

2025 SOYBEAN BREEDERS' WORKSHOP

PATHOLOGY AND BREEDING INNOVATION

Feb 17 - 19, 2025

Hosted by
Hilton St. Louis Frontenac
1335 S Lindbergh Blvd
St. Louis, MO 63131

MONDAY, FEB 17

SESSION 1: RESOURCES AND BREEDING INNOVATIONS

- 1:00 PM ● **Aaron Lorenz and Keith Rincker** - UMN, BASF
Welcome & Opening Remarks
- 1:10 PM ● **Cory Hirsch** - UMN
Leveraging large-scale data and machine learning to understand plant responses to abiotic and biotic stresses
- 1:40 PM ● **Jianxin Ma** - Purdue
SoyRenSeq: An approach for disease resistance gene discovery and application
- 2:10 PM ● **Geeta Menon** - BASF
TBD
- 2:40 PM ● **Rex Nelson** - SOYBASE, USDA
SoyBase Update: New look, new functionality

3:10 PM ● **Coffee Break : Banquet Lobby**

SESSION 2: KEYNOTE PRESENTATIONS

- 3:40 PM ● **Jan Leach** - Colorado State
Exploiting intergenic spaces to build stress resistance in plants
- 4:20 PM ● **Carl Bradley** - U of Kentucky
Current and future soybean disease challenges in the U.S.
- 5:00 PM ● **Aaron Lorenz & Keith Rincker** - UMN, BASF
Housekeeping announcements
- 5:10:PM - 6:30 PM ● **Graduate Student and Postdoc Professional Development Event**
Ambassadeur 2-4-6

SESSION 2 : NEMATODES

- 8:00 AM ● **Andrew Scaboo and Carrie Miranda** - U of Missouri, NDSU
Introduction
- 8:05 AM ● **Andrew Scaboo** - U of Missouri
New insights for developing soybean cultivars with broad SCN resistance
- 8:30 AM ● **Horacio Lopez-Nicora** - Ohio State
Soybean Cyst Nematode: Current challenges and future innovations
- 8:55 AM ● **Melissa Mitchum** - U of Georgia
Towards a better understanding of soybean resistance to Southern Root-Knot Nematode
- 9:20 AM ● **Caio Canella Vieira** - U of Arkansas
Broadening soybean resistance to Southern Root-Knot Nematode

9:45 AM ● **Coffee Break : Banquet Lobby**

SESSION 4 : FOLIAR AND SEEDLING DISEASES

- 1:30 PM ● **Feng Lin and Horacio Lopez-Nicora** - U of Missouri, Ohio State
Introduction
- 1:30 PM ● **Daren Mueller** - Iowa State
Foliar diseases
- 1:55 PM ● **Wade Webster** - NDSU
Seedling diseases
- 2:20 PM ● **Zenglu Li** - U of Georgia
Progress in breeding for frogeye leafspot resistance
- 2:45 PM ● **Dechun Wang** - Michigan State
TBD
- 3:10 PM ● **Mandy Bish** - U of Missouri
TBD

3:35 PM ● **Coffee Break : Banquet Lobby**

SESSION 3: STEM AND ROOT DISEASES

- 10:15 AM ● **Megan McCaghey and Eliana Monteverde** - UMN, U of Illinois
Introduction
- 10:20 AM ● **Alison Robertson** - Iowa State
Soybean stem and root rot- Pathotyping P. sojae and the current state of resistance
- 10:40 AM ● **TBD**
Introduction
- 11:00 AM ● **Febina Mathew** - NDSU
Soybean root diseases
- 11:20 AM ● **Andrew Bent** - U OF Wisconsin
Soybean Cyst Nematode resistance mechanisms
- 11:40 AM ● **Steve Clough** - USDA-ARS, U of Illinois
Red Crown Rot- An emerging threat
- 12:00 PM - 1:30 PM ● **Lunch**

SESSION 5: NEW AND EMERGING DISEASE ISSUES

- 4:00 PM ● **Panel discussion**
New and emerging diseases: What should breeders be worried about?
- 5:00 PM ● **Adjourn**
- 5:00 PM- 6:30 PM ● **Poster session and social hour**
Ambassadeur 1-3-5

SESSION 6 : REPORTS AND ANNOUNCEMENTS

- 8:00 AM ● **Cleiton Wartha** - Corteva
Announcement of poster winners
- 8:10 AM ● **Jamie O'Rourke** - USDA-ARS
Soybean Genomics Executive Committee Report
- 8:25 AM ● **Elroy Cober** - AAFC
Soybean Genetics Committee Report and Soybase.org update
- 8:40 AM ● **Ben Fallen** - USDA-ARS
Soybean Germplasm Committee Report
- 8:55 AM ● **From the floor**
Recognitions, retirements, and announcements

SESSION 7: ORAL PRESENTATIONS SELECTED FROM POSTER ABSTRACTS

- 9:00 AM ● **Speaker 1**
TBD
- 9:15 AM ● **Speaker 2**
TBD
- 9:30 AM ● **Speaker 3**
TBD
- 9:45 AM ● **Speaker 4**
TBD
- 10:00 AM ● **Speaker 5**
TBD
- 10:15 AM ● **Speaker 6**
TBD
- ~10:30 AM ● **Adjourn**

SPECIAL MEETINGS

MONDAY FEB 17

8:00 AM -
12:00 PM

● **Data visualization workshop**

Contact : Aaron Lorenz

8:30 AM -
10:00 AM

● **Soybean Germplasm Committee Meeting**

Contact : Ben Fallen

9:00 AM -
10:30 AM

● **SoyBase Workshop Meeting**

Contact : Rex Nelson

10:00 AM -
12:00 PM

● **Soybean Genomics Executive Committee Meeting**

Contact : Jamie O'Rourke

1:00 PM -
5:00 PM

● **Technicians' Workshop**

Contact : Brian Little and Benjamin Bartlett

7:00 PM -
8:00 PM

● **Soybean Genetics Committee**

Contact : Elroy Cober

TUESDAY, FEB 18

8:00 AM -
12:00 PM

● **Technicians' Workshop**

Contact : Brian Little and Benjamin Bartlett

6:30 PM -
7:30 PM

● **Uniform Regional Testing North and SCN Regional Testing**

Contact : Adam Brock / Troy Cary

7:00 PM -
8:00 PM

● **Uniform Regional Testing South**

Contact : Anne Gillen

WEDNESDAY, FEB 19

10:30 AM -
12:00 PM

● **Soybean Breeders' Workshop Planning Committee**

Contact : Keith Rincker