

CSPB • SCBV CBA • ABC
**Joint Western
Regional Meeting**
Winnipeg 2017
December 10-12



Canadian Society of Plant Biologists
Société Canadienne de Biologie
Végétale

**Canadian Botanical
Association**

**L'Association Botanique du
Canada**



Sunday December 10, 2017

8 am -5 pm	RNAseq workshop. Room 113 Machray Hall, University of Manitoba
5:30 – 7:30 pm	Mixer meet and greet at Browns Socialhouse, 311 Portage Ave. Sponsored by Life Science Association of Manitoba

Monday December 11, 2017

Violet Fuscia Room, ALT Hotel Winnipeg
310 Donald St, Winnipeg, MB
Chair: Mark Belmonte

8:00 – 9:00 am	Breakfast and Registration
9:00 - 10:00 am	Keynote speaker: Jill Hamilton “Teasing apart the genetic basis of adaptation in a changing climate”
10:00 - 10:15 am	Cassandra Hammond* Phytoglobin over-expression alleviates drought stress in maize seedlings
10:15 – 10:30 am	Xiaojing Wei* Genetic variation of drought-resistance traits and growth in lodgepole pines and white spruces
10:30 – 10: 45 am	Networking Break
10:45 – 11:00 am	Tran Nguyen* Probing the molecular basis of lignin biosynthesis in wheat biomass
11:00 – 11:15 am	Cary Hamel and Melissa Grantham Orchid monitoring and management in Manitoba tall-grass prairie: lessons learned
11:15 – 11:30 am	Michael Becker* Sounding the alarm: characterization of early defense signaling in the canola- <i>L. maculans</i> pathosystem using dual RNA-seq and laser microdissection
11:30 – 11:45 am	David Bird

	The effect of naringenin chalcone on cuticular wax loads in <i>Arabidopsis thaliana</i>
11:45 – 1:00 pm	Lunch
Chair: Jake Stout	
1:00 – 1:30 pm	Plenary speaker: Bruce Ford Sedges of Vietnam: species discoveries and insights into the evolution of <i>Carex</i> (Cyperaceae)
1:30 – 1:45 pm	Shuanglong Huang Phytoglobulin is an important factor in soybean (<i>Glycine max</i>) flooding tolerance
1:45 – 2:00 pm	Haoran Chen* The effect of <i>Frankia</i> spp. and ectomycorrhizal fungi on <i>Alnus viridis</i> ssp. <i>crispa</i> growing in low fertility and saline soil
2:00 – 2:15 pm	Jeremy Morris* Identification and characterization of an <i>Ephedra sinica</i> N-methyltransferase involved in ephedrine biosynthesis
2:15 – 2:30 pm	Geoff Wasteneys COBRA's complicated journey to modulate cellulose production in plants
2:30 – 2:45 pm	Networking Break
Chair: Diana Robson	
2:45 – 3:15 pm	Integrated DNA Technologies CRISPR genome editing technologies
3:15 – 3:30 pm	Maryam Nourimand* Ureide metabolism in response to cadmium treatment in <i>Arabidopsis thaliana</i>
3:30 – 3:45 pm	Austein McLoughlin* The application of RNAi biotechnology to control fungal necrotrophs <i>Sclerotinia sclerotiorum</i> and <i>Botrytis cinerea</i>
3:45 – 4:00 pm	Joey Wan*

	Transcriptome analyses of canola (<i>Brassica napus</i>) treated with the plant growth promoting rhizobacterium <i>Pseudomonas chlororaphis</i> PA23 identifies differential expression of growth and defense related genes
4:00 – 4:15 pm	Diana Robson Pollination ecology in mixed grass prairies
4:15 – 4:30 pm	Mohammed Mira Expression of <i>Arabidopsis</i> class 1 Phytoglobin (<i>AtPgb1</i>) delays death and degradation of the root apical meristem during severe PEG-induced water deficit
4:30 – 6:00 pm	Poster Session Sponsored by Canadian Science Publishing
	<p>Azizah Alharthy* Role of RAE1 in <i>Arabidopsis thaliana</i> heat tolerance</p> <p>Paige Anderson* Effects of low soil nitrogen and salinity on the nitrogen fixing species <i>Shepherdia Canadensis</i></p> <p>Matthew Doering* Identification of candidate genes operating in the piperine biosynthetic pathway of <i>Piper nigrum</i> L.</p> <p>Nathalie Hoffmann* Spatial regulation of laccases and peroxidases during lignification in <i>Arabidopsis thaliana</i></p> <p>Pawanpuneet Rehal* Allelic diversity and expression analysis of <i>abscisic acid insensitive 5</i> with respect to seed dormancy in wheat</p> <p>Jatinder Singh Sangha Physiological mechanisms in near isogenic spring wheat sister lines contributing to differences in grain yield and grain proteins</p> <p>Kenny So* Genetic modulation of cruciferin for the improvement of meal quality in <i>Brassica napus</i></p>

	Anne Worley Short-term limits to reproduction in two species of rewardless slipper orchids (<i>Cypripedium</i>): resources, pollinator abundance, or pollinator preference?
6:00 – 9:00 pm	Reception and Banquet – ALT Hotel Sponsored by the University of Manitoba

Tuesday December 12, 2017

Chair: John Markham

8:00 – 9:00 am	Breakfast
9:00 – 9:30 am	Plenary Speaker: Belay Ayele Molecular aspects of traits of economic importance in wheat
9:30 – 9:45 am	Steven Anderson* Latitudinal trends in pollination success of the rewardless orchid, <i>Cypripedium candidum</i> , and associated changes in the plant and insect community
9:45 - 10:00 am	Steve Whyard Controlling crop pests using RNA interference technologies
10:00 -10:15 am	Deirdre Khan* Profiling the gene expression landscape of canola seed: transcriptional and methylomic analysis of <i>Brassica napus</i> seed development
10:15 -10:30 am	Ian Willick* Discovery of an extraorgan freezing strategy in cold acclimated winter wheat and rye crowns
10:30 -10:45 am	Networking Break
10:45- 11:00 am	Sreedevi Ramachandran* The influence of soil nitrogen level on tomato defense in whiteflies
11:00 -11:15 am	Laryssa Halat* Creating links among signalling pathways: the connection between microtubules and hormones in sustaining cell proliferation
11:15 -11:30 am	Eman Elkhateeb*

	Phytoglobins maintain root meristem function and integrity during hypoxic conditions		
11:30 - 11:45am	John Markham Do high diversity tallgrass prairie plant communities rely on niche partitioning?		
11:45 – 1 pm	Lunch and Awards Presentation Sponsored by the Canadian Society of Plant Biologists, Canadian Botanical Association, and Plant Canada		
1 pm	Tours		
	University of Manitoba Vascular Plant Herbarium	Winnipeg microbrewery	Manitoba Museum collection tour

*student presentation

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