

2023 NFHB Forum Flash & Dash Sessions

Sunday, December 3

4:40PM - Flash & Dash Session

Pavillion Ballroom | Moderators: Nidhi Rawat and Matt Helm, FOC GDER Representatives
Graduate Student Poster Competition finalists present for final judging round.

- 4:45PM | Poster #310 – Shahaed Safar, North Dakota State University, Molecular Mapping of Fusarium Head Blight (FHB) Resistance in a Spring Wheat Mapping Population
- 4:50PM | Poster #306 – Isha Mittal, University of North Texas, Dual RNA-Sequencing Analysis of Lpx3 Conferred Resistance in Wheat During *Fusarium graminearum* Infection
- 4:55PM | Poster #111 – Peter Oppenheimer, North Carolina State University, Introducing Synthetic Spike-In Metabarcoding: a Novel, Sensitive, and Quantitative Method for Identifying Fusarium Species
- 5:00PM | Poster #203 – Yejune Moon, North Dakota State University, Matrix Effect in Quantitative Analysis of DON and DON-3-glucoside in Wheat, Barley, and Malt Using Liquid Chromatography-Mass Spectrometry
- 5:05PM | Poster #512 – Bipin Neupane, Washington State University, A Diallel Study to Detect Genetic Background Variation for FHB Resistance in Winter Wheat

Monday, December 4

2:50PM - Flash & Dash Session

Pavillion Ballroom | Moderators: Shengming Yang and Jason Fiedler, FOC VDHR Representatives
Post-Doc Poster Competition finalists present for final judging round.

- 2:55PM | Poster #311, Youhuang Xiang, Indiana University Bloomington, A *Fusarium graminearum* Effector FgTPP1 Targets Chloroplasts and Suppresses Plant Immunity
- 3:00PM | Poster #502, Charlotte Brault, University of Minnesota, Genomic Prediction for Fusarium Head Blight Resistance in the Hard Red Spring Wheat Uniform Regional Scab Nursery
- 3:05PM | Poster #409, Lovepreet Singh, University of Minnesota, High Resolution Melting (HRM) Assay for Rapid Identification and Differentiation of the *Fusarium graminearum* NX-2 Chemotype
- 3:10PM | Poster #304, Md Ashraful Islam, University of North Texas, Mutations in WhNPR3 and WhNPR4 Increase Resistance Against *Fusarium graminearum* in Arabidopsis and Wheat
- 3:15PM | Poster #508, Adenike Ige, University of Minnesota, Investigating the Potential of Weighted Genomic Relationship Matrix in Optimizing Prediction Accuracy of Deoxynivalenol Accumulation in Barley

4:40PM - Flash & Dash Session

Pavillion Ballroom | Moderator: Alyssa Koehler, FOC MGMT Representative
Brief poster presentation highlights by selection of Graduate Students and Post-Docs.

- 4:45PM | Poster #511, Abbeah Mae Navasca, North Dakota State University, High-Throughput Quantification of *Fusarium graminearum* Biomass in Barley Spikes and Grains Using Taq-Man Multiplex Real-Time PCR
- 4:50PM | Poster #202, Lola McMullan, Virginia Tech, Arabidopsis Callus Culture as a Conduit for Quantification of Trichothecene Mycotoxins from *Fusarium graminearum*
- 4:55PM | Poster #407, Nicholas Rhoades, USDA-ARS, Investigating the Mechanism of Trichothecene Suppression by a Fungal Endophyte
- 5:00PM | Poster #101, Tasneem Fathima, South Dakota State University, Screening for FHB-Resistance in Barley Lines Adaptable for South Dakota
- 5:05PM | Poster #515, Lawrence Tidakbi, Kansas State University, Identification of Fusarium Head Blight Resistance (FHB) in USA Wheat Breeding Programs