

THIRTY-SECOND ANNUAL RUTGERS TURFGRASS SYMPOSIUM

School of Environmental and Biological Sciences, Rutgers University

March 16, 2023

Institute for Food, Nutrition, and Health Building, Room 101

8:30 - 9:00 AM	Registration
9:00 AM	Welcome – Laura Lawson (<i>Executive Dean of Agriculture and Natural Resources</i>)
9:10 - 10:40 AM	SESSION I: Stress Tolerance (Moderator: Thomas Gianfagna)
9:10 - 9:30	Stephanie Rossi (<i>Department of Plant Biology, Rutgers University</i>) – Alleviation of Heat-induced Leaf Senescence in Creeping Bentgrass by Application of Protease Inhibitors Associated with Suppression of Protein Degradation
9:30 - 9:50	Bingru Huang (<i>Department of Plant Biology, Rutgers University</i>) – Mobile Remote Sensing-based and Artificial Intelligence-guided Turfgrass Water Conservation Programs
9:50 - 10:10	Albrecht Koppenhöfer (<i>Department of Entomology, Rutgers University</i>) – Optimizing the Use of Annual Bluegrass Weevil to Control Annual Bluegrass in Creeping Bentgrass Fairways
10:10 - 10:40 AM	Discussion and Break
10:40 - 12:00 PM	SESSION II: Breeding / Genomics (Moderator: Ning Zhang)
10:40 – 11:00	Renaud Rincent (<i>French National Institute for Agricultural Research</i>) – Phenomic Selection: a Low-cost and Efficient Alternative to Genomic Selection
11:00 – 11:20	Stacy Bonos (<i>Department of Plant Biology, Rutgers University</i>) – Using Genomics to Help Guide Breeding for Summer Patch Tolerance in Kentucky Bluegrass
11:20 - 12:00	KEYNOTE: Gary Muehlbauer (<i>Department of Agronomy and Plant Genetics, University of Minnesota</i>) – Genomics Enabled Gene Discovery and Crop Improvement in Barley
12:00 – 1:00 PM	Lunch Break and Poster Session

1:00 – 1:40 PM	SESSION III: Turf Management (Moderator: Bradley Park)
1:00 – 1:20	Katherine Diehl (<i>Department of Plant Biology, Rutgers University</i>) Golf, Agronomy and Research at Bandon Dunes (the 2022 Sean M. Pattwell Scholarship)
1:20 – 1:40	James Murphy (<i>Department of Plant Biology, Rutgers University</i>) Topdressing Sand Size Effects on Mat Layer Development of Creeping Bentgrass
1:40 – 2:00 PM	Discussion Session
2:00 – 3:20 PM	SESSION IV: Pathology (Moderator: Rong Di)
2:00 – 2:20	Ming Yi Chou (<i>Department of Plant Pathology, University of Wisconsin - Madison</i>) Investigating Turfgrass Disease Suppressive Soil Microbiome – Metagenomics, Culturomics, and Metabolomics
2:20 – 2:40	J. Mitch Elmore (<i>USDA – ARS, Cereal Disease Lab</i>) Integrative Multi-omics Approaches to Dissect Plant Stress Responses
2:40 – 3:00	Glen Groben (<i>USDA</i>) Oxford Nanopore Technologies Sequencing Approaches for Mycobiome Analysis of Tall Fescue under Drought Stress and Diagnostics of Cool-Season Turfgrass Diseases
3:00 – 3:20	Faith Belanger (<i>Department of Plant Biology, Rutgers University</i>) – The <i>Epichloë festucae</i> antifungal Protein Can Reduce Dollar Spot Symptoms on Creeping Bentgrass
3:20 – 3:45 PM	Discussion Session and Closing Remarks
3:45	Social Hour and Poster Session