> |
| 11:15 | Shouling Xu , Carnegie Institution at Stanford, USA <i>Mapping Architecture of Protein complexes in Arabidopsis using XL-MS</i> |
| 11:35 | Kishor Ingole , University of Cambridge, UK <i>Unravelling the Cell-type specific SUMOylome of Arabidopsis roots by mass spectrometry (MS)</i> |
| 11:55 | Kyle Bender , University of Zurich, CH <i>Quantitative proteomics of plant receptor kinase signaling</i> |
| 12:10 | Linfei Guo , Wageningen University, NL <i>Proteomic analysis of growth-stress interaction</i> |
| 12:25 | WRAP-UP & CLOSING Conference Chairs: Jennifer Geddes-McAlister, R. Glen Uhrig |