

6th International Plant Proteomics Organization Conference

May 15 to 18, 2025

Banff Springs Hotel, Banff, AB, Canada

AGENDA

Thursday, May 15, 2025	
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	Session 1 – Proteomics for Climate Resiliency 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>Peptidomics in Rusted Wheat. Endogenous rust peptides identified from short open reading frames by de novo sequencing</i>
17:05	Devang Mehta , KU Leuven, BEL <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>
18:15 – 20:00	WELCOME RECEPTION New Brunswick Room with Exhibitors & Posters

Friday, May 16, 2025	
07:30	LATE REGISTRATION – Riverview Lounge BREAKFAST - New Brunswick Room with Exhibits & Posters
08:30 – 10:00	Session 2 - Artificial Intelligence in Plant Proteomics Chair: Jennifer Geddes-McAlister, University of Guelph Co-Chair: Lauren Grubb, University of Alberta
08:30	KEYNOTE Sachin Rustgi , Clemson University, USA <i>Screening Wheat and Peanut Genotypes with Reduced Immunogenicity Using Protein Profiling</i>
09:00	Marie Brunet , University of Sherbrooke, CAN <i>Learning translation: deep-learning guided proteomics in plants</i>
09:20	Mathieu Lavallée-Adam , University of Ottawa, CAN <i>Enhancing mass spectrometry-based proteomics data acquisition using artificial intelligence</i>
09:40	Zhiyong Wang , Carnegie Institution for Science, USA <i>Crosstalk between phosphorylation and O-glycosylation regulates metabolism, growth, and immunity</i>
10:00-10:30	COFFEE BREAK New Brunswick Room with Exhibits & Posters
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10:30 – 12:30	Session 3 – Proteomics in Unconventional Plants Chair: Ting-Ying Wu, Academia Sinica Co-Chair: Qiaomu Li, University of Alberta
10:30	KEYNOTE Michelle Colgrave , Edith Cowan University, AUS <i>Novel foods, the science behind evaluating health attributes, allergenicity and food safety</i>
11:00	Ting-Ying Wu , Academia Sinica, TW <i>The Landscape of Protein Phosphorylation Dynamics under Heat Stress in Marchantia</i>
11:20	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>
11:35	Niels Maywald , University of Guelph, CAN <i>Next-Generation Intercropping: Synergistic Nitrogen Fixation for Sustainable Agriculture</i>
11:50	Haleema Tariq , McGill University, CAN <i>Paenibacillus polymyxa alters the metabolic and proteomic profile of Cannabis sativa</i>
12:05	Jacqueline Thomson , University of Guelph <i>Mechanistic analysis of tall fescue (Shedonorus arundinaceus) and its fungal endophyte, Epichloë coenophiala</i>

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Friday, May 16, 2025, cont.	
12:30– 13:45	THERMO FISHER SPONSORED LUNCH SEMINAR – Alberta Room 12:30 TO 13:30 Craig P. Dufresne - Thermo Fisher Scientific R. Glen Uhrig - University of Alberta
13:45 – 15:30	Session 4 – Advancing Proteomics Technologies in Plants Chair: R. Glen Uhrig, University of Alberta Co-Chair: Mohana Talasila, University of Alberta
13:45	KEYNOTE Aleksandra Skirycz , Michigan State University, USA <i>From interaction to function, what can we learn about metabolites from knowing their protein partners?</i>
14:15	Sixue Chen , The University of Mississippi, USA <i>Systems biology of C3 to CAM Transition, toward Improving Crop WUE</i>
14:35	Bryan Hau , The University of Western Australia, AUS <i>Identification and characterisation of the molecular drivers of malting performance in <i>Hordeum vulgare</i></i>
14:50	Vibha Srivastava , University of Arkansas, Division of Agriculture, USA <i>Phosphoproteomics for unraveling novel targets of SnRK1 kinase in rice</i>
15:05	Monique van Schie , Wageningen University, NL <i>Location, location, location: exploration of the subcellular proteome of plants</i>
15:30 – 16:00	COFFEE BREAK New Brunswick Room with Exhibits & Posters <div style="float: right; border: 1px solid black; padding: 5px; text-align: center;">Sponsored By </div>
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 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 16:30 – 17:30 and presenters of odd-numbered posters should be at their posters between 17:30 – 18:30 pm
18:30	FREE TIME

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Saturday, May 17, 2025	
07:30 – 09:00	BREAKFAST & InPPO General Meeting (All Welcome) Host: Chrisoph Rampitsch Alberta Room
09:00 – 10:30	Session 5 – Agricultural Proteomics (Session I) Chair: Justin Walley, Iowa State University Co-Chair Jiaxi Lu, University of Guelph
09:00	KEYNOTE Georgia Tanou , Hellenic Agricultural Organization – DIMRA, GRC <i>Deciphering the Molecular Basis of Cold Stress Response in Kiwifruit: A Multi-Omics Perspective</i>
09:30	Olivia Wilkins , University of Manitoba, CAN <i>A single nucleus atlas of development altering stress</i>
09:50	Nasim Alijanimamaghani , University of Guelph, CAN <i>Impact of 15ADON and 15ADON/3NX Fusarium graminearum Chemotypes on Wheat and Corn Proteomes in Ontario, Canada</i>
10:05	Guido Giordano , Technical University of Munich, DE <i>Progress on the Crop Proteome Atlas (Year 3): a focus on barley germination and malting</i>
10:30– 11:00	COFFEE BREAK New Brunswick Room, with Exhibits & Posters
11:00	Session 5 – Agricultural Proteomics (Session II) Chair: Justin Walley, Iowa State University Co-Chair Jiaxi Lu, University of Guelph
11:00	Justin Walley , Iowa State University, USA <i>Regulatory architecture of disease resistance in maize revealed by multi-omic systems genetics</i>
11:20	Industry Sponsored Jennifer Geddes-McAlister , University of Guelph, CAN <i>Temporal wheat proteome remodeling by deoxynivalenol reveals novel detoxification signatures and strategies across cultivar</i>
11:40	Hui Cao , The University of Western Australia, AUS <i>Dissecting 70 years of wheat breeding through proteome-wide association study</i>
11:55	Ankita Sehrawat , Maitreyi College, University of Delhi, India <i>Exploring the role of Nitric Oxide (NO) priming in stress tolerance and analyzing biotechnological use of NO in increasing secondary metabolites production</i>

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Saturday, May 17, 2025, cont.

12:15 – 13:30	LUNCH BREAK – Early Career Researcher Session (All Welcome & Lunch Provided) Chair: Guido Giordano, Technical University Munich Alberta Room
13:30	FREE TIME
18:30	RECEPTION Mt. Stephen Hall
19:00	DINNER & DANCING, Award Presentation Mt. Stephen Hall



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Sunday, May 18, 2025	
07:30 – 08:30	BREAKFAST New Brunswick Room with Exhibits & Posters
08:30 – 10:15	Session 6 - The Modified Plant Proteome 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	Chris White-Gloria , University of Calgary <i>Phospho-proteomics uncovers vast range of substrates for chloroplastic protein phosphatase SLP1</i>
10:25 – 10:50	COFFEE BREAK New Brunswick Room, with Exhibitors & Posters
10:50 – 12:30	Session 7 – Plant Interactomes Chair: Shouling Xu, Carnegie Institution at Stanford Co-Chair: Niels Maywald, University of Guelph
10:50	KEYNOTE Pengcheng Wang , Institute of Advanced Biotechnology, CN <i>Chloroplast phosphonetworks in Arabidopsis</i>
11:20	Shouling Xu , Carnegie Institution at Stanford, USA <i>Mapping Architecture of Protein complexes in Arabidopsis using XL-MS</i>
11:40	Kishor Ingole , University of Cambridge, UK <i>Unravelling the Cell-type specific SUMOylome of Arabidopsis roots by mass spectrometry (MS)</i>
12:00	Kyle Bender , University of Zurich, CH <i>Quantitative proteomics of plant receptor kinase signaling</i>
12:15	Linfei Guo , Wageningen University, NL <i>Proteomic analysis of growth-stress interaction</i>
12:30	WRAP-UP & CLOSING Conference Chairs: Jennifer Geddes-McAlister, R. Glen Uhrig