

Program Schedule

Sunday, June 28

6:00-9:00 **Opening Reception at Old Post Office, Downtown, Pullman**

Monday, June 29

8:00 Welcome - Moderator: Fred Muhelbauer

Michael Kahn, Associate Director, ARC, CAHNRS, WSU
 Tim McGreevy, Executive Director, USA Dry Pea and Lentil Council
 Gail Wisler, National Program Leader, USDA-ARS
 Bernard Tivoli, INRA, Co-organizer of Ascochyta 2006
 Weidong Chen, USDA-ARS, Local Organizing Committee

Session I Pathogen Biology - Moderator: Alain Baranger

- 8:30 *Didymella, Mycosphaerella, Ascochyta, and Phoma: what a tangled web has been woven*
J. Rogers
- 9:15 *Severity and distribution of Phoma koolunga on ascochyta blight-affected field peas in south eastern Australia*
J.A. Davidson, A. McKay, M. Kryszynska-Kaczmarek, and E.S. Scott
- 9:35 *Identification of Ascochyta and Phoma species on clover: Comparison with other species from Fabaceae*
 N. Ghat, N. Boumedienne, and Z. Bouznad
- 9:55 *Temperature adaptation and ecological divergence of the fungal pathogen Didymella rabiei on sympatric wild and domesticated chickpea*
O. Frenkel, T.L. Peever, M.I. Chilvers, H. Ozkilinc, C. Can, D. Shtienberg, A. Sherman, S. Abbo
- 10:15 *Did the development of Ascochyta blight on winter and spring pea (Pisum sativum) in France depend on the same populations of Mycosphaerella pinodes?*
C. Le May, M. Guibert, A. Leclerc, and B. Tivoli

10:35 Break

Session II Host Resistance I (Breeding) - Moderator: George Vandemark

- 10:50 *Breeding for ascochyta resistance in desi chickpea*
P. Gaur, S. Pande, T. Khan, S. Tripathi, M. Sharma, H. Clarke, JS Sandhu, L. Kaur, D. Basandrai, A. Basandrai, CLL Gowda1 and KHM Siddique
- 11:20 *Genetic enhancement of chickpea for Ascochyta blight resistance*
R. S. Malhotra, M. Imtiaz, S. Ahmed, and S. Kabbabeh

11:50 Group Photo

12:00 Lunch

Session II Host Resistance I (Breeding) cont.

- 1:00 *Use of germplasm for Ascochyta blight resistance in pea and lentil*
K.E. McPhee and A. Sarker
- 1:30 *Breeding for improved ascochyta blight resistance in pea*
T.D. Warkentin, S. Banniza, B. Tar'an, A. Vandenberg, and K. Bett
- 1:50 *Control of partial resistance to Mycosphaerella pinodes in pea*
A. Baranger, H. Miteul, G. Deniot, R.Lecoite, I.Lejeune-Hénaut, A.Lesné, F.Mohamadi, G.Morin, C.Onfroy, M.L.Pilet-Nayel, B.Tivoli
- 2:10 *Exploration of resistance to Mycosphaerella blight in wild Pisum spp. to develop resistant field pea germplasm*
G. Valarmathi, S. Banniza, B. Tar'an, and T.D. Warkentin
- 2:30 *Enhancement of black spot resistance in field pea*
K. Adhikari, T. Khan, I. Pritchard and T. Leonforte
- 2:50 *Mapping of Ascochyta blight resistance in chickpea*
L. Buchwaldt, G.K. Kishore, A.G. Sharpe, C. Sidebottom, H. M. Booker, B. Tar'an

3:10 Break**Session III Bob Henson Award - Student Competition (Oral Component)****Moderator: Bernard Tivoli****Evaluation Committee: Jenny Davidson (chair), Lone Buchwaldt, and Pooran Gaur.**

- 3:30 *A comparison of phenotypic and marker-assisted selection for Ascochyta blight resistance in chickpea*
P. Castro, M.D. Fernandez, T. Millan, J. Gil and J. Rubio
- 3:38 *Partial cloning of two polyketide synthase genes associated with pathogenicity of Ascochyta rabiei*
J. A. Delgado, S. W. Meinhardt, S. G. Markell, and R. S. Goswami
- 3:46 *Cloning and characterization of anonymous regions of Ascochyta lentis and A. fabae genomes and suitability of these regions for phylogenetic analysis of Ascochyta species*
J.E. Stewart, R.N. Attanayake, E.N. Njambere, T. Drader, and T.L. Peever
- 4:00 Poster session & Evening Reception at Emsinger Pavilion– Moderator: Weidong Chen**
Poster session
Bob Henson Award – Student Competition (Poster Component)
- 6:00 Dinner on your own**

Tuesday, June 30**Session IV Disease Management - Moderator: Fred Muehlbauer**

8:00 *Over forty years on six continents researching Ascochyta diseases of food legumes*
W.J. Kaiser

9:00 *Ascochyta blight management in Australian pulse crops*
J.A. Davidson

9:20 *Management of Ascochyta blight of chickpea in India*
A.K.Basandrai, L.Kaur, D.Basandrai, S.Pandey, R.S.Malhotra, P.M.Gaur and A. Sarker

9:40 *Management of Ascochyta blight of chickpea in northern NSW*
K.J. Moore, K.D. Lindbeck, P. Nash, G. Chiplin and E. J. Knights

10:00 Break

10:20 *Management of Ascochyta diseases in North America*
R. Morrall (Presented by T. Warkentin)

10:35 *Fungicide trials for managing chickpea Ascochyta blight*
W. Chen

10:45 *On-Farm Tests With Growers for Fungicide Comparisons*
L. Smith

11:10 *Panel discussion*
Jenny Davidson, Australia
Mike DeVoe, USA
Ashutosh Sarker, India
Larry Smith, USA

11:45-6:00 Field Tour – Moderator: Todd Scholz

WSU Spillman Agronomy Farm
USDA-ARS Grain Legume Genetics and Physiology Research Unit
Ascochyta blight nursery
Fungicide trials
Chickpea, lentil and pea breeding program

Clark Farms (Chickpeas)
Mader Farms (Lentils and Peas)

5:00 Kamiak Butte
Donor Appreciations
Mexican BBQ Dinner

9:00 Return to Pullman

Wednesday, July 1**Session V Molecular Biology – Moderator: Tobin Peever**

- 8:00 Functional genomics of Dothideomycetes; applications to legume pathogens
R. Oliver
- 9:00 *PR proteins in lentil: isolation and expression in response to Ascochyta lentis and signalling compounds*
B.M. Mustafa, D.T.H. Tan, P.W.J. Taylor, and R. Ford
- 9:20 *Applications of suppression subtractive hybridization (SSH) in identifying differentially expressed transcripts in Ascochyta rabiei*
D. White, G. Vandemark, and W. Chen
- 9:40 *Induced Mutations for Ascochyta blight Resistance in Chickpea*
T.M. Shah, J.I. Mirza, B. Manzoor Atta, H. Ali, S.Sarwar Alam and M. Ahsanul Haq
- 10:00 *SCARS markers linked to Ascochyta rabiei in chickpea (SCAE19336, SCM02935 and SCY17590): expression studies and homologies with EST and related sequences*
M. Iruela, F. Piston, F. Barro, J. Gil, T. Millan
- 10:20 *Understanding Ascochyta blight resistance in chickpea using molecular genetics and genomic approaches*
P.N. Rajesh, M.O'Bleness, B. Till, D. Cook, S. Henikoff, B. Roe, W. Chen, F.J.Muehlbauer
- 10:40 Break**

Session VI Host Resistance II (Genetics) – Moderator: Tom Warkentin

- 11:00 *Pathogenesis-related genes and genetic variation in potential resistance genes of major European legumes: The LegResist project*
G. Kahl, P. Winter, R. Horres, B. Rotter, R. Jüngling
- 11:30 *Pyramiding resistance in chickpea to Ascochyta rabiei*
P.W.J. Taylor, X.Y. Bian, and R. Ford
- 12:00 Lunch**
- 1:00 *Pathotype specific seedling and adult-plant resistance sources to Ascochyta rabiei in chickpea*
A.K. Basandrai, D. Basandrai, S. Pande, P.M. Gaur, S.K. Thakur, H.L. Thakur and M. Sharma
- 1:20 *Phenotypic and molecular characterization of chickpeas for sources of resistance to Ascochyta blight*
M. Imtiaz, R.S. Malhotra, S. Ahmed, A. Khalifeh, M. van Ginkel and S. Kabbabeh
- 1:40 *Breeding for resistance to ascochyta blight in chickpea of India: Current status*
J.S. Sandhu, S.K. Gupta, Livinder Kaur, M.M. Verma and Gurdip Singh

Session VI Host Resistance II (Genetics) cont.

2:00 *Biochemical and molecular reach for disease resistance to chickpea blight caused by *Ascochyta rabiei**
S. S. Alam, T. M. Shah, B. M. Atta and H. Ali

2:20 *Genetics of resistance to ascochyta blight in chickpea*
 R. Bhardwaj, J.S. Sandhu, Livinder Kaur, S. K. Gupta and P.M. Gaur

2:40 Break

Session VII Epidemiology- Moderator: Paul Taylor

3:00 *Highlights of 15 years of research on *Ascochyta* blight on pea in France: Epidemiology and impact of the disease on yield and yield components*
B. Tivoli

3:30 *Spatial distribution of *Didymella pinodes* Petrak and *Ascochyta pinodella* L.K. Jones on Austrian winter pea plants*
M.I. Chilvers, D.H. Erickson, H.O. Akamatsu, and T.L. Peever

3:50 *Response of field pea varieties to the fungal components of the *Ascochyta* complex*
H.J. Richardson, T. Leonforte and A. J. Smith

4:10 *Optimizing *Ascochyta* blight management in chickpea on the Canadian prairies*
C. Armstrong-Cho, T. Wolf, Y. Gan, B. Tar'an, and S. Banniza

4:30 *Effect of growth stages of chickpea on the genetic resistance of *Ascochyta* blight*
 M. Sharma, S. Pande, P.M. Gaur, and C.L.L. Gowda

4:50 *Development of screening techniques and identification of new sources of resistance to *Ascochyta* blight disease of chickpea*
S. Pande, M. Sharma, L. Kaur, A.K. Basandrai, P.M. Gaur, T. Khan, K.H.M. Siddique and C.L.L. Gowda

7:00-9:00 Conference Banquet

Presentation of Bob Henson Awards- *Kevin McPhee and Rubella Goswami*

Thursday, July 2

8:00 Breakout session

The breakout session will be designed to identify areas of Ascochyta research that are in need of attention and provide a forum for interested parties to discuss these areas of research need and to formulate plans for going forward. These plans would include important items such as: design research plans including objectives; determine scientists (Workshop attendees and those not present) with similar research interests to foster future cooperation; and identify potential sources of funds both nationally and internationally. The areas of research to be discussed at the breakout sessions would be determined during the workshop. Examples of topics of discussion could be: (1) Pathogen biology including the infection process and the development of progressively more virulent pathotypes; (2) Plant genomics focusing on resistance genes in pea, lentil and chickpea; and (3) Exploration, collection and evaluation of germplasm for resistance to ascochyta. The plan for the breakout sessions is to identify two or three areas such as these during the first days of the workshop and then arrive at a 2-3 page concept note on how the research would be conducted, scientists with such research interests, and where the needed funds could be found.

9:30 Break

9:50 Discussion of Breakout session

This discussion session will be devoted to the presentations of the plans developed in the Breakout Session to all workshop participants. We hope to conclude this part of the Workshop program with a set of research plans that when implemented will, foster improved teamwork on Ascochyta blights and possibly other grain legume diseases, and enhance our knowledge of the important aspects of the pathogens and interactions with the host species.

11:00 Concluding session

12:00 Boxed Lunch

1:00 Lab and greenhouse tours (optional) Wild perennial chickpea tour (optional)