

22nd International Conference on Plant Growth Substances



June 21st – 25th, 2016

Victoria University

in the University of Toronto

Toronto, Ontario, Canada

CONFERENCE PROGRAM

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ORGANIZING COMMITTEE

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SESSION OVERVIEW

Tuesday, June 21, 2016 1:00-6:00 pm 3:00-5:00 pm 5:30-5:45 pm 5:45-8:00 pm	Registration Welcome and Reception Opening Ceremony Silver Medal Presentations
Wednesday, June 22, 2016 9:00-10:35 am 10:35-11:00 am 11:00-12:30 pm 12:30-2:00 pm 2:00-3:30 pm 3:30-4:00 pm 4:00-5:30 pm 5:30 pm 5:30-7:00 pm 5:30-8:30 pm 5:30-8:30 pm 9:00 am – 8:30 pm	Plenary I: Hormone Metabolism & Transport Coffee Plenary II: Novel Signaling Molecules Lunch Concurrent 1: A. Hormone Interactions, B. Abiotic Interactions, C. Hormone Perception Coffee Concurrent 2: A. Hormone Metabolism, B. Hormone Transport, C. Hormone Genomics Poster Session Opens Poster Session 1 (Odd-Numbered Abstracts) Poster Reception Open Browsing of Posters Open Browsing of Exhibits
Thursday, June 23, 2016 9:00-10:30 am 10:30-11:00 am 11:00-12:30 pm 12:30-2:00 pm 2:00-3:30 pm 3:30-4:00 pm 4:00-5:30 pm 5:30 pm 5:30-7:00 pm 5:30-8:30 pm 9:00 am – 8:30 pm	Plenary III: Hormones & Environment Coffee Plenary IV: Future of Growth Regulators (Round Table) Lunch Concurrent 3: A. Chemical Biology, B. Light Responses, C. Gasotransmitters Coffee Concurrent 4: A. Hormone Signaling, B. Biotic Interactions, C. Reproductive Development Posters and Exhibit Sessions Open Poster Session 2 (Even-Numbered Abstracts) Poster Reception Open Browsing of Posters and Exhibits
Friday, June 24, 2016 9:00-10:30 am 10:30-11:00 am 11:00-12:30 pm 12:30-2:00 pm 2:00 pm – 6:00 pm 6:00-10:30 pm 9:00 am – 8:30 pm	Plenary V: Hormones & Development Coffee Concurrent 5: A. Vegetative Development, B. Novel Methods, C. Hormones & Biotechnology Lunch Free Time BBQ Dinner and Dance Open Browsing of Exhibits
Saturday, June 25, 2016 9:00-10:30 am 10:30-11:00 am 11:00-12:30 pm 12:30-1:00 pm	Plenary VI: Hormone Interactions Coffee Plenary VII: Hormone Perception & Signaling Closing Remarks

Meeting Sponsors

Platinum Level



OLCHEMIM AWARD

Joe Kieber, Tadao Asami

UNC

U Tokyo



Dr. Yuji Kamiya

Meeting Sponsors

Gold Level



University of Toronto
Centre for the Analysis of
Genome Evolution & Function

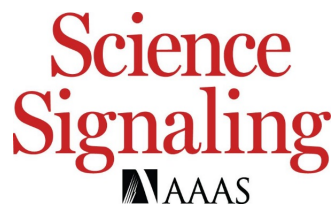


The promise of **growth**



Frontier Agri-Science

Silver Level



CONFERENCE PROGRAM

Poster schedule

Posters can be set up on **Tuesday, June 21st** beginning at **2:00 pm** or **Wednesday, June 22nd** at **9 am** in the **Goldring Student Centre** (150 Charles St. West), across from the Bader Theatre where plenary talks are held. Posters must be in place by no later than **5 pm** on **Wednesday, June 22nd, 2016**. All posters will be available for viewing on **June 22nd - 23rd, 2016** until 8:30 pm. Posters must be removed by **10:00 am** on **Friday, June 24th, 2016**. Posters not removed will be discarded.

Poster Number

To determine the date and location of your poster session in the Goldring Centre, locate your abstract in the online listing or in the end of this program booklet and note the poster number. Abstracts are listed alphabetically. Your poster number was also e-mailed to you prior to the conference. Please attend to your poster during your poster session. The range of poster numbers will be posted outside each room in the Goldring Centre and is listed below.

Poster Sessions

All posters with **ODD** numbers will be presented on **Wednesday, June 22nd** from **5:30-7:00 pm**.

All posters with **EVEN** numbers will be presented on **Thursday, June 23rd** from **5:30-7:00 pm**.

Poster Room (Goldring Centre)	Floor	Poster numbers
GC-126-WMC Atrium	1 st	1-48
GC-148-Wymilwood Lounge	1 st	49-89
GC-218-Music Room	2 nd	90-138
GC-203-Regent's Foyer	2 nd	139-179

Open browsing of all posters is encouraged before and after the designated presentation times (5:30-7:00 pm) until 8:30 pm on Wednesday, June 22nd and Thursday, June 23rd.

Poster Reception

Poster receptions will be held on Wednesday, June 22nd and Thursday, June 23rd from 5:30-8:30 pm at **Ned's Café** located on the 1st floor of the Goldring Centre.

Tuesday, June 21, 2016

1:00–6:00 pm	Registration	Victoria College Building VC
3:00–5:00 pm	Welcome Reception	Victoria College Building VC
5:30–5:45 pm	Opening Ceremonies and Silver Medal Presentations	Isabel Bader Theatre BT
5:45–6:30 pm	Exploring ABA receptors for water use-efficient plants Erwin Grill, Technische Universität München, Germany	
6:30–7:15 pm	Strigolactone biosynthesis and action in rice and Arabidopsis Shinjiro Yamaguchi, Tohoku University, Japan	
7:15–8:00 pm	There and back again Peter McCourt, University of Toronto, Canada	

Wednesday, June 22, 2016

9:00–10:35 am	Plenary I: Hormone Metabolism & Transport Session sponsored by RIKEN CSRS	Isabel Bader Theatre BT
	Session Chair: Hitoshi Sakakibara, Japan	
9:00–9:05 am	Sponsor talk: Hitoshi Sakakibara, RIKEN CSRS	
9:05–9:35 am	Regulation of synthesis and transport of cytokinins for quantitative and qualitative tuning of actions for plant growth optimization Hitoshi Sakakibara, RIKEN CSRS, Japan	
9:35–10:05 am	TBD Jiri Friml, IST, Austria	
10:05–10:35 am	TBD Salim Al-Babili, KAUST, Saudi Arabia	
10:35–11:00 am	Coffee Break	Isabel Bader Theatre BT
11:00–12:30 am	Plenary II: Novel Signaling Molecules	Isabel Bader Theatre BT
	Session Chair: Yoshikatsu Matsubayashi, Nagoya University, Japan	
11:00–11:30 am	Identification of novel peptide hormones in plants Yoshikatsu Matsubayashi, Nagoya University, Japan	
11:30–12:00 pm	Antheridiogen determines sex in ferns via a spatiotemporally split gibberellin synthesis pathway Miyako Ueguchi-Tanaka, Bioscience and Biotechnology Center, Nagoya University, Japan	
12:00–12:30 pm	Binding of RALF1 to the FERONIA receptor kinase downregulates the plasma membrane H⁺-ATPase and reduces cell elongation in roots Miyoshi Haruta, University of Wisconsin-Madison, USA	
12:30–2:00 pm	Lunch	Victoria College Building VC
2:00–3:30 pm	Concurrent 1A: Hormone Interaction Session sponsored by Agrisera	Isabel Bader Theatre BT
	Session Chair: Steve Penfield, UK	
2:00–2:18 pm	TBD Steve Penfield, John Innes Centre, UK	
2:20–2:38 pm	TBD George Bassel, University of Birmingham, UK	
2:40–2:58 pm	TBD Yonghong Wang, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China	
3:00–3:08 pm	The pea branching RMS2 gene encodes the PsAFB4/5 auxin receptor and is involved in an auxin-strigolactone regulation loop Catherine Rameau, INRA Institut Jean-Pierre Bourgin, France	
3:10–3:18 pm	Interaction of cytokinin with auxin and ethylene in the control of primary root growth G. Eric Schaller, Dartmouth College, USA	

2:00-3:30 pm	Concurrent 1B: Abiotic Interactions Session sponsored by Performance Plants Inc.	Northrup Frye NF 003
	Session Chair: Motoyuki Ashikari, Nagoya University, Japan	
2:00-2:18 pm	Ethylene-gibberellin relay induces internode elongation in deepwater rice Motoyuki Ashikari, Nagoya University, Japan	
2:20-2:38 pm	Release of GTP exchange factor mediated regulation of abscisic acid signal transduction through ABA-induced rapid processing of RopGEFs	
2:40-2:58 pm	Julian Schroeder, University of California San Diego, USA Novel Epigenetic, RNA and Peptide Regulation in Plant Abiotic Stress Responses Motoaki Seki, RIKEN CSRS, Japan	
3:00-3:08 pm	Tissue-specific regulation of gibberellin signaling fine-tunes the iron availability responses Jean-Michel Davière, IBMP-CNRS, France	
3:10-3:18 pm	Control of plant phosphate homeostasis by SPX inositol polyphosphate sensor domains Rebekka Wild, University of Geneva, Switzerland	
3:20-3:28 pm	Enhancement of ABA receptor confers water-saving drought tolerance in wheat Masanori Okamoto, Arid Land Research Center, Tottori University, Japan	
2:00-3:30 pm	Concurrent 1C: Hormone Perception Session sponsored by Science Signaling	Emmanuel College EM 001
	Session Chair: Kimberley Snowden, New Zealand	
2:00-2:18 pm	Strigolactone perception by DAD2 and the environmental control of branching Kimberley Snowden, The New Zealand Institute for Plant & Food Research, New Zealand	
2:20-2:38 pm	A mechanism of rapid ABA signaling inactivation through tyrosine nitration of PYR/PYL/RCAR receptors José León, IBMCP (CSIC-UPV), Spain	
2:40-2:58 pm	Probing strigolactone receptors in <i>Striga hermonthica</i> with fluorescence Yuichiro Tsuchiya, Nagoya University, Japan	
3:00-3:08 pm	Understanding Auxin perception and selectivity Mussa Quareshy, University of Warwick, UK	
3:10-3:18 pm	The D14 strigolactone receptor: part-enzyme and part-receptor Alexandre de Saint Germain, Salk Institute, USA	
3:20-3:28 pm	Ligand-induced transitions in the phosphorylation status of ethylene receptors in tomato fruit Yusuke Kamiyoshihara, College of Bioresource Sciences, Nihon University, Japan	
3:30-4:00 pm	Coffee Break	Isabel Bader Theatre BT
4:00-5:30 pm	Concurrent 2A: Hormone Metabolism Session sponsored by Canadian Life Science	Isabel Bader Theatre BT
	Session Chair: Yunde Zhao, University of California, San Diego, USA	
4:00-4:18 pm	Auxin biosynthesis in Arabidopsis Yunde Zhao, University of California, San Diego, USA	
4:20-4:38 pm	Regulation of gibberellin catabolism by touch Theo Lange, TU Braunschweig, Germany	
4:40-4:58 pm	SOL1 and other peptidases are responsible for CLE peptide processing mechanisms Shinichiro Sawa, Kumamoto University, Japan	
5:00-5:08 pm	Oxidative inactivation of auxin by DAO1 regulates growth in Arabidopsis thaliana Wendy Peer, University of Maryland, USA	
5:10-5:18 pm	Biochemical Characterization of More Axillary Growth in Strigolactone Biosynthesis Takahito Nomura, Utsunomiya University, Japan	
5:20-5:28 pm	Jasmonoyl-isoleucine catabolic pathways provide new insights into jasmonate homeostasis Thierry Heitz, IBMP-CNRS Strasbourg University, France	
4:00-5:30 pm	Concurrent 2B: Hormone Transport Session sponsored by PeerJ	Northrup Frye NF 003

4:00-4:18 pm	Session Chair: Mitsunori Seo, RIKEN Center for Sustainable Resource Science, Japan Functional screening of plant hormone transporters using modified yeast two-hybrid systems with receptor complexes	
4:20-4:38 pm	Mitsunori Seo, RIKEN Center for Sustainable Resource Science, Japan NPF proteins are part of protein regulatory network involved in hormone-dependent nutrient sensing	
4:40-4:58 pm	Benoit Lacombe, CNRS, Montpellier, France Long-distance transport of endogenous gibberellins in Arabidopsis	
5:00-5:08 pm	Patrick Achard, IBMP-CNRS, France The over expression of the strigolactone transporter PDR1 as a tool to improve plant growth on phosphate poor soils	
5:10-5:18 pm	Lorenzo Borghi, University of Zurich, Switzerland Intracellular auxin gradient is essential for the tip growth of a protonemal cell in the moss, Physcomitrella patens	
5:20-5:28 pm	Kousuke Fukui, Okayama University of Science, Japan JEFF1 and JEFF2 facilitate jasmonate efflux and affect the wound response in Arabidopsis thaliana	
	Hussam Nour-Eldin, University of Copenhagen, Denmark	
4:00-5:30 pm	Concurrent 2C: Hormone Genomics	Emmanuel College EM 001
	Session sponsored by Cell and Systems Biology at University of Toronto	
4:00-4:18 pm	Session Chair: David Nelson, University of Georgia, USA Harnessing the power of molecular evolutionary analysis to understand strigolactone signaling	
4:20-4:38 pm	David Nelson, University of Georgia, USA Efficient mapping of genome-wide regulatory elements for biological insights	
4:40-4:58 pm	Carol Huang, Joe Ecker Lab, Salk Institute, USA Chemical Genomics To Unravel Auxin Perception Controlling Arabidopsis Seedling Development	
5:00-5:08 pm	Stephanie Robert, Swedish University of Agricultural Sciences, Sweden The root-derived > signal induces ABA-dependent and ABA-independent changes in gene expression	
5:10-5:18 pm	Leslie Sieburth, University of Utah, USA Internal and External Signals Controlling Radial Expansion of Root Systems	
5:20-5:28 pm	Sascha Waidmann, University of Natural Resources and Life Sciences, Austria Identification of gibberellin signaling components in cold stress	
	Ourania Lantzouni, Technical University of Munich, Germany	
5:30-7:00 pm	Poster Session 1 (Odd-Numbered Abstracts)	Goldring Centre GC
5:30-8:30 pm	Poster Reception	Ned's Café, Goldring Centre

Thursday, June 23, 2016

9:00-10:30 am	Plenary III: Hormones & Environment	Isabel Bader Theatre BT
9:00-9:30 am	Session Chair: Salomé Prat, Centro Nacional de Biotecnología-CSIC, Spain DELLA-dependent salt stress tolerance network	
9:30-10:00 am	Salomé Prat, Centro Nacional de Biotecnología-CSIC, Spain TBD	
	Jennifer Nemhauser, University of Washington, USA	
10:00-10:30 am	Beyond the Green Revolution: new approaches for improving nitrogen use efficiency and grain yield in rice	

Xiangdong Fu, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

10:30-11:00 am	Coffee Break	Isabel Bader Theatre BT
11:00-12:30 pm	Plenary IV: Future of Growth Regulators (Round Table)	Isabel Bader Theatre BT
	Session Chair: Shelley Lumba, University of Toronto, Canada Yuji Kamiya, RIKEN CSRS, Japan Ottoline Leyser, Sainsbury Laboratory, University of Cambridge, UK Sean Cutler, University of California, Riverside, USA Nancy Gough, AAAS/Science Signaling, USA Aron Silverstone, Syngenta, USA	
12:30-2:00pm	Lunch	Victoria College Building VC
2:00-3:35 pm	Concurrent 3A: Chemical Biology	Isabel Bader Theatre BT
	Session sponsored by Olchemim Ltd.	
	Session Chair: Tadao Asami, The University of Tokyo, Japan Sponsor talk: Luděk Fröhlich, Olchemim Ltd.	
2:00-2:05 pm		
2:05-2:23 pm	Chemical regulation of plant hormone functions and their cross talk: SL, GA, BL and Et Tadao Asami, The University of Tokyo, Japan	
2:25-2:43 pm	A small-molecule approach to identify chemical activators of brassinosteroid signaling Jenny Russinova, Ghent University, Belgium	
2:45-3:03 pm	Mechanism of strigolactone reception through pea receptor studies François-Didier Boyer, INRA, France	
3:05-3:13 pm	A forward genetic screen on chemicals that disrupt the actin cytoskeleton uncovers a novel regulator of auxin efflux carrier trafficking in Arabidopsis Elison Blancaflor, The Samuel Roberts Noble Foundation, USA	
3:15-3:23 pm	Chemical screening uncovers an antagonist for the strigolactone receptor HTL Duncan Holbrook-Smith, University of Toronto, Canada	
3:25-3:33 pm	Design and synthesis of fluorescently labeled 6-substituted purine derivatives as markers of cytokinin perception Lucie Plíhalová, Palacký University Olomouc, Czech Republic	
2:00-3:35 pm	Concurrent 3B: Light Responses	Northrup Frye NF 003
	Session sponsored by Conviron	
	Session Chair: Giltso Choi, Korea Advanced Institute of Science and Technology, Korea Sponsor talk: Lee Klimpke, Conviron	
2:00-2:05 pm		
2:05-2:23 pm	PhyB inhibits negative gravitropism non-cell autonomously Giltso Choi, Korea Advanced Institute of Science and Technology, Korea	
2:25-2:43 pm	TBD Christian Fankhauser, University of Lausanne, Switzerland	
2:45-3:03 pm	Shade Avoidance Requires Multiple Hormone Signaling Pathways Julin Maloof, University of California, Davis, USA	
3:05-3:13 pm	Effects of elevated ambient pressure and temperature on rates of net photosynthesis and dark respiration Shinya Sawada, Osaka University, Japan	
3:15-3:23 pm	The Interaction of Light and Gibberellin in the Control of Wheat Architecture Bethany Ellis, Rothamsted Research, UK	
3:25-3:33 pm	PHYA and PHYB regulate adventitious rooting in response to dark-light transitions in Arabidopsis seedlings Molly Kreiser, University of Minnesota, USA	
2:00-3:30 pm	Concurrent 3C: Gasotransmitters	Emmanuel College EM 001
	Session sponsored by DuPont Pioneer	
	Session Chair: Mike Holdsworth, UK	
2:00-2:23 pm	Function and evolution of oxygen and nitric oxide sensing through the N-end rule pathway Mike Holdsworth, University of Nottingham, UK	

2:25-2:48 pm	A sleigh ride through the SNO: Role of S-nitrosylation in plant immunity Gary Loake, Edinburgh University, UK	
2:50-3:13 pm	Regulation of nitric oxide by phytooglobins Kim Hebelstrup, Aarhus University, Denmark	
3:15-3:28 pm	Ethylene modulation of reactive oxygen species signaling by flavonoid antioxidants in guard cells Justin Watkins, Wake Forest University, USA	
3:30-4:00 pm	Coffee Break	Isabel Bader Theatre BT
4:00-5:35 pm	Concurrent 4A: Hormone Signaling Session sponsored by Olchemim Ltd.	Isabel Bader Theatre BT
	Session Chair: Teva Vernoux, CNRS/ENS Lyon, Laboratoire de Reproduction et Développement des Plantes, France	
4:00-4:05 pm	Sponsor talk: Luděk Fröhlich, Olchemim Ltd.	
4:05-4:23 pm	Combining imaging and modeling to understand how hormonal signals drive self-organization dynamics at the meristem Teva Vernoux, CNRS/ENS Lyon, France	
4:25-4:43 pm	Cytokinin: Beyond Two Component Signaling Joe Kieber, University of North Carolina, USA	
4:45-5:03 pm	TBD Ari Sadanandom, Durham University, UK	
5:05-5:13 pm	COP1 is a negative regulator of seed germination in strigolactone signaling Shigeo Toh, Nagoya University, Japan	
5:15-5:23 pm	Nitrate signaling via Abscissic Acid release from inactive conjugates in Arabidopsis root tips Jeanne Harris, University of Vermont, USA	
4:00-5:30 pm	Concurrent 4B: Biotic Interactions Session sponsored by Centre for the Analysis of Genome Evolution & Function	Northrup Frye NF 003
	Session Chair: Ken Shirasu, Japan	
4:00-4:18 pm	Vascular hijack by parasitic plants Ken Shirasu, RIKEN Center for Sustainable Resource Science, Japan	
4:20-4:38 pm	TBD Mary Wildermuth, UC Berkeley, USA	
4:40-4:58 pm	Pipecolic acid – a central regulator of plant systemic acquired resistance and defense priming Jürgen Zeier, Heinrich-Heine University Düsseldorf, Germany	
5:00-5:08 pm	The clubroot pathogen Plasmodiophora brassicae controls plant hormone homeostasis by degradation, conjugation and methylation to alter plant defense responses Jutta Ludwig-Müller, Technische Universität Dresden, Germany	
5:10-5:18 pm	DELLA regulates arbuscular mycorrhiza formation by interacting with the central symbiosis transcription factor CYCLOPS Caroline Gutjahr, LMU Munich, Germany	
5:20-5:28 pm	Protein Phosphatase 2A as a post-translational regulator of salicylic acid dependent pathogenesis responses Saijaliisa Kangasjärvi, University of Turku, Finland	
4:00-5:30 pm	Concurrent 4C: Reproductive Development Session sponsored by The Company of Biologists	Emmanuel College EM 001
	Session Chair: Doris Wagner, University of Pennsylvania, USA	
4:00-4:18 pm	The contribution of the ‘antiflorigen’ TFL1 to inflorescence architecture Doris Wagner, University of Pennsylvania, USA	
4:20-4:38 pm	Flowering and plant architecture in the perennial model Arabis alpine Maria Albani, University of Cologne, Germany	
4:40-4:58 pm		

	A non-canonical auxin-sensing mechanism is required for organ morphogenesis in Arabidopsis	
5:00-5:08 pm	Sara Simonini, John Innes Centre, UK	
	Gibberellins are essential for cucumber female flower development	
5:10-5:18 pm	Maria Joao Pimenta Lange, Braunschweig University of Technology, Germany	
	IQ-domain proteins connect auxin and calcium signaling during Arabidopsis development	
5:20-5:28 pm	Jos Wendrich, Wageningen University, Netherlands	
	Manipulating gibberellin signalling in developing wheat grain for improved yield and quality	
	Aakriti Wanchoo-Kohli, Rothamsted Research, UK	
5:30-7:00 pm	Poster Session 2 (Even-Numbered Abstracts)	Goldring Centre GC
5:30-8:30 pm	Poster Reception	Goldring Centre, Ned's Café

Friday, June 24, 2016

9:00-10:30 am	Plenary V: Hormones & Development	Isabel Bader Theatre BT
	Session sponsored by The Company of Biologists	
	Session Chair: Ottoline Leyser, Sainsbury Laboratory, University of Cambridge, UK	
9:00-9:30 am	TBD	
	Ottoline Leyser, Sainsbury Laboratory, University of Cambridge, UK	
9:30-10:00 am	TRANSPORTER OF IBA1 links auxin and cytokinin to regulate root architecture	
	Lucia Strader, Washington University in St. Louis, USA	
10:00-10:30 am	TBD	
	Tom Beeckman, Ghent University – VIB, Belgium	
10:30-11:00 am	Coffee Break	Isabel Bader Theatre BT
11:00-12:35 pm	Concurrent 5A: Vegetative Development	Isabel Bader Theatre BT
	Session sponsored by Syngenta	
	Session Chair: Claus Schwechheimer, Technical University of Munich, Germany	
11:00-11:05 am	Sponsor talk: Aron Silverstone, Syngenta	
11:05-11:23 am	LLM-domain B-GATAs control stomata formation downstream from light and PIF transcription factors	
	Claus Schwechheimer, Technical University of Munich, Germany	
11:25-11:43 am	Identifying Gibberellic-Acid transport mechanisms in Arabidopsis	
	Eilon Shani, Tel Aviv University, Israel	
11:45-12:03 pm	A role for auxin methylation during plant development	
	Miguel Blázquez, IBMCP (CSIC-UPV), Spain	
12:05-12:13 pm	A Model Integrating Cytokinin into Regulation of Shoot Branching by Light Signals	
	Tesfamichael Kebrom, Texas A&M University, USA	
12:15-12:23 pm	Carbon availability controls shoot growth through sugar-induced cytokinin biosynthesis and transport in Arabidopsis	
	Takatoshi Kiba, RIKEN CSRS, Japan	
12:25-12:33 pm	ABA is a modulator of endodormancy release in grapevine buds	
	Etti Or, Volcani Center, ARO, Israel	
11:00-12:30 pm	Concurrent 5B: Novel Methods	Northrup Frye NF 003
	Session sponsored by The Bio-Analytic Resource for Plant Biology	
	Session Chair: Alexander Jones, Sainsbury Laboratory, Cambridge University, UK	
11:00-11:18 am	Imaging phytohormones during development and environmental responses using FRET biosensors	
	Alexander Jones, Sainsbury Laboratory, Cambridge University, UK	
11:20-11:38 am	Comparison of cytokinin metabolism kinetics of two distinct Arabidopsis ecotypes through experimental and computational techniques	

	Klára Hoyerová, Institute of Experimental Botany AS CR, Czech Republic	
	Selective degradation of Aux/IAA proteins modulates plant development	
11:40-11:58 am	Thomas Vain, Umeå Plant Science Centre, Sweden	
	A novel targeted metabolomic approach in plant hormone analysis	
12:00-12:08 pm	Ondrej Novak, Institute of Experimental Botany AS CR & Palacky University, Czech Republic	
	Tissue-Specificity of ABA Biosynthesis in Relation to Its Roles During Arabidopsis Seed Development and Germination	
12:10-12:18 pm	Annie Marion-Poll, INRA, France	
	Auxin biosynthesis inhibitors, new tools for auxin study and regulation	
12:20-12:28 pm	Kazuo Soeno, National Agriculture and Food Research Organization (NARO), Japan	
11:00-12:35 pm	Concurrent 5C: Hormones & Biotechnology	Emmanuel College EM001
	Session sponsored by Frontier Agri-Science	
	Session Chair: Wilhelm Rademacher, BASF (retired), Germany	
11:00-11:05 am	Sponsor talk: Julian Northey, Frontier Agri-Science	
11:05-11:23 am	Plant Growth Regulators in Crop Production: Overview and New Developments	
	Wilhelm Rademacher, BASF (retired), Germany	
11:25-11:43 am	Transgenic alteration of ethylene biosynthesis and ethylene sensitivity increases grain yield in maize under field drought-stress conditions	
	Jinrui Shi, DuPont Pioneer, USA	
11:45-12:03 pm	Strigolactones: biosynthesis and potential in agriculture	
	Christine Beveridge, The University of Queensland, Australia	
12:05-12:13 pm	Gibberellin Signalling: A Target For Improving Wheat Architecture	
	Steve Thomas, Rothamsted Research, UK	
12:15-12:23 pm	New cytokinin derivatives for plant biotechnology, agriculture and cosmetics	
	Karel Doležal, Palacky University, Czech Republic	
12:25-12:33 pm	Translating frost tolerant seed degreening from Arabidopsis to Canola	
	Mendel Perkins, University of Calgary, Canada	
12:30-2:00 pm	Lunch	Victoria College Building
2:00-6:00 pm	Free Time	
6:00-10:30 pm	BBQ Dinner and Dance	Hart House, Great Hall and Quad

Saturday, June 25, 2016

9:00-10:30 am	Plenary VI: Hormone Interactions	Isabel Bader Theatre
	Session Chair: Zhiyong Wang, Carnegie Institute, USA	
9:00-9:30 am	Regulation of the hormone networks by the circadian clock and nutrient signals	
	Zhi-Yong Wang, Carnegie Institution for Science, USA	
9:30-10:00 am	TBD	
	Yka Helariutta, Sainsbury Laboratory, Cambridge University, UK	
10:00-10:30 am	Translational regulation of plant hormone responses	
	Jose Alonso, North Carolina State University, USA	
10:30-11:00 am	Coffee Break	Isabel Bader Theatre
11:00-12:30 pm	Plenary VII: Hormone Perception & Signaling	Isabel Bader Theatre
	Session sponsored by Cell & Systems Biology at University of Toronto	
	Session Chair: Mark Estelle, University of California, San Diego, USA	
11:00-11:30 am	Constitutive auxin response in Physcomitrella reveals complex interactions between Aux/IAA and ARF proteins	
	Mark Estelle, University of California, San Diego, USA	
11:30-12:00 pm	Chemical dissection of ABA receptor function	

Sean Cutler, University of California, Riverside, USA

12:00-12:30 pm

Plant membrane receptor activation by shape-complementary co-receptor kinases

Michael Hothorn, University of Geneva, Switzerland

12:30-1:00 pm

Closing Remarks

Isabel Bader Theatre

GENERAL MEETING INFORMATION

Registration/Information Desk

The IPGSA Registration desk is in Victoria College Building (91 Charles Street West, M5S 1K7) on **Tuesday, June 21st from 1:00 pm-6:00 pm**. Registration on **June 22nd** and **June 23rd** will take place in the lobby of Isabel Bader Theatre (93 Charles St. W, M5S 2C7) from **9:00-11:00 am**.

Your registration fee includes the following:

IPGSA printed program, Opening Reception, Coffee Breaks (6), Lunches (3), Poster Receptions (2), BBQ dinner and dance at Hart House, attendance at Plenary, Concurrent, and Poster sessions.

Admission to all conference activities is by name badge; please wear your badge at all times. The full program and all abstracts are posted as a pdf on the IPGSA webpage.

Welcome Reception and Opening Ceremony

The Welcome Reception precedes the Opening Ceremony and Silver Medal Presentations and will take place in the Alumni Hall of **Victoria College** Building (91 Charles Street West, M5S 1K7) on Tuesday, June 21st from **3:00-5:00 pm**. The Opening Ceremony and Silver Medal Presentations will be held in the **Isabel Bader Theatre** (93 Charles St. W, M5S 2C7) from 5:30-8:00pm.

Conference BBQ

Admission to the BBQ is by name badge and will be held on campus at **Hart House** Quad or Great Hall in case of rain (7 Hart House Cir, Toronto, ON M5S 3H3). Hart House is within 5 minutes walking distance of Victoria College across Queen's Park. For full directions, please consult maps in the end of the program booklet.

Oral Presentation Guidelines- for all speakers (invited and selected from abstracts)

Please save your oral presentation onto a USB drive in this format: Session_LastName (e.g. ChemicalBiology_Wang) in either .pptx or .ppt format. Presentations must be loaded onto the podium computer **15 minutes prior** to the start of your session.

The conference supplies PC laptops (not Macintosh). **We highly prefer that all talks be loaded onto UofT PC laptops to avoid switching laptops between each presentation due to time constraints.** We highly recommend that speakers arrive **15 minutes before their sessions** to load their presentations onto UofT PC laptops. **In case you must use a Macintosh laptop, you must supply the laptop AND bring any necessary adaptor (e.g. VGA).**

• **Plenary Sessions:** All Plenaries are in the Bader Theatre. • **Concurrent Sessions:** Sessions take place in Bader Theatre, Emmanuel College (EM001) and Northrop Frye (NF003). Consult program for details.

Sponsor Exhibition

Sponsor exhibits will be available for viewing during the Welcome Reception at Victoria College Building (91 Charles Street West, M5S 1K7). For the remainder of the meeting, sponsor exhibits are displayed in the foyer of the Bader Theatre and/or during poster receptions at Ned's Café.

Poster Numbers and Location

Your final poster number should have been sent to you by e-mail but you may also look up your abstract title in the online listing or at the end of this program booklet. The poster number will be indicated on the poster board.

All posters will be located in the **Goldring Student Centre** (150 Charles St. West, see maps at the back of the booklet), across from the Bader Theatre where plenary talks are held. They will be distributed among four rooms on the first and second floors of the Goldring Centre. The range of poster numbers will be posted outside each room and is listed below.

Poster Room (Goldring Centre)	Floor	Poster numbers
GC-126-WMC Atrium	1st	1-48
GC-148-Wymilwood Lounge	1st	49-89
GC-218-Music Room	2nd	90-138
GC-203-Regent's Foyer	2nd	139-179

Poster Sessions

All posters with **ODD** numbers will be presented on **Wednesday, June 22nd from 5:30-7:00 pm**.

All posters with **EVEN** numbers will be presented on **Thursday, June 23rd from 5:30-7:00 pm**.

Please attend to your poster during your poster session.

POSTER SESSION AND EXHIBITION HOURS AT THE GOLDRING CENTRE

Day	Time	Function
Tuesday, June 21	2:00pm to 8:30pm	Set-up
Wednesday, June 22	9:00 am to 5:30 pm	Set-up. No scheduled poster session, exhibits open
Wednesday, June 22	5:30 pm to 7:00 pm 5:30 pm to 8:30 pm	Odd-# abstracts presentation Poster Reception
Thursday, June 23	9:00am to 5:30pm	No scheduled poster session, open viewing of posters and exhibits
Thursday, June 23	5:30pm to 7:00pm 5:30 pm to 8:30 pm 7:00 pm to 8:30 pm	Even-# abstracts presentation Poster Reception Take-Down (first chance)
Friday, June 24	9:00am to 10:00am	Take-Down (last chance)

Coffee Breaks Coffee breaks for conference attendees will be held at Bader Theatre.

Responsibility The Organizing Committee assumes no responsibility for accident, losses, damage, delays, or any modifications to the program arising from unforeseen circumstances. It accepts no responsibility for travel or

accommodation arrangements. The participant acknowledges that he or she has no right to lodge damage claims against the Organizing Committee should the conference proceedings be hindered or prevented by unexpected political or economic events or generally by acts of God, or should the non-appearance of speakers or other reasons necessitate program changes.

Internet Access Wireless Internet access is available in Victoria College buildings by choosing the “UofT” network from your wireless options. The username is **IPGSA16** (all caps) and the password is **hormone** (lower caps). For more information, please visit <http://help.ic.utoronto.ca/category/20/wireless-access.html>.

Public Transit Museum Station is the nearest TTC (Toronto Transit Commission) subway station to Victoria College and is located on Queen’s Park Rd just south of Charles St. Buses and subways require exact change (\$3.25 for cash or single fare within Toronto) or tokens (purchased at any TTC subway station).

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Emergency Telephone Numbers

Emergency – fire, police, and ambulance: 911. Toronto Police Service non-emergency line: 416-808-2222.

Emergency Medical Care

Multiple hospitals such as Toronto General Hospital and Mt. Sinai Hospital are located on University Ave. south of College St.

Insurance

Liability insurance is the responsibility of each individual delegate. Visitors are not covered by the Canadian Medical Health Insurance Plan. Delegates should have their own medical coverage.

Nearest Pharmacies:

- Snowdon Guardian Pharmacy. Open Monday to Friday 8 am to 7 pm and on Saturday from 10 am to 5 pm. Phone: 416-922-2156. Address: 264 Bloor St W, Toronto, ON M5S 1V8
- Shoppers Drug Mart. Open daily from 8 am to midnight. Phone: (416) 927-0440. Address: 236 Bloor St W, Toronto, ON M5S 1T8.
- **Parking** Limited parking is available for those guests on-campus for a daily rate.
- **Dining Options** University of Toronto campus is located in downtown Toronto and has many dining options available within walking distance. There are many restaurants on Bloor St., north of Victoria College as well as in Chinatown on Spadina Ave.

POSTER NUMBER AND TITLE

Poster # 1 A FACILE SYNTHESIS OF [¹⁵N₄]-SUBSTITUED PURINE DERIVATIVES FROM SIMPLE [¹⁵N]-PRECURSORS Jan Bucek (Chemical biology)

Poster # 2 A forward chemical genetic screen for small molecules that induce the promoter of UGT74E2, an Arabidopsis UDP-glucosyltransferase that affects auxin homeostasis and stress tolerance Pavel Kerchev, Tom van der Meer, Frank Van Breusegem (Chemical biology)

Poster # 3 A moss-specific diterpenoid hormone regulates protonemal growth and development Hiroshi Kawaide, Sho Miyazaki, Masatoshi Nakajima (Hormone metabolism)

Poster # 4 A novel root-knot nematode attractant is released from seeds through seed coat mucilage extrusion Allen Yi-Lun Tsai, Tetsuya Arita, Ryo Kurota, Shinichiro Sawa (Biotic interaction)

Poster # 5 A role for auxin during the later stages of legume seed development John Ross, Tobias Meitzel, Richard Thompson, Marion Dalmais, Abdelhafid Bendahmane, Laura Quittenden, Erin McAdam, Sam Cook, Jennifer Smith (Reproductive development)

Poster # 6 A Rotating View of Auxin Signaling Hongwei Jing (Hormone signaling)

Poster # 7 A screen for AtD14 mutant proteins that can transmit the signal independently of strigolactone binding in Arabidopsis Akane Sakurada, Mengmeng Cao, Kiyoshi Mashiguchi, Yoshiya Seto, Shinjiro Yamaguchi, Weiqiang Li (Hormone perception)

Poster # 8 A study on adaptive significance of gall formation for an aphid inducing galls on Japanese elm trees Yoshihito Suzuki, Shinsaku Ito, Taichiro Ishige, Keisuke Tanaka, Mami Takei (Biotic interaction)

Poster # 9 Abscizazole-E3M, a practical inhibitor of abscisic acid 8'-hydroxylase for use in drought tolerance improvement Masanori Okamoto, Ryosuke Mega, Jun Takeuchi, Yasushi Todoroki (Hormone metabolism)

Poster # 10 Analysis of tissue-specific gene expression and hormone biosynthesis during tissue-reunion process in incised Arabidopsis flowering stem. Miyuki Nakanowatari, Kentaro Ogura, Maasa Banse, Keita Matsuoka, Emi Yumoto, Takao Yokota, Hisakazu Yamane, Masashi Asahina, Shinobu Satoh (Abiotic stress)

Poster # 12 Application of bioregulators of microbiological origin as new effective stimulants of Triticum aestivum L. regeneration in vitro Victoria Tsygankova, Elena Shysha, Anatoly Galkin, Alla Yemets, Yaroslav Blume, Galina Iutynska (Hormones & biotechnology)

Poster # 13 Arabidopsis Cytokinin Response Factor 6 Represses Cytokinin Related Genes in Response to Oxidative Stress to Promote Tolerance Aaron Rashotte, Paul Zwack, H. Hallmark, Erika Keshishian, Andrej Hurny, Eva Benkova, Lenka Plačková, Ondřej Novák, Timothy Howton, M. Mukhtar, Inge De Clercq, Frank Van Breusegem (Abiotic stress)

Poster # 14 Arabidopsis gibberellin 2-oxidase7 catabolic properties revised Maria Pimenta Lange, Nils Kappe, Theo Lange (Hormone metabolism)

Poster # 15 Are non-canonical strigolactones major players? Kohki Akiyama, Christopher McErlean, Koichi Yoneyama, Xiaonan Xie, Kaori Yoneyama, Takahito Nomura (Hormone metabolism)

Poster # 16 Assessment of cytokinin based grain yield in wheat (Triticum aestivum L.) Laura Perry, Neil Emery (Hormone genomics)

Poster # 17 Auxin receptors and seed development in pea Ariane Gélinas-Marion, John Ross (Hormone perception)

Poster # 18 Auxin regulation of ethylene biosynthesis in developing pea fruit Charitha Jayasinghege, Jocelyn Ozga, Kosala Waduthanthri, Dennis Reinecke (Hormone Interactions)

Poster # 19 AUXIN RESPONSE FACTOR ACTIVITY AS A GENETIC SWITCH TO CONTROL PLANT REGENERATION AND ORGANOGENESIS PROPERTIES Naden Krogan, Wenzislava Kcurshumova, Adriana Caragea, Danielle Marcos, Thomas Berleth (Hormones & biotechnology)

Poster # 20 BES1 down-regulates Absciscic Acid 2 to increase seed size in Arabidopsis thaliana Seong-Ki Kim (Hormone Interactions)

Poster # 22 Biochemical characterization of LATERAL BRANCHING OXIDOREDUCTASE involving strigolactone biosynthesis in Arabidopsis Kohki Akiyama, Phillip Brewer, Christine Beveridge, Yoshiya Seto, Shinjiro Yamaguchi, Kaori Yoneyama, Xionan Xie, Koichi Yoneyama, Takahito Nomura (Hormone metabolism)

Poster # 23 Biocommunication between flowering plants and insects through pollen fluorescence Hiroshi Fukui, Katsumi Goto, Junko Tsukioka, Shinnosuke Mori, Mari Kawakami, Masanori Oishi, Masahiro Osakabe, Nariaki Sugioka, Masayuki Sakuma, Nobuhiro Hirai (Biotic interaction)

Poster # 24 BSS1 as a negative regulator for brassinosteroid signaling that was identified by chemical biology using Brz. Takeshi Nakano (Hormone signaling)

Poster # 25 C2-substituted aromatic cytokinin sugar conjugates delay the onset of senescence by maintaining the activity of the photosynthetic apparatus Ondrej Plihal, Hana Vylicilova, Lucie Plihalova, Alexandra Husickova, Lukas Spichal, Karel Dolezal (Chemical biology)

Poster # 26 Characterization and gene functional study of a novel albino mutant in Arabidopsis* LI NA (Hormone signaling)

Poster # 27 Chemical regulation of photorespiratory hydrogen peroxide-induced cell death. Tom van der Meer, Pavel Kerchev, Frank Van Breusegem (Chemical biology)

Poster # 28 Chemical screening of novel strigolactone agonists that specifically interact with D14 proteins. Rei Yasui, Yoshiya Seto, Shinjiro Yamaguchi, Hiroyuki Kasahara (Hormone perception)

Poster # 29 Comparison of cytokinin metabolism kinetics of two distinct Arabidopsis ecotypes through experimental and computational techniques Klara Hoyerova, Petr Hosek, Eva Zizkova, Petre Dobrev (Novel methods and technology for hormone research)

Poster # 30 Conformational changes of DAD2 are an important mechanism in the signal reception of strigolactone Richard Newcomb, Kimberley Snowden, Hui Wen Lee (Hormone perception)

Poster # 31 Control of extra- and intracellular cytokinin levels in cyanobacteria and algae Jan Šimura, Ondřej Novák, Pavel Přibyl, Lenka Závěská, Eva Žížková, Klára Hoyerová, Petre Dobrev, Václav Motyka, Martin Kubeš (Hormone metabolism)

Poster # 32 Cross-talk between brassinosteroid and ethylene: regulation of sugarcane ACC synthase in response to brassinosteroid Eduardo Purgatto, Jose Sergio Soares, Marcelo Menossi, Joseph Kieber (Hormone Interactions)

Poster # 33 Cytokinin hypersignaling reprograms maize leaf patterning Michael Scanlon, Sivanandan Chudalayandi, Anna Rogers, Michael Muszynski, James Cahill (Vegetative development)

Poster # 34 Cytokinin production by Methylobacterium organophilum and their promoting effect on growth and physiology of soybean (Glycine max) Anna Kisiala, Neil Emery (Biotic interaction)

Poster # 35 Cytokinin Response Factors 1 & 2 Response to Abiotic Stress During Germination Erika Keshishian, Paul Cobine, Aaron Rashotte, Ondřej Novák, Lenka Plačková (Abiotic stress)

Poster # 36 Cytokinin–ethylene interaction in wood formation Juha Immanen, Jorma Vahala, Airi Lamminmäki, Kaisa Nieminen, Ykä Helariutta, Jaakko Kangasjärvi (Hormones & biotechnology)

Poster # 37 Cytokinins in poplar Pavel Jaworek, Petr Tarkowski, David Zalabák, Ondřej Plíhal, David Kopečný (Hormone metabolism)

Poster # 38 D6 PROTEIN KINASE is required at the plasma membrane to mediate PIN-dependent auxin transport Inês Barbosa, Melina Zourelidou, Benjamin Weller, Claus Schwechheimer, Ingo Heilmann (Hormone transport)

Poster # 39 Deciphering the role of DELLA in sugarcane: physical interactions with PIF and EIN3/EIL1 proteins Edgar Peiter, Prakash Lakshmanan, Rafael Tavares, Marcelo Menossi (Hormone signaling)

Poster # 40 DELLA, IDD and SCL3 cooperate in the gibberellin feedback system Hideki Yoshida, Ko Hirano, Makoto Matsuoka, Miyako Ueguchi-Tanaka (Hormone signaling)

Poster # 41 DELLA-GAF1/IDD2 COMPLEX REGULATES GIBBERELLIN HOMEOSTASIS AND SIGNALING Jutarou Fukazawa, Takeshi Ito, Yohsuke Takahashi (Hormone signaling)

Poster # 42 Design, synthesis and biological activity of new brassinosteroid analogues with phenyl group in the side chain Jenny Russinova, Miroslav Kvasnica, Jana Oklestkova, Václav Bazgier, Petra Korinkova, Jaromir Mikulik (Hormone Interactions)

Poster # 43 Determining the mechanism of the type-A ARRs in the cytokinin signaling pathway in *Arabidopsis thaliana* Chia-Yi Cheng, Carly Shanks, Joseph Kieber (Hormone signaling)

Poster # 44 Development of compounds showing ethylene like activity Masashi Suzuki, Yuko Kengoyama, Tsubasa Mizuno, Yusaku Imamura, Keiko Abe, Shinji Okada, Tadao Asami, Nobutaka Kitahata (Chemical biology)

Poster # 45 Developmental changes in vegetative and reproductive growth in sunflower (*Helianthus annuus* L.) as influenced by exogenous application of plant growth hormones Gayithri M, Shadakshari YG, Murali K, Punith HV, Nagarathna TK TK (Reproductive development)

Poster # 46 Diterpenoid Momilactones Exhibit Broad Range of Growth-Inhibitory Action upon Various Organisms Keisuke Tomita, Hideaki Nojiri, Kazunori Okada, Ken-ichiro Hayashi, Yasuhiro Matsuo, Makoto Kawamukai (Biotic interaction)

Poster # 47 Effect of colonization with a bacterial endophyte on strigolactone signaling in rice Hideo Nakashita, Miyuki Kusajima, Takamasa Mori, Hiromoto Yamakawa, Tadao Asami (Biotic interaction)

Poster # 48 Effect of Compost and Hormones (Auxin and Gibberellin) on the Chlorophyll and phytochemical content of *Jatropha* Idowu Odeleye (Hormones & biotechnology)

Poster # 49 Effect of transcription factor OshRT1 on the regulation of seed dormancy in rice Heng Xu, Ying Zhu (Reproductive development)

Poster # 50 Effects of auxin, cytokinin and paclobutrazol on vegetative growth of *Solanum tuberosum* L. 'Tedjo MZ' cutting Kumala Dewi, Umami Darrist (Vegetative development)

Poster # 51 Effects of Cytokinin on Adventitious Root Formation in *Arabidopsis thaliana* Dennis Mathews, Kaylyn Bergquist (Vegetative development)

Poster # 52 EFFECTS OF INDOLE-3-ACETIC ACID ON GROWTH PARAMETERS OF *CITRULLUS LANATUS* (THUNBERG) MATSUM. AND NAKAI Moses Osawaru, Matthew Ogwu (Vegetative development)

Poster # 53 Effects of phosphate and other plant hormones on strigolactone production Kaori Yoneyama, Koichi Yoneyama, Takahito Nomura (Hormone Interactions)

Poster # 54 ELUCIDATING THE ROLE OF ETHYLENE IN MANGO MALFORMATION Gurdeep Bains, Archana Singh, Vinai Kumar, Alok Shukla, Ramesh Pant, Wahid Ansari (Hormone Interactions)

Poster # 55 Endogenous auxin regulates region of the adventitious shoot formation on internodal segments in *ipecac* Ken-ichiro Hayashi, Imari Koike, Koichiro Shimomura, Mikiyoshi Umehara, Hiroyuki Kasahara (Vegetative development)

Poster # 56 Endogenous ent-kaurenoic acid-metabolite regulates the differentiation of *Physcomitrella patens* Hiroshi Kawaide, Sho Miyazaki, Mariho Hara, Tadao Asami, Masatoshi Nakajima (Hormone metabolism)

Poster # 57 Endogenous Phytohormone Accumulation in the Cecidogenic Insects of *Solidago altissima* Peter Andreas, Neil Emery (Biotic interaction)

Poster # 58 Environmental regulation of the strigolactone pathway in *petunia* Carla Oplaat, Bart Janssen, Revel Drummond, Luke Luo, Kimberley Snowden, Susan Ledger (Vegetative development)

Poster # 59 Ethephon versus AVG response on sugarcane ripening: sucrose yield, growth, and hormonal status Camila Cunha, Marcelo Menossi, Marcelo Silva, Claudiana Santos (Chemical biology)

Poster # 60 Evaluating the target selectivity of two new auxin herbicides Jared Bell, Paul Schmitzer, Justyna Prusinska, Mussa Quareshy, Veselina Uzunova, Richard Napier (Hormone perception)

Poster # 61 Evolution of biosynthetic gene clusters of diterpene phytoalexins in rice Morifumi Hasegawa, Matthew Shenton, Nori Kurata, Koji Miyamoto, Hisakazu Yamane, Kazunori Okada, Hiroshi Kawaide, Tomonobu Toyomasu, Wataru Mitsuhashi (Biotic interaction)

Poster # 62 Exogenous nitric oxide mitigates paraquat toxicity in *Brassica napus* L. seedlings through the modulation of antioxidant defense and glyoxalase systems Mirza Hasanuzzaman, Hirosuke Oku, Masayuki Fujita (Abiotic stress)

Poster # 63 Exploring regulatory network of rice tiller angle through dynamic transcriptome analysis of shoot gravitropism Ning Zhang (Hormone genomics)

Poster # 64 Exposure brassinosteroid and brassinosteroid mimics continually improve photosynthesis in rice subjected to heat stress Weerasin Sonjaroon, Jutiporn Thussagunpanit, Kanapol Jutamanee, Lily Kaveeta, Ornusa Khamsuk, Apichart Suksamrarn (Abiotic stress)

Poster # 65 Expression patterns of gibberellin and jasmonate signaling genes during wheat seed germination Nguyen Nguyen-Tran, Belay Ayele (Hormone signaling)

Poster # 66 F-Box Protein as Signal Transducer of Plant Growth Regulators - A Review Nairanjana Bera (Hormone signaling)

Poster # 67 Feedback regulation of YUCCA gene expression in Auxin biosynthesis through SCF^{TIR1/AFB} complex Shin Takato, Akiko Sato, Masashi Suzuki, Yusuke Kakei, Ken-ichiro Hayashi, Ayako Nakamura, Kazuo Soeno, Yukihisa Shimada (Hormone signaling)

Poster # 68 Functional analysis of CLE16 and CLE17 in Arabidopsis using the CRISPR/Cas9 system Chie Shimaoka, Yasuka Yamaguchi, Shinichiro Sawa, Takashi Ishida (Hormone signaling)

Poster # 69 Functional Analysis of Cytokinin-Dependent Targets of Cytokinin Response Factor 6 Ariel Hughes, Alyssa Parish, Paul Cobine, Aaron Rashotte, Paul Zwack (Hormone signaling)

Poster # 70 Functional analysis of hormone transporting NRT1/PTR family (NPF) proteins Takafumi Shimizu, Gang-Su Hyon, Hirofumi Nakagami, Mitsunori Seo, Hidenori Matsui (Hormone transport)

Poster # 71 Functional studies of brassinosteroid-induced anthocyanin accumulation in plant responses to low N stress Jian Liang, Junxian He (Abiotic stress)

Poster # 72 Functions of carotenoid cleavage dioxygenase 8 in Micro-Tom Yoshihiro Okabe, Tohru Ariizumi, Hiroshi Ezura, Shoko Hasegawa, Mikiyoshi Umehara (Hormone Interactions)

Poster # 73 Fungal derived CKs and their role in the Ustilago maydis- Zea mays pathosystem. Erin Morrison, RJ Neil Emery, Barry Saville (Biotic interaction)

Poster # 74 GA-3 signaling: ubiquitin-proteasome system allows plant growth through breakdown of DELLA proteins Je-an Cedric Cruz (Hormone signaling)

Poster # 75 Genetic approaches to studying IPyA-independent routes of auxin biosynthesis. Anna Stepanova, Javier Brumos, Jeonga Yun, David Bullock, Jose Alonso (Hormone metabolism)

Poster # 76 Gibberellin 3-oxidase 1 is essential for pollen maturation in Rice Kyosuke Kawai, Sayaka Takehara, Makoto Matsuoka, Miyako Ueguchi (Tanaka) (Hormone metabolism)

Poster # 77 Gibberellins increase seed sink strength in *Pisum sativum* L. Kosala Waduthanthri, Jocelyn Ozga, Harleen Kaur, Dennis Reinecke (Reproductive development)

Poster # 78 High throughput chemical screening using an Arabidopsis ShHTL7 system to identify strigolactone signaling agonists Shigeo Toh, Asrinus Subha, Duncan Holbrook-Smith, Peter McCourt (Chemical biology)

Poster # 79 Identification of a sorgomol synthase, that converts 5-deoxystrigol to sorgomol in sorghum Hideyuki Suzuki, Masaharu Mizutani, Shunsuke Ishiwa, Hirosato Takikawa, Yukihiko Sugimoto (Hormone metabolism)

Poster # 80 Identification of carlactonoic acid methyltransferase in Arabidopsis Kohki Akiyama, Yuta Onozuka, Naoki Kitaoka, Takaya Kisugi, Kiyoshi Mashiguchi, Yoshiya Seto, Shinjiro Yamaguchi (Hormone metabolism)

Poster # 81 Identification of essential amino acid residues in KAI2/HTL in Arabidopsis Tomoki Akatsu, Yu Morimoto, Yoshiya Seto, Kiyoshi Mashiguchi, Shinjiro Yamaguchi (Hormone perception)

Poster # 82 Identification of novel regulators of the auxin biosynthesis during embryo development in Arabidopsis Souad Mroue, Hélène Robert Boisivon (Reproductive development)

Poster # 83 Identification of strigolactone-response genes and their interactions with cytokinin and decapitation in the regulation of shoot branching Stephanie Kerr, Milos Tanurdzic, Christine Beveridge (Hormone signaling)

Poster # 84 Identifying phytohormones involved in metal-specific root architecture responses Stefanie De Smet, Tony Remans, Jaco Vangronsveld, Ann Cuypers (Abiotic stress)

Poster # 85 Impact of hormones on cell death induced by cellulose biosynthesis inhibitors Fatima Awwad, Nathalie Beaudoin (Hormone signaling)

Poster # 86 In vivo physiological responses in one-year-old Merwillia plumbea originally treated with different cytokinins Stephen Amoo, Karel Dolezal, Mack Moyo, Adeyemi Aremu (Hormones & biotechnology)

Poster # 87 Inducing effect of low molecular weight nitrogen-containing heterocyclic compounds on direct shoot organogenesis of *Linum usitatissimum* L. in vitro Oleg Bayer, Alla Yemets, Yaroslav Blume, Victoria Tsygankova, Yaroslav Andrushevich, Vladimir Sergeevich Brovarets (Hormones & biotechnology)

Poster # 88 Insect-producing auxin involved in insect gall induction Yoshihito Suzuki, Hiroyoshi Suzuki, Chiaki Yokohama, Shinji Nagata, Tadao Asami (Hormone metabolism)

Poster # 89 Interactions between ethylene, gibberellins, and brassinosteroids in the development of rhizobial and mycorrhizal symbioses of pea James Reid, Eloise Foo, Erin McAdam, James Weller (Biotic interaction)

Poster # 90 Investigating SMAX1 Degradation in Response to Karrikins and Strigolactones Nicholas Morffy, David Nelson (Hormone signaling)

Poster # 91 Investigating the role of XERICO in GA-ABA crosstalk during germination and stress response Eliana Vonapartis, Carina Carianopol, Sonia Gazzarrini (Abiotic stress)

Poster # 92 Jasmonates biosynthesis in *Arabidopsis* seeds is distinct from its wound-induced pathway in leaves Ehsan Khodapanahi, Eiji Nambara (Hormone metabolism)

Poster # 93 Jasmonoyl-L-isoleucine is required for the production of a flavonoid phytoalexin but not diterpenoid phytoalexins in ultraviolet-irradiated rice leaves Kazunori Okada, Moritoshi Iino, Koji Miyamoto, Isami Enda, Toshiki Okada, Yumiko Sato, Kohei Watanabe, Tomoko Sakazawa, Emi Yumoto, Kyomi Shibata, Masashi Asahina, Takao Yokota, Hisakazu Yamane (Hormone signaling)

Poster # 94 Karrikin signaling in arbuscular mycorrhiza development Trevor Wang, Samy Carbonnel, Markus Kolodziej, Veronica Basso, Maximilian Griesmann, Caroline Gutjahr (Biotic interaction)

Poster # 95 Karrikin-based degradation system as a tool to identify KL Aashima Khosla, David Nelson (Hormone signaling)

Poster # 96 Karrikins delay soybean seed germination by mediating abscisic acid and gibberellin biogenesis under shaded conditions Yong Meng, Kai Shu (Hormone metabolism)

Poster # 97 MAK2 sets up the pace of the root gravity response by controlling PIN2 trafficking Maria del Mar Marquès-Bueno, Laia Armengot, Thomas Stanislas, Matthieu Plattre, Vincent Bayle, Yvon Jaillais (Hormone signaling)

Poster # 98 Mechanism of polyamine-induced aluminum toxicity tolerance in mung bean plants: A study on antioxidant defense and methylglyoxal detoxification systems Mirza Hasanuzzaman, Kamrun Nahar, Masayuki Fujita (Abiotic stress)

Poster # 99 Mode of action of a gibberellin mimic, AC94377, in *Arabidopsis* Kai Jiang, Masato Otani, Hiroaki Shimotakahara, Jun-min Yoon, Seung-Hyun Park, Tsuyoshi Ohta, Hidemitsu Nakamura, Masatoshi Nakajima, Tadao Asami (Chemical biology)

Poster # 100 Molecular basis for ENOYL-COA HYDRATASE2 roles in IBA-to-IAA Conversion David Korasick, Samantha Powers, Joseph Jez, Lucia Strader (Hormone metabolism)

Poster # 101 Nanoparticle effect on phytohormone dynamics and transcriptome of *Arabidopsis* plants Premysl Landa, Petre Dobrev, Sylva Prerostova, Vojtech Knirsch, Alena Gaudinova, Tomas Vanek (Abiotic stress)

Poster # 102 New lead compounds for regulating ethylene signaling Hiroko Shimizu-Yumoto, Masayoshi Nakayama, Hiroki Hayase, Masashi Suzuki, Tadao Asami, Nobutaka Kitahata, Kazuyuki Kuchitsu (Chemical biology)

Poster # 103 NIN-LIKE PROTEIN 8 regulates ABA catabolism during nitrate- promoted seed germination in *Arabidopsis* Masanori Okamoto, Dawei Yan, Vanathy Easwaran, Vivian Chau, Eiji Nambara (Hormone metabolism)

Poster # 104 Novel roles of *Arabidopsis* molybdenum cofactor sulfurase ABA3 in environmental stress responses Shunsuke Watanabe, Yuji Sawada, Masami Yokota Hirai, Mitsunori Seo (Abiotic stress)

Poster # 105 Nucleoside N-ribohydrolases and adenosine kinases in maize (*Zea mays*) David Zalabák, Ondřej Plíhal, David Kopečný, Radka Končítíková, Eva Hájková, Martina Kopečná, Armelle Vigouroux, Solange Moréra (Hormone metabolism)

Poster # 106 Nutrient acquisition strategies are allosterically regulated by a conserved quorum-sensing molecule to prime and modulate xylem pericycle pole cells for lateral root development Jens Kossmann, James Lloyd, Margaretha Van Der Merwe, David Secco (Vegetative development)

Poster # 108 Omic approaches to shed light on apple fruit development and ripening Agnes Gacel, Sylvain Guyot, Mirko Moser, Elisa Asquini, Azeddine Si-Ammour, Mickaël Maucourt, Duyen Prodhomme, Annick Moing, Javier Miret, Sergi Munne-Bosch, Francesca Populin, Giulia Eccher, Alessandro Botton (Reproductive development)

Poster # 109 On the presence of nosF gene in the four aquatic and terrestrial Nostoc strains revealing antifungal and trypsin inhibitor activity Ramezan-Ali Khavari-Nejad, Taher Nejadsattari (Chemical biology)

Poster # 110 OsHRT3, a high temperature responsive transcription factor, is involved in pre-harvest sprouting in rice Hua Zhang, Min Yu, Ying Zhu (Reproductive development)

Poster # 111 Overexpression of bacterial halogenases in Arabidopsis thaliana to generate new chlorindol-3-acetic acids Lorenzo Caputi, Sarah E. O'Connor, Antje Walter, Jutta Ludwig-Müller (Hormone Interactions)

Poster # 112 Phosphorylation of FUSCA3 by SnRK1 is required for reproductive development and seed vigor at high temperatures in Arabidopsis Allen Tsai, Aaron Chan, Carina Carianopol, Kresanth Varatharajah, Sonia Gazzarrini (Abiotic stress)

Poster # 113 Physiological role of strigolactones in rice leaves Akira Oikawa, Shinjiro Yamaguchi, Mikiyoshi Umehara, Yusuke Yamada, Koichiro Shimomura, Kazuki Saito (Hormone Interactions)

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Victoria University in U of T

Venue map



VICTORIA UNIVERSITY
IN THE UNIVERSITY OF TORONTO



Golding Student Centre (GC)
(150 Charles St. W, M5S 1K9)
All poster sessions

Isabel Bader Theater (BT)
(93 Charles St W, M5S 1K9)
All plenary sessions
Concurrent sessions
1A, 2A, 3A, 4A, 5A

Victoria College Bldg. (VC)
(91 Charles Street West, M5S 1K7)
Registration
All lunches

Emmanuel College (EM001)
(75 Queen's Park, M5S 1K7)
Concurrent sessions
1C, 2C, 3C, 4C, 5C

Northrop Frye (NF003)
(73 Queen's Park Crescent
East, M5S 1K7)
Concurrent sessions
1B, 2B, 3B, 4B, 5B

Poster Floor Plan at Goldring Center

Odd numbers – Wed Jun 22nd
Even numbers – Thurs Jun 23rd



VICTORIA UNIVERSITY
IN THE UNIVERSITY OF TORONTO

Posters 49-89 (5:30-7:00PM)
GC-148-Wymilwood Lounge

GOLDRING STUDENT CENTER
150 CHARLES ST. W.
1ST FLOOR
Scale:

Posters 1-48 (5:30-7:00PM)
GC-126-WMC Atrium

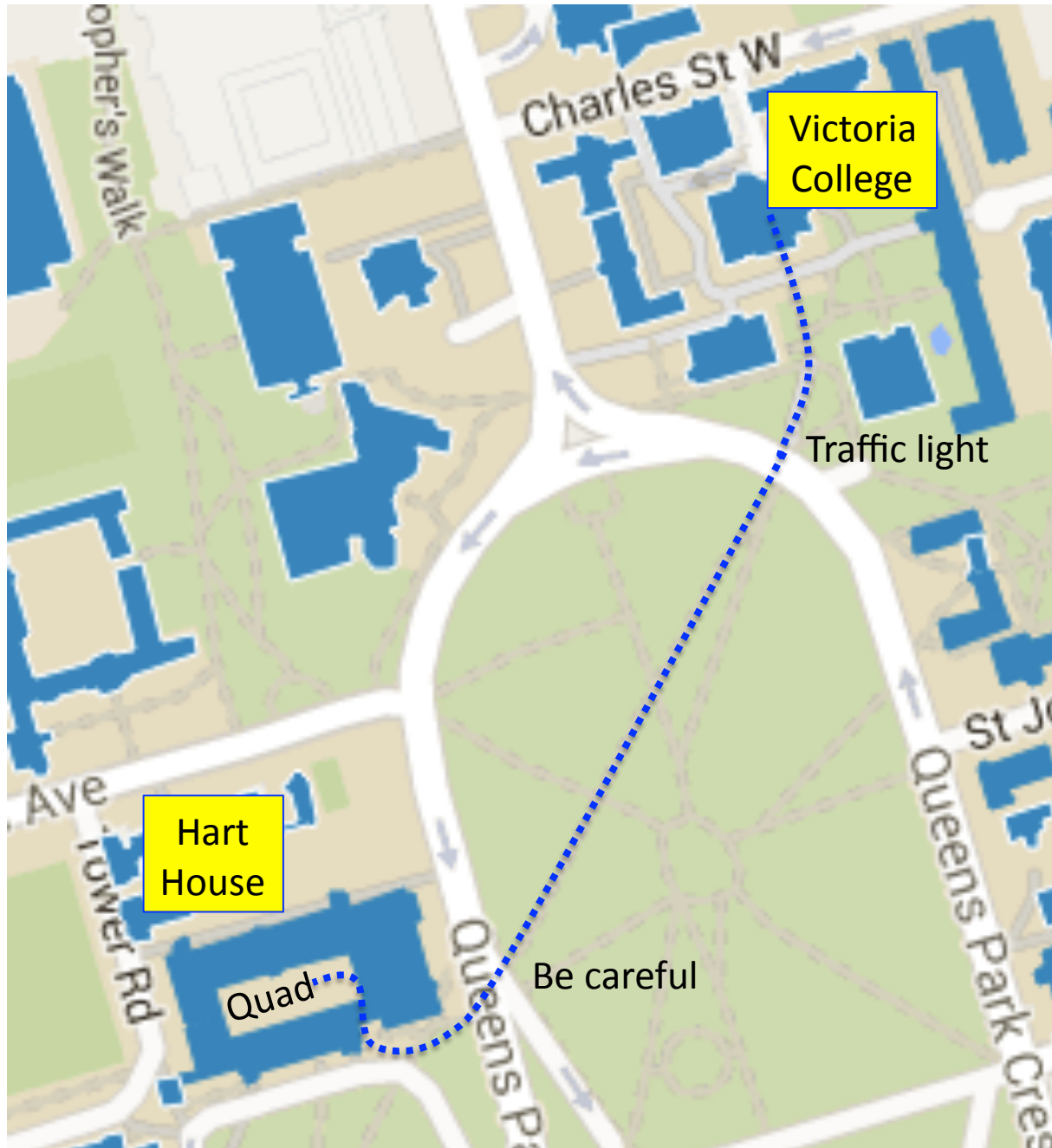
Poster reception (5:30-8:30PM)
NED'S CAFÉ (Bar)

GOLDRING STUDENT CENTER
150 CHARLES ST. W.
2ND FLOOR

Posters 90-138 (5:30-7:00PM)
GC-218-Music Room

Posters 139-179 (5:30-7:00PM)
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Victoria College to Hart House Map



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Toronto, Ontario
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Hart House Map



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2 Meeting & Event Services Office

3 Reading Room

4 Theatre Entrance
(box office and theatre auditorium)

5 CIUT 89.5FM

6 Map Room

7 East Common Room

8 Chapel

9 Quad

10 Lower Gallery

11 Great Hall

E Elevator

W Washroom

A Accessible Entrance

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