



7th Canadian Workshop
on Fusarium Head Blight

7^e Colloque canadien
sur la fusariose



HOTELS AND RESORTS

Venue: **Ballroom** of the Delta Hotel

350 St. Mary Avenue
Winnipeg, Manitoba
R3C 3J2

FINAL PROGRAM

Sunday, November 27, 2011

- 16:00 - 21:00 Registration desk open - First Floor Foyer
18:00 - 21:00 Poster set-up – Ballroom A
19:00 - 22:00 Reception

Monday, November 28, 2011

- 7:00 - 8:15 Continental breakfast provided
7:00 - 17:30 Registration desk open
7:00 - 10:00 Poster set-up
8:15 Opening remarks Andy Tekauz

Plenary Session: Chair : Jeannie Gilbert

8:30	Marcia McMullen (North Dakota State University, Fargo ND, USA): Unified efforts for solving Fusarium head blight: Progress made, continued challenges.
9:00	Frances Trail (Michigan State University, East Lansing MI, USA): A whole plant/whole fungus look at the <i>Fusarium graminearum</i> -wheat interaction.

9:30 - 10:00 Refreshment break

Session 1: Mycotoxins Chairs: Barb Blackwell, Sheryl Tittlemier

10:00	Genevieve Bondy (Health Canada, Ottawa ON): Effects of chronic dietary mycotoxin exposure on the cancer-prone p53 heterozygous mouse.
10:20	Ken Voss (ARS-USDA, Athens GA, USA):– Current perspectives on <i>Fusarium</i> mycotoxins: fumonisin and deoxynivalenol.
10:40	Abed Zeibdawi (Canadian Food Inspection Agency, Ottawa ON): An overview of CFIA's mycotoxin monitoring program in livestock feeds.
11:00	Paul Hazendonk (University of Lethbridge, Lethbridge AB): Towards understanding the toxicity of DON and its implications.
11:20	Sheryl Tittlemier (Canadian Grain Commission, Winnipeg MB): Distribution of moniliformin and <i>Fusarium avenaceum</i> in Canadian durum wheat.

11:40	Sofia Chulze (Universidad Nacional de Rio Cuarto, Argentina): <i>Fusarium graminearum</i> species complex populations from South America: toxigenic profiles and biocontrol possibilities.
--------------	---

12:00 Lunch – Ballroom

Session 2: Industry and Consumer Affairs I Chair: Michael Brophy	
13:00	Mike Grenier (Canadian Wheat Board, Winnipeg MB): <i>Fusarium</i> and evolving international customer relationships.
13:20	Pat Rowan (BARI-Canada, Inc. Winnipeg, MB): Update on impacts of fusarium head blight to malting barley and brewing industries.
13:40	Joe Girdner (James Richardson International, Winnipeg MB): Update on impacts of fusarium head blight in the grain handling system.
14:00	Robin Morrall (University of Saskatchewan, Saskatoon SK): Saskatchewan-2010: Farmers' Year from Hell. Was Seed the Last Straw?

14:30 Refreshment break

Session 3: Industry and Consumer Affairs II Chair(s): Mike Grenier	
15:00	David Prystupa (Spectrum Agricultural, Pinawa MB): Removal of <i>Fusarium</i> -damaged kernels by an optical sorter.
15:20	Victor Limay-Rios (University of Guelph, Guelph ON): Use of near infrared reflectance spectroscopy for prediction of <i>Fusarium</i> -damaged kernels in corn and winter wheat.
15:40	Lori Oatway (Field Crop Development Centre Alberta Agriculture, Lacombe AB): A novel approach to the development of near infrared reflectance spectroscopy (NIRS) to screen for deoxynivalenol in cereal grains.
16:00	Paul Martin (Unity Scientific LLC): Unity Bomill single seed sorter.

16:30 Poster viewing (authors present) – **Cocktail hour** (Sponsored by BMBRI)

18:30 Dinner on your own



Tuesday, November 29, 2011

7:00 - 8:15 Continental breakfast (Sponsored by Western Grains Research Foundation)

7:00 - 17:00 Registration desk open

Session 4: Epidemiology and Management I Chair: Dilantha Fernando	
8:15	Jasmine Hoover (International Bioresources Research Group for WGRF): A review of agronomic management strategies for fusarium head blight.
8:35	Susanne Vogelgsang (ART, Zurich, Switzerland): On-farm experiments over 5 years in a grain maize/winter wheat rotation: effect of maize residue treatments.
8:55	Henry Olechowski (DOW AgroSciences): Knowledge gained after 10 years of running a fusarium head blight disease nursery in Ontario.
9:15	Emmanuelle Gourdain : (Arvalis, Boigneville, France): A model to predict <i>Gibberella zeae</i> risk.

9:45 Refreshment break

Session 5: Epidemiology and management Chair: Faye Dokken-Bouchard	
10:15	Dilantha Fernando (University of Manitoba, Winnipeg MB): What do we know of the <i>Fusarium graminearum</i> chemotypes, their epidemiology, genetics, and infection process in Canada?
10:35	Art Schaafsma (University of Guelph, Ridgetown ON): The use of the DONCast system in Europe and in south-western Ontario, Canada.
10:55	Guy Ash (Weatherfarm, Winnipeg MB): Update on fusarium head blight forecasting.
11:15	Harold Brown (Bayer Crop Science): Update on fungicides against fusarium head blight in wheat.
11:30	Neil Galbraith (Farmer, Minnedosa MB): My perspective on fusarium head blight, the impact it has on my farm, and the management tools I have available.

11:45 Lunch – Ballroom (Sponsored by BASF)

Session 6: Genomics and Genetics Chairs: François Eudes, Linda Harris	
13:15	Christian Barreau (INRA-MycSA, France): The induction of deoxynivalenol biosynthesis in <i>Fusarium graminearum</i> is subjected to a basal control exerted by various cellular regulators.
13:35	Rubella Goswami (Dupont Crop Protection, USA): Association of <i>Fusarium graminearum</i> with legume root rots and fungal gene expression during disease development.
13:55	Nora A. Foroud (AAFC-LRC, Lethbridge AB): Signalling mechanisms mediating resistance and susceptibility to fusarium head blight (FHB) in wheat.
14:15	Thérèse Ouellet (AAFC-ECORC, Ottawa ON): Wheat genes induced by DON: fusarium head blight susceptibility factors.
14:30	Khaled Al-Taweel (University of Manitoba): Transcriptome profiling of differentially expressed genes of wheat after infection with different <i>Fusarium graminearum</i> chemotypes.

14:45 Refreshment break

Session 7: Pathogen Dynamics Chair: Tom Gräfenhan	
15:15	Tom Gräfenhan (Canadian Grain Commission, Winnipeg MB) & Keith Seifert (AAFC-ECORC, Ottawa ON): Genetic diversity of <i>Fusarium</i> on grains: Changing species concepts and their impact on molecular diagnostics.
15:35	Ingerd Skow Hofgaard (Bioforsk, Ås, Norway): Recent changes in the prevalence of <i>Fusarium</i> and mycotoxins in Norwegian Cereals.
15:55	Tigst Demeke (Canadian Grain Commission, Winnipeg MB): Development and utilization of TaqMan real-time PCR assay for assessment of <i>Fusarium graminearum</i> in wheat and barley.
16:15	Tapani Yli-Mattila (University of Turku, Finland): Molecular identification, detection and quantification of toxigenic <i>Fusarium</i> species in cereals.

16:35	Theo van der Lee (Plant Research International, Wageningen, The Netherlands): Identification of <i>Fusarium</i> pathogens of wheat using TaqMan real-time PCR and Luminex.
--------------	---

18:30 Dinner/Banquet



Wednesday, November 30, 2011

7:00 - 8:15 Hearty breakfast provided

7:00 - 12:00 Registration desk open

Session 8: Resistance Breeding I <i>Chairs: Aaron Beattie, Jennifer Mitchell Fetch</i>	
8:15	Bill Legge (AAFC-BRC, Brandon MB): Update on improving fusarium head blight resistance in barley for western Canada.
8:35	Gopal Subramaniam (AAFC-ECORC, Ottawa ON): Novel strategies to combat fusarium head blight.
8:55	Lily Tamburic-Ilincic (University of Guelph, Ridgetown ON): Progress in breeding fusarium head blight-resistant winter wheat.
9:15	Aaron Beattie (University of Saskatchewan, Saskatoon SK): Real-time quantitative PCR in oat fusarium head blight resistance breeding.
9:35	Steve Haber (AAFC-CRC, Winnipeg MB): On the 'Express Route' to fusarium head blight resistance in durum wheat.

10:00 Refreshment break

Session 9: Resistance Breeding II <i>Chair(s): Aaron Beattie, Jennifer Mitchell Fetch</i>	
10:30	Richard Cuthbert (AAFC-SPARC, Swift Current SK): Are QTLs for fusarium head blight response additive?
10:45	Pavel Horcicka (SELGEN, Sibrina, Czech Republic): Molecular markers in fusarium head blight resistance wheat breeding programmes in Czech Republic.
11:00	Andre Comeau (AAFC-CRDSGC, Quebec QC): One quick solution to fusarium head blight problems: the systemic approach.
11:15	George Fedak (AAFC-ECORC, Ottawa ON): Application of molecular-assisted markers for development of white seeded wheat resistant to fusarium head blight.
11:30	Akos Mesterházy (Cereal Research Non-Profit Co., Szeged, Hungary): Breeding wheat with resistance to fusarium head blight: concepts, methods, and results.

12:00 Lunch for CWS Registrants and change over to 1st Canadian Wheat Symposium