

## Oat-related abstracts from PAG 32, 2025:

Workshop: Oats, Wild and Cultivated – hosted by Rick Jellen and Wubishet Bekele

- [Metabolic Engineering of Lipid Biosynthesis Enhances Oil Composition in Oat](#) – Zhou Zhou, *et al.*
- [Leaf Blotch Resistance Gene Mapping](#) – Aaron Beattie
- [Exploring \*Avena strigosa\*: Genomics, Diversity, and Pathogen Resistance for Oat Improvement](#) – Erin Moreau, *et al.*
- [The First Naked Oat Reference Genome Assemblies and a Comprehensive Multi-Omics Online Platform Designed to Advance Oat Breeding Efforts](#) – YuanYing Peng and Kaiquan Yu
- [A Pangenome and Pantranscriptome of Hexaploid Oat](#) – Martin Mascher

Other talks:

- [A Highly Efficient CRISPR-Cas9-Based Gene Editing System in Oat \(\*Avena sativa\*\)](#) – Mehtab Singh, *et al.*
- [A Pangenome and Pantranscriptome of Hexaploid Oat](#) – Kamal, *et al.*

## POSTERS

- [P410 Developing Intercropping Breeding Strategies to Improve Forage Quality in Cereal-Legume Mixtures and Crop Diversification in the Midwest](#) – Milcah Kigoni, *et al.*
- [P473 Genomics for Image-Based Phenotyping of Panicle and Grain Architecture Traits in Oats](#) – Ines Berro and Lucia Gutierrez
- [P474 Exploring Glycosyltransferase Family 34 for Insights into Beta-Glucan Synthesis in Oats](#) – Tanya Sarin, *et al.*
- [P475 Genomic Prediction Accuracy of Aerial- and Ground-Based Plant Height Models in Oat](#) – Afrina Rahman, *et al.*
- [P476 A Flexible Deep Learning Model to Quantify Signs and Symptoms of Oat Crown Rust \(\*Puccinia coronata\* f. sp. \*avenae\*\) from Field-Collected Images](#) – Craig Carlson, *et al.*
- [P477 Genomic Prediction of Crown Rust Resistance in the Southeastern Elite Oat Germplasm](#) – Janam Acharya, *et al.*
- [P478 Genetic Analysis of Adult Plant Resistance for Oat Crown Rust Resistance in a Nested Association Mapping Population](#) – Amandeep Lnu, *et al.*
- [P479 Genomic Prediction in Oat Grown Under Organic Conditions](#) – Pernille Sarup, *et al.*

- P480 MiR156/Squamosa Promoter Binding-like Proteins (SPL) Module and Its Potential Association with Floral Architecture in Oat – Mehtab Singh, *et al.*
- P748 Mining Genetic Diversity in Oats Using Genomics and Multi-Location Testing of a Recurrent Selection Population with Introduced Diversity from *Avena sterilis* – Morten Lillemo, *et al.*
- P749 Epigenetic Mapping to Unravel the Driving Forces of Stress Response Variation in Oats – Raja Sekhar Nandety, *et al.*
- P775 The First Naked Oat Reference Genome Assemblies and a Comprehensive Multi-Omics Online Platform Designed to Advance Oat Breeding Efforts – YuanYing Peng and Kaiquan Yu