

Final Agenda



IFTBC
International Forage &
Turf Breeding Conference
A Global Vision for Innovation

March 24-27, 2019 | Lake Buena Vista, FL, USA

<http://conference.ifas.ufl.edu/iftbc2019/>

The International Forage & Turfgrass Breeding Conference (IFTBC) is the first joint meeting of the 10th Molecular Breeding of Forages and Turf Conference (MBFT) and the 6th International Symposium of Forage Breeding (ISFB). This first of a kind joint meeting will be held in March 2019 in Orlando, Florida. The time and venue have been selected to allow participants to experience the transition in species composition from cool to warm season in North and Central Florida. Participants will also enjoy Florida's delightful weather at this time of year. We believe forage and turfgrass improvement research is on the precipice of revolutionary developments and this conference offers a unique opportunity for worldwide showcase and collaboration.

The purpose of this conference is to provide a forum to:

- Learn the role of conventional genetics, genomics and biotechnology in accelerating cultivar development
- Share forage, turfgrass and bioenergy improvement research ideas, procedures, techniques, results and conclusions
- Educate students, practitioners, scientists and professionals
- Recognize excellence through awards for best overall poster presentation, (first, second and third place poster awards).
- Network during conference lunches, breaks, dinner, a welcome reception and a poster session social
- Showcase and learn more about the latest scientific developments in crop improvement

We look forward to seeing you at the conference!

Sunday, March 24, 2019

4:00pm	Guest Arrival and Check-in at the Holiday Inn Lake Buena Vista (<i>Hotel check-in is at 4pm.</i>)
4:00pm - 8:00pm	Registration Open in Pre-function Area of Conference Wing
4:00pm - 7:00pm	Sponsor & Poster Presenter Move-In
5:00pm - 8:00pm	Welcome Reception in Palms Ballroom

Monday, March 25, 2019

6:30am - 8:00am	Breakfast Buffet in Palms Ballroom
6:30am - 5:30pm	Registration Office Open
Opening Plenary Session [8:00am - 9:30am] - Sponsored by the Scott's Company	
8:00am - 8:10am	Welcome and Introductions by the Planning Committee
8:10am - 8:20am	Welcome from the University of Florida/IFAS Agronomy Department and our Forage and Turf Breeding Programs — Dr. Robert A. Gilbert , Dean for Research and Director, Florida Agricultural Experiment Station, University of Florida/IFAS, Gainesville, FL, USA
8:20am - 8:30am	University of Florida/IFAS Welcome — Dr. Jack Payne , Senior Vice President for Agriculture and Natural Resources, University of Florida/IFAS, Gainesville, Florida, USA
8:30am - 9:00am	Precision Editing of the Complex Sugarcane Genome by Homology Directed Repair of CRISPR/Cas9 Induced DNA Breaks — Dr. Fredy Altpeter , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
9:00am - 9:30am	Find a Need and Fill it: Bringing Turfgrass Innovations to the Market — Mr. Bob Harriman , The Scotts Company, Marysville, Ohio, USA
9:30am - 10:00am	Refreshment Break and Networking in the Poster and Sponsor Display Hall
Session 1 [10:00am - 11:30am]	
SESSION TITLE	Modern Breeding and Genetic Tools
MODERATOR	Dr. Kenneth H. Quesenberry , Professor Emeritus, University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
10:00am	Integrating Genomics, Transcriptomics and Phenomics to Advance Plant Breeding Strategies — Dr. Maria Monteros , Noble Research Institute, Ardmore, Oklahoma, USA
10:15am	Linkage Map with SNP Dosage Data in Tetraploid <i>Urochloa decumbens</i> — Dr. Rebecca Ferreira , University of Campinas, Campinas, Sao Paulo, Brazil
10:30am	Genome-Wide Family Prediction for Agronomic Traits in Alfalfa — Dr. Esteban Rios , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
10:45am	Genomic Selection of Agronomic Traits of Winter Wheat: A Case Study in a Forage Wheat Breeding Program — Dr. Frank Maulana , Noble Research Institute, Ardmore, Oklahoma, USA
11:00am	Big Trials and Big Data: Next Generation Forage Breeding — Dr. Pieter Badenhorst , Agriculture Victoria Research, Hamilton VIC, Australia
11:15am	Development of F1 Hybrid Breeding Technology in Ryegrasses — Dr. Noel Cogan , Agriculture Victoria Research, Bundoora VIC, Australia
11:30am - 1:00pm	Lunch Buffet in Palms Ballroom

Monday, March 25, 2019 (continued)

Session 2 [1:00pm – 2:30pm]

SESSION TITLE	Phenotyping Technology
MODERATOR	<i>Dr. Fredy Altpeter</i> , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
1:00pm	Using Machine Learning to Identify and Analyze Red Clover Space Plants in Breeding Nurseries — <i>Dr. Heathcliffe Riday</i> , U.S. Dairy Forage Research Center (USDA-ARS), Madison, Wisconsin, USA
1:15pm	Rapid Detection of Drought Stress Using Field Radiometry for High Throughput Screening — <i>Dr. David McCall</i> , Virginia Tech, Blacksburg, Virginia, USA
1:30pm	Preliminary Study on Unmanned Aerial Vehicle (UAV)-Based High-Throughput Phenotyping of Plant Height in Seeded Centipedegrass and Ornamental Plants — <i>Dr. Jing Zhang</i> , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
1:45pm	Resistance to Aphanomyces Root Rot in Alfalfa (<i>Medicago sativa</i> L.) — <i>Dr. Deborah Samac</i> , USDA-ARS, St. Paul, Minnesota, USA
2:00pm	Germplasm Screening for Tolerance to Bermudagrass Stem Maggot (BSM) — <i>Dr. William Anderson</i> , USDA/ARS, Tifton, Georgia, USA
2:15pm	Mixing St. Augustinegrass (<i>Stenotaphrum secundatum</i>) Cultivars as an Integrated Pest Management Strategy in Residential Lawns — <i>Dr. Adam Dale</i> , University of Florida/IFAS, Entomology & Nematology Department, Gainesville, Florida, USA
2:30pm - 3:00pm	Refreshment Break and Networking in the Poster and Sponsor Display Hall

Session 3 [3:00pm - 5:00pm]

SESSION TITLE	Breeding and Selection
MODERATOR	<i>Dr. Debra Hignight</i> , NexGen Turf Research, Albany, Oregon, USA
3:00pm	Impact of Selection for Flowering Time on Biomass Yield of Switchgrass — <i>Dr. Michael Casler</i> , USDA-ARS, Madison, Wisconsin, USA
3:15pm	Valuing Genetic Gain – What’s The Likely on Farm Value of New Cultivars — <i>Dr. Kevin Smith</i> , University of Melbourne, Hamilton VIC, Australia
3:30pm	Alfalfa Breeding in Argentina — <i>Dr. Daniel Basigalup</i> , INTA Manfredi, Córdoba, Argentina
3:45pm	Heritability of Resilience to Deficit Irrigation in Tall Fescue — <i>Dr. Blair Waldron</i> , USDA, Logan, Utah, USA
4:00pm	Seed Set Evaluation in Inter-Specific Hybrids of Lotus — <i>Dr. Rafael Reyno</i> , National Institute of Agricultural Research, Tacuarembó, Uruguay
4:15pm	Phenotyping of <i>Brachiaria Humidicola</i> Hybrids for its BNI Potential, Biomass Production, Forage Quality and N2O Emissions — <i>Dr. Jacobo Arango</i> , CIAT, Cali, Valle del Cauca, Colombia
4:30pm	Keynote Presentation: <i>John Beuttenmuller</i> , Executive Director, Florida Foundation Seed Producers, Inc., Marianna, Florida, USA
5:00pm - 6:30pm	POSTER SESSION & NETWORKING RECEPTION 1 (Presenters at odd numbered posters to stand at displays from 5:30pm - 6:30pm.)

Tuesday, March 26, 2019

6:30am - 8:00am	Breakfast Buffet in Palms Ballroom
6:30am - 5:30pm	Registration Office Open
Session 4 [8:00am - 9:30am]	
SESSION TITLE	Genetic Resources and Novel Species
MODERATOR	Dr. Kevin Kenworthy , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
8:00am	Genetic Improvement of <i>Paspalum</i> Species in Northeastern Argentina — Dr. Carlos Acuña , Universidad Nacional del Nordeste, Corrientes, Argentina
8:15am	Broadening the Genepool for Forage and Turf Grass Breeding - New Collections of <i>Lolium</i> and <i>Festuca</i> ssp. — Dr. Silvia Bachmann-Pfabe , Leibniz Institute of Plant Genetics and Crop Plant Research, Malchow, Mecklenburg-Vorpommern, Germany
8:30am	National Plant Germplasm System's Cool-Season Grass and Temperate-Adapted Legume Forage Genetic Resources — Dr. Brian Irish , USDA-ARS, Prosser, Washington, USA
8:45am	Evaluating Annual Legume Forage Cover Crops for the Southern Great Plains — Dr. Suresh Bhamidimarri , Noble Research Institute, Ardmore, Oklahoma, USA
9:00am	<i>Paspalum atratum</i> and <i>P. malacophyllum</i> Pollen Cryopreservation — Dr. Bianca Vigna , Embrapa Pecuária Sudeste, São Carlos, Sao Paulo, Brazil
9:15am	Review: Breeding and Molecular Research of Some Tropical Grasses in Japan — Dr. Hitoshi Nakagawa , Hamamatsu Photonics K. K., Hamamatsu, Shizuoka, Japan
9:30am - 10:00am	Refreshment Break and Networking in the Poster and Sponsor Display Hall
Session 5 [10:00am - 11:30am]	
SESSION TITLE	Use of Molecular Tools for Selection
MODERATOR	Dr. Steve Reid , DLF Pickseed, Halsey, Oregon, USA
10:00am	Improving the Use of Genomic Tools in Tropical Forage Grass Breeding with Diploid Ruzigrass as a Reference — Dr. Marco Pessoa-Filho , Embrapa Cerrados, Brasilia, Distrito Federal, Brazil
10:15am	High-Density Linkage Map with Allele Dosage of Polyploid <i>Megathyrsus maximus</i> — Mrs. Thamiris Gatti Deo , UNICAMP, Sao Paulo, Brazil
10:30am	Genome-Wide Polymorphisms in Polyploids <i>Paspalum</i> Species from Plicatula Group — Dr. Fernanda Ancelmo de Oliveira , UNICAMP, Sao Paulo, Brazil
10:45am	Genotyping by Sequencing Provides New Insights into the Molecular Genetic Diversity of Napier Grass Collections and Identified Candidate Genes Associated with Important Forage Traits — Dr. Meki Shehabu Muktar , International Livestock Research Institute (ILRI), Addis Ababa, Ethiopia
11:00am	Genomic Prediction Models for Forage Quality in Timothy (<i>Phleum pratense</i> L.) in Diverse Environments — Dr. Mallikarjuna Rao Kovi , Norwegian University of Life Sciences, Ås, Akershus, Norway
11:15am	Research on Molecular Mechanism of Seeds Germination in Sheepgrass — Prof. Gongshe Liu , Chinese Academy of Sciences, Beijing, China
11:30am	Genomics-Assisted Breeding for Enhancing Resistance to Biotic and Abiotic Stresses in Alfalfa — Dr. Long-Xi Yu , USDA-ARS, Prosser, Washington, USA
11:45am - 1:00pm	Lunch Buffet in Palms Ballroom

Tuesday, March 26, 2019 (continued)

Session 6 [1:00pm - 2:30pm]

SESSION TITLE	Endophytes and Symbiosis
MODERATOR	Dr. Ann Blount , UF/IFAS North Florida REC & Agronomy Department, Forage Breeding and Genetics, Marianna, Florida, USA
1:00pm	Systems Biology and Molecular Breeding of Grass-endophyte Symbiota — Dr. German Spangenberg , Agriculture Victoria Research, Bundoora, VIC, Australia
1:15pm	Transcriptome Analysis of Perennial Ryegrass - Asexual Epichloë Symbioses during Seedling Growth and Maturation — Dr. Kathryn Guthridge , Agriculture Victoria Research, Bundoora, VIC, Australia
1:30pm	Expression Analysis of Tall Fescue Harboring Different Endophyte Strains in Response to Water Deficit — Dr. Randy Dinkins , USDA-ARS, Lexington, Kentucky, USA
1:45pm	Does Endophyte-Association Improve Productivity in Tall Fescue? The Case of the Novel AR584 Strain in a Non-Limiting Environment — Dr. Javier Do Canto , INIA, Tacuarembó, Uruguay
2:00pm	Genome-Wide Association Study of Symbiotic Nitrogen Fixation Effectiveness in <i>Medicago truncatula</i> — Dr. Raul Huertas , Noble Research Institute, Ardmore, Oklahoma, USA
2:15pm	Endophytes and Mycotoxins in Florida Pastures — Dr. Ann Blount , UF/IFAS North Florida REC & Agronomy Department, Forage Breeding and Genetics, Quincy, Florida, USA
2:30pm - 3:00pm	Refreshment Break and Networking

Session 7 [3:00pm - 4:00pm]

SESSION TITLE	Abiotic Stress
MODERATOR	Dr. Esteban Rios , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
3:00pm	Detection of Quantitative Trait Loci Associated with Drought Tolerance in St. Augustinegrass — Dr. Xingwang Yu , North Carolina State University, Raleigh, North Carolina, USA
3:15pm	Performance and Correlation for Leaf Dry Matter Yield of Diverse Germplasm of <i>Panicum maximum</i> Jacq. Under Two Levels of Soil Fertility in the Brazilian Cerrado — Dr. Mateus Santos , Embrapa Beef Cattle, Campo Grande, Mato Grosso do Sul, Brazil
3:30pm	Resilience and Stability of Alfalfa Cultivars in North America — Dr. Valentin Picasso , University of Wisconsin - Madison, Madison, Wisconsin, USA
3:45pm	Evaluating Cultivar and Species Traits with the CROPGRO Perennial Forage Model for Grasses and Legumes — Dr. Kenneth Boote , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA

Tuesday, March 26, 2019 (continued)

Session 8 - Student Lightning Round [4:00pm - 5:00pm]

Students will give a five-minute "lightning fast" talk about the work described in their poster abstract, using a maximum of five slides, which will automatically advance at one minute per slide.
The result is a series of fun and fast-paced presentations.

MODERATOR	Dr. Esteban Rios , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:00pm	Session Introduction and Overview
4:05pm	Identifying St. Augustinegrass Off-types in Sod Production Fields — Mrs. Jamie Buhlman , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:10pm	A Novel Kentucky Adapted Red Clover Line Displays Increased 2,4-D Tolerance — Mr. Lucas Araujo , University of Kentucky, Lexington, Kentucky, USA
4:15pm	QTL Mapping and Proteomic Analysis for the Development of Efficient Selection of Freeze Tolerance in Zoysiagrass — Ms. Jessica Brown , North Carolina State University, Raleigh, North Carolina, USA
4:20pm	Genotype-By-Environment Analysis for Turf Quality in Bermudagrass — Ms. Beatriz Gouveia , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:25pm	Validation of Quantitative Trait Loci Associated with Freeze Tolerance in St. Augustinegrass — Ms. Sydney Graham , North Carolina State University, Raleigh, North Carolina, USA
4:30pm	Development of Single Nucleotide Polymorphisms (SNP) Markers for Genetic Map Saturation of Hexaploid <i>Urochloa humidicola</i> — Mrs. Aline da Costa Lima Moraes , UNICAMP, Campinas, Sao Paulo, Brazil
4:35pm	Polyethylene Glycol Effects on Zoysiagrass Root Growth and Leaf Hydration Status in a Hydroponic System — Ms. Katherine Cox , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:40pm	Root System Architecture and Root Development of Bahiagrass Mutants under Dry Down and Well-water Conditions — Mr. Pablo Boeri , University of Florida/IFAS, West Florida Research and Education Center, Jay, Florida, USA
4:45pm	Effects of Ploidy on Photosynthesis, Transpiration Efficiency, and Growth of Annual Ryegrass Under Variable Atmospheric Carbon Dioxide and Water Conditions — Ms. Jennifer Timmers , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:50pm	Genetic Parameters for Agronomic Traits in a Reference Alfalfa Population — Mr. Janam Acharya , University of Florida/IFAS Agronomy Department, Gainesville, Florida, USA
4:55pm	Session Wrap-Up and Housekeeping Remarks
5:00pm - 6:30pm	POSTER SESSION & NETWORKING RECEPTION 2 (Presenters at even numbered posters to stand at displays from 5:30pm - 6:30pm.)

Wednesday, March 27, 2019

All-Day Tour at the Plant Science Research & Education Unit (PSREU) in Citra, Florida

The Plant Science Research and Education Unit (PSREU) serves University of Florida Institute of Food and Agricultural Sciences (UF/IFAS) faculty with the infrastructure needed to conduct diverse row and specialty crop research projects on more than 1,086 acres, with 700 acres of cultivatable land. Approximately 140 researchers conduct more than 400 projects at the PSREU that include turf production and maintenance, plant breeding, minimum and reduced tillage, crop water management, plant pathology, plant fertility, corn genomics and vegetable production, just to name a few. This field tour features a birds-eye view of cutting edge research on plant breeding and genetics, and much more.

6:30am	Morning Refreshments and Coffee Service in Bus Loading Area (Gallery Foyer)
7:15am	BOARD BUSES
7:30am	Buses Depart and Drive to Citra, FL
9:15am	Arrive at PSREU - Enjoy Coffee and Danish under Pavilion
9:30am	Welcome by the PSREU Director
9:45am	Attendees divide into three groups for tours around the property and presentations by researchers.
10:00 – 10:30 am	Station 1: Tour Turf Area <i>Presenter: Dr. Kevin Kenworthy, Professor, Agronomy Department, University of Florida/IFAS</i>
10:45 – 11:15 am	Station 2: Tour Forage Area <i>Presenter: Dr. Esteban Rios, Assistant Professor, Agronomy Department, University of Florida/IFAS,</i>
11:30 – 12:00 pm	Station 3: Tour Small Grain Area <i>Presenter: Dr. Ali Babar, Professor, Agronomy Department, University of Florida/IFAS</i>
12:15 – 12:30 pm	Equipment Display
12:30 – 1:30 pm	Group Luncheon Under Pavilion
1:45pm	BOARD BUSES
2:00pm	Depart PSREU - drive through local area horse farms on return trip to hotel
5:00pm	Arrive at Hotel in Lake Buena Vista
6:00pm - 6:30pm	Evening Social in Pre-Function Area of Conference Wing
6:30pm - 8:30pm	Closing Dinner & Awards
8:30pm	Conference Concludes