

AGENDA

2014 Sclerotinia Initiative Annual Meeting January 22-24, 2014

Wednesday – January 22, 2014

6-8 pm Poster Session/Reception
(posters are displayed for the entire meeting) **McIntosh/Jonathan Room**

Thursday – January 23, 2014

7:15 am Registration/Continental Breakfast **McIntosh/Jonathan Room**

8:15 am Welcome, Introductions & Meeting Charge – **Bill Kemp, USDA-ARS, Fargo, ND**

8:25 am Welcome and Update from the Northern Plains Area – **Mickey McGuire, USDA-ARS, Fort Collins, CO**

8:35 am ARS Office of National Programs Update – **Roy Scott, USDA-ARS, Beltsville, MD**

8:45 am **Featured Speaker**
Mycroviruses, hypovirulence, and exploration to control Sclerotinia diseases –
Daohong Jiang, College of Plant Science & Technology, Huazhong Agricultural University, Wuhan, People's Republic of China

10:00 am Discussion Break **Ballroom Foyer**

Sclerotinia Research Activities – Session 1 **Fireside Room**
Moderator – Jim Meyers, Oregon State University, Corvallis, OR

10:30 am *Sclerotinia trifoliorum* infecting chickpea: Epidemiology and population genetics –
Weidong Chen, USDA-ARS, Pullman, WA

10:45 am Sources of white mold resistance derived from wide crosses in common bean and
progress in characterization of relevant pathogen isolates – **James Steadman, University
of Nebraska, Lincoln, NE**

11:00 am Identification of resistance and pathogenicity genes associated with *Sclerotinia
sclerotiorum* infection using next generation sequencing – **Rubella Goswami, DuPont
Crop Protection, Newark, DE & Luis del Rio, North Dakota State University, Fargo, ND**

11:15 am Characterization of growth, pathogenicity, and apothecial development of *Sclerotinia
sclerotiorum* isolates from different geographic regions in contrasting temperature
regimes – **Glen Hartman, USDA-ARS, Urbana, IL**

11:30 am High density genotyping of a diverse population of *Sclerotinia sclerotiorum* – **Robert
Brueggeman & Berlin Nelson, North Dakota State University, Fargo, ND**

11:45 Working Lunch

McIntosh/Jonathan Room

***Sclerotinia* Research Activities – Session 2**

Fireside Room

Moderator – Michael Wunsch, North Dakota State University, Carrington, ND

- 1:00 pm Strategies to identify functionally significant defense genes against *Sclerotinia sclerotiorum* – **Daina Simmonds Agriculture and Agri-Food Canada, Ottawa, ONT**
- 1:15 pm Identifying and verifying genes for defense to *Sclerotinia* – **Steven Clough, USDA-ARS, Urbana, IL**
- 1:30pm Enhancing soybean for resistance to *Sclerotinia* stem rot – **Dechun Wang, Michigan State University, East Lansing, MI**
- 1:45 pm Fine mapping of loci for resistance to *Sclerotinia* stem rot in the perennial soybean *Glycine latifolia* – **Leslie Domier, USDA-ARS, Urbana, IL**
- 2:00 pm Development and evaluation of canola breeding populations for resistance to *Sclerotinia sclerotiorum* – **Luis del Rio, North Dakota State University, Fargo, ND**
- 2:15 pm Identification of key regulators of host resistance and pathogen virulence in the *Sclerotinia sclerotiorum*-*Arabidopsis* pathosystem – **Zhonglin Mou & Jeffrey Rollins, University of Florida, Gainesville, FL**
- 2:30 pm Break & Poster Session

McIntosh/Jonathan Room

***Sclerotinia* Research Activities – Session 3**

Fireside Room

Moderator – Lili Qi, USDA-ARS, Fargo, ND

- 3:00 pm Expression profiling of the pea-*Sclerotinia sclerotiorum* interaction for genomics-assisted breeding – **Martin Chilvers, Michigan State University, East Lansing, MI**
- 3:15 pm Characterization and validation of two distinct mechanisms for partial resistance to *Sclerotinia sclerotiorum* in pea – **Kevin McPhee, North Dakota State University, Fargo, ND; Lyndon Porter USDA-ARS, Prosser, WA**
- 3:30 pm White mold resistance-QTL: Identification, interactions, and fine mapping in common bean – **Phil Miklas, USDA-ARS, Prosser, WA; James Myers, Oregon State University, Corvallis, OR; Phil McClean, North Dakota State University, Fargo, ND**
- 4:00 pm Pyramiding QTL for white mold resistance in Mesoamerican beans – **James Kelly, Michigan State University, East Lansing, MI**
- 4:15 pm Metabolomic profiles associated with resistance to *Sclerotinia sclerotiorum* in dry edible beans – **Adam Heuberger & Mark Brick, Colorado State University, Ft. Collins, CO**
- 4:30 pm Wrap-up & Adjourn (Dinner on your own)

Friday – January 24, 2014

7:00 am Steering Committee Breakfast Meeting **Beacon Conference Room**

7:15 am Continental Breakfast **McIntosh/Jonathan Room**

***Sclerotinia* Research Activities – Session 4** **Fireside Room**

Moderator – James Kelly, Michigan State University, East Lansing, MI

8:30 am Discovery and use of novel sources of resistance to head rot and stalk rot in cultivated sunflower and wild *Helianthus* – **Thomas Gulya, USDA-ARS, Fargo, ND**

8:45 am Use of a transformation system in sunflower for *Sclerotinia* resistance studies – **John Finer, The Ohio State University, Wooster, OH**

9:00 am Transferring *Sclerotinia* resistance genes from wild *Helianthus* species into cultivated sunflower – **Chao-Chien Jan, USDA-ARS, Fargo, ND**

9:15 am Deployment of novel sources of *Sclerotinia* resistance in sunflower – 2013 progress – **Lili Qi, USDA-ARS, Fargo, ND**

9:30 am Association mapping of *Sclerotinia* stalk rot resistance in domesticated sunflower plant introductions – **Brent Hulke, USDA-ARS, Fargo, ND**

9:45 am Facilitating management of *Sclerotinia* head rot of sunflowers through screening hybrids for resistance and evaluating fungicides for efficacy – **Michael Wunsch, North Dakota State University, Carrington, ND**

10:00 am Discussion Break **Ballroom Foyer**

***Sclerotinia* Initiative Research: The next steps**

Moderator – Bill Kemp, USDA-ARS, Fargo, ND

Fireside Room

10:30 am **Guest Speaker**
Strategic Planning & Reporting Progress – **Rich Wilson, USDA-ARS, Office of National Programs–Retired, Raleigh, NC**

11:00 am Strategic Plan Discussion – Writing Team Input/Revisions

11:30 am Agreements Update – Marcie Currie-Gross, USDA-ARS, Fort Collins, CO

11:45 am Working Lunch **McIntosh/Jonathan Room**

1:00 pm Assignment of Additional Tasks & Wrap-up of Initiative Business

2:00 pm Adjourn (Travel Safely!)