



Manitoba Regional Meeting of the  
Canadian Phytopathological Society  
December 5<sup>th</sup>, 2018

Department of Plant Science, University of Manitoba

Canadian  
Phytopathological  
Society



La Société  
Canadienne de  
Phytopathologie

## Agenda

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**8:30** Registration and coffee

**9:00** Welcome from CPS-MB chair and CPS President

**9:05** Disease updates

### **9:30 STUDENT PRESENTATIONS**

**The essential elements contributing effective defence in *Brassica napus* against *Leptosphaeria maculans*.** C. YANG, AND W. G. DILANTHA FERNANDO. *Department of Plant Science, University of Manitoba, Winnipeg, Manitoba, Canada*

**Tissue specific RNA sequencing of *Brassica napus* in response to *Sclerotinia sclerotiorum* infection.** P.L. Walker, IJ Girad, MG BECKER, S Saikia, TR de Kievit, WGD Fernando, MF Belmonte. *Departments of Biological Sciences (PLW, IJG, MGB, MFB), Microbiology (SS, TdeK), & Plant Science (WGDF), University of Manitoba, Winnipeg MB, Canada.*

**Molecular Management of Fungal Phytopathogens via RNAi.** N. Wytinck, AG McLoughlin, JC Wan, KT Biggar, MF Belmonte, S Whyard, *Department of Biological Sciences, University of Manitoba, MB, Canada*

**Response of indigenous field populations of *Fusarium graminearum* to fungicide application in Manitoba.** S Allen, H Derksen, M Sachs, A Brule-Babel, T Grafenhan. *Department of Plant Science, University of Manitoba, Winnipeg, MB Canada; (SA, MS, AB, TG) Canadian Grain Commission, Winnipeg MB, Canada; (SA, TG) MB Agriculture, Carman, MB Canada (HD)*

**Cross-pathogenicity of *Fusarium graminearum* between soybean and wheat.** Garma N, Gharbi Y, Adam LR, Hafez M, Abdelmagid A, Daayf F *Department of Plant science, University of Manitoba, Winnipeg MB, Canada*

### **10:45 COFFEE BREAK**

### **11:00 STUDENT PRESENTATIONS**

**Detection of Mycotoxins in a Set of Two-row Barley Varieties Infected with *Fusarium graminearum* as Measured by Ultra Performance Liquid Chromatography – Tandem Mass Spectrometer (UPLC-MS/MS).** J. R. TUCKER, A. BADEA, R. BLAGDEN, K. PLESKACH, S. A. TITTEMIER, W. G. D. FERNANDO. *AAFC Brandon, Brandon MB, Canada; Grain Research Laboratory, Canadian Grain Commission, Winnipeg, MB Canada (RB, KP, SAT); Department of Plant Science, University of Manitoba, Winnipeg, MB Canada (JRT, WGDF).*

**Transcriptomic comparison of compatible and incompatible interactions between *Brassica napus* and *Leptosphaeria maculans*** K. R. E. PADMATHILAKE, H. SONAH, Z. ZOU, S. JIA, J.R. TUCKER, A. CARTER, R.R. BELANGER AND W.G. DILANTHA FERNANDO. *Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada; (HS, RRB) Department of Plant Science, Laval University, Québec, Canada; (SJ, PH) Department of Biochemistry and Medical Genetics, University Manitoba, Winnipeg, MB and (AC) Brandon Research and Development Centre, Agriculture and Agri-Food Canada, Brandon MB Canada*

### **11:30 OTHER PRESENTATIONS**

**Molecular analysis of the interaction between white rot pathogen (*Rigidoporus microporus*) and rubber tree (*Hevea brasiliensis*).** Abbot O. Oghenekaro. *Department of Plant Science, University of Manitoba, Winnipeg, Canada, Department of Forest Sciences, University of Helsinki, Helsinki, Finland*

**LmCBP1, a chitin-binding protein, acts as pathogenic factor for the infection of *Leptosphaeria maculans* on *Brassica napus*.** F. Liu, C. Selin, and W. G. Dilantha Fernando; *Department of Plant Science, University of Manitoba, Winnipeg MB Canada*

**12:00 LUNCH and Posters** (served on site)

**13:30 STUDENTS AWARDS**

**13:45 OTHER PRESENTATIONS**

**Rapid detection of *Leptosphaeria maculans* avirulence gene *AvrLm4-7* conferring the avirulence/virulence specificity on *Brassica napus* using a tetra-primer ARMS-PCR.** Z. Zou, F. Liu, W.G. Dilantha Fernando, Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada

**Update on Manitoba horticultural crops disease and insect pests in 2018.** *Vikram BISHT. Crop Industry Branch, Manitoba Agriculture, Carman, Manitoba.*

**“Designer Genes”? Resistance labels as a new management tool to growers to combat Blackleg in Canola.**  
Dilantha Fernando

**14:30 BUSINESS MEETING**

**Posters:**

***Phytophthora sojae* in Manitoba soybean crops: distribution and pathotype identification**

D. L. McLAREN, Y. M. KIM, M. A. HENRIQUEZ, R. L. CONNER, S. F. HWANG, K. F. CHANG, S. E. STRELKOV, B. D. GOSEN, T. L. HENDERSON, T. J. KERLEY AND W. C. PENNER. (*DLM, YMK, TLH, TJK*) AAFC-Brandon, Brandon, MB Canada; (*MAH, RLC, WCP*) AAFC-Morden, Morden, MB, Canada; (*SFH, KFC*) CDCN, Alberta Agriculture and Forestry, Edmonton, AB, Canada; (*SES*) Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Canada; and (*BDG*) AAFC-Saskatoon, Saskatoon, SK, Canada

**Two-year in-depth studies to identify *Fusarium* species causing root rot of soybean (*Glycine max* L.) in Manitoba.**

Y. M. KIM, M. A. HENRIQUEZ, D. L. McLAREN, R. L. CONNER, S. F. HWANG, K. F. CHANG AND S. E. STRELKOV. (*YMK, DLM*) AAFC-Brandon, Brandon, MB, Canada; (*MAH, RLC*) AAFC-Morden, Morden, MB, Canada; (*SFH, KFC*) CDCN, Alberta Agriculture and Forestry, Edmonton, AB, Canada; and (*SES*) Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada