

# TWENTY-EIGHTH ANNUAL RUTGERS TURFGRASS SYMPOSIUM

School of Environmental and Biological Sciences, Rutgers University

January 11, 2019

Foran Hall, Room 138A

## Friday, January 11, 2019

**8:30 - 9:00 AM**      **Registration, Posters, Coffee and Donuts**

**9:00 - 10:00 AM**      **SESSION I: Germplasm Enhancement**  
(Moderator: Tom Gianfagna)

9:00 – 9:20      **Rong Di** (*Department of Plant Biology, Rutgers University*) CRISPR-Gene Editing of ‘Crenshaw’ Creeping Bentgrass to Improve Stress Tolerance

9:20 – 9:40      **Phillip Vines** (*Department of Plant Biology, Rutgers University*) A High-Density Genetic Linkage Map and Quantitative Trait Locus Analysis for Salinity Tolerance and Dollar Spot Resistance in Perennial Ryegrass (*Lolium perenne* L.)

9:40 – 10:00      **William Meyer** (*Department of Plant Biology, Rutgers University*) Enhancing Cool-Season Turfgrass Germplasm by Collecting in the Centers of Origin

**10:00 - 10:30 AM**      **Discussion and Coffee Break**

**10:30 – 11:10 AM**      **SESSION II: Mechanisms of Pesticide Resistance**  
(Moderator: Matthew Elmore)

10:30 – 10:50      **Geunhwa Jung** (*Stockbridge School of Agriculture, University of Massachusetts – Amherst*) Identifying the mechanisms of multiple fungicide resistance in the dollar spot pathogen

10:50 – 11:10      **Albrecht Koppenhöfer** (*Department of Entomology, Rutgers University*) Diagnosis and Management of Insecticide Resistance in the Annual Bluegrass Weevil

**11:10 – 11:20 AM**      **Discussion session**

**11:20 – 12:00 PM**      **KEYNOTE: Ambika Chandra** (*Department of Soil and Crop Sciences, Texas A&M*) Warm-season Turfgrass Breeding at Texas A&M

- 12:00 - 1:00 PM**      **Lunch and Poster Session**
- 1:00 – 2:00 PM**      **SESSION III: Turfgrass Management**  
(Moderator: Donald Kobayashi)
- 1:00 – 1:20      **James Murphy** (*Department of Plant Biology, Rutgers University*) Does the Particle Size of Topdressing Sand Affect a Putting Green Surface?
- 1:20 – 1:40      **Qiang Chen** (*Department of Plant Biology, Rutgers University*)  
Metagenomic Analysis Reveals Diversity and Effects of Bacterial Endophyte Communities Associated with Turf Seeds
- 1:40 – 2:00      **Matthew Elmore** (*Department of Plant Biology, Rutgers University*)  
Goosegrass Emergence and Control of Suspected Herbicide Resistant Populations
- 2:00 – 2:30 PM**      **Discussion and Coffee Break**
- 2:30 – 3:30 PM**      **SESSION IV: Turf Pathology**  
(Moderator: James White)
- 2:30 – 2:50      **Lisa Beirn** (*Syngenta*) This is Not Your Grandfather’s Dollar Spot
- 2:50 – 3:10      **Ning Zhang** (*Department of Plant Biology, Rutgers University*)  
Understanding the Microbiome Associated with Turfgrasses
- 3:10 – 3:30      **Faith Belanger** (*Department of Plant Biology, Rutgers University*) The *Epichloë festucae* Antifungal Protein: What We Know So Far
- 3:30 - 3:45 PM**      **Discussion and Closing Remarks**
- 3:45 PM**              **Social Hour and Poster Session**