2024 National FHB Forum

Poster Competition Finalists and Flash & Dash Session Presentations

Sunday, December 8

4:35PM – **Poster Competition Session - Graduate Student Finalists**

- 4:40PM | Poster # 302 – **Bhavit Chhabra**, University of Maryland, Discovery and Mapping of FHB-resistant Mutations in a Susceptible Wheat Variety 'Jagger'
- 4:46PM | Poster # 202 – **Anil Kunapareddy**, North Dakota State University, Photosensitization for the Inactivation of *Fusarium* spp. In Vitro and in Wheat
- 4:52PM | Poster # 313 – **Alireza Poursafar**, North Dakota State University, Identification and Characterization of Fusarium Head Blight Susceptibility Genes in Durum Wheat
- 4:58PM | Poster # 314 – **Shahed Safar**, North Dakota State University, Targeted Mutagenesis of Two *Fhb7* Alleles in Common Wheat through Wide Hybridization with Transgenic Maize Expressing Cas9 and Single guide RNA
- 5:04PM | Poster # 522 – **Subash Thapa**, South Dakota State University, Enhancing Predictive Accuracy for Fusarium Head Blight-Related Traits in Winter Wheat through Integrating Genomics, Phenomics, And Deep Learning

Monday, December 9

2:45PM – **Poster Competition Session - Post-Doctoral Researchers**

- 2:50PM | Poster # 506 – **Charlotte Brault**, University of Minnesota, Improving Prediction of FHB Resistance in Wheat Using Genotype-by-Environment Information
- 2:56PM | Poster # 405 – **Nicholas Rhoades**, USDA-ARS, *Fusarium graminearum* Effector *FgRGAE* is Critical for Fungal Initial Infection in Wheat and Barley
- 3:02PM | Poster # 406 – **Lovepreet Singh**, University of Minnesota, Rapid Detection of *Fusarium graminearum* Chemotypes Using a Single-tube Multiplex High-Resolution Melting (HRM) Assay
- 3:08PM | Poster # 316 – **Youhuang Xiang**, Indiana University, A *Fusarium graminearum* Effector FgTPP1 Interacts with Stromal Chaperone HSP70 and Suppresses Plant Immunity
- 3:14PM | Poster # 317 – **Yuzhou Xu**, Kansas State University, Map-Based Cloning of *Qfhb.Hwwg-2ds* for Fusarium Head Blight (FHB) Resistance in Hard Winter Wheat

4:40PM – **Flash & Dash Session**

- 4:45PM | Poster # 509 – **Julian Cooper**, University of Minnesota, An RGB Based Deep Neural Network Approach for Field-Based High Throughput Phenotyping of Fusarium Head Blight in Wheat Using Mobile Images
- 4:49PM | Poster # 404 – **Rubylyn Infante**, North Dakota State University/USDA-ARS, Chromosome-Scale Assembly of Wheat Cultivar Sumai 3, the Major Germplasm Source for Fusarium Head Blight Resistance
- 4:53PM | Poster # 307 – **Janaki Mahat**, Montana State University, Genetic Dissection of Mycotoxin Variation in Barley
- 4:57PM | Poster # 204 – **Lola McMullan**, Virginia Tech, Calli in Focus: A Novel Lens for Mycotoxin Detection
- 5:01PM | Poster # 523 – **Lawrence Tidakbi**, Kansas State University, Identification of Fusarium Head Blight (FHB) Resistance Loci in Winter Wheat Using Exome and Promoter Capture Single Nucleotide Polymorphisms (SNPs)