18th Biennial Meeting of the Florida Phytopathological Society

May 17-19, 2023

UF/IFAS Southwest Florida Research and Education Center, Immokalee

Agenda

Wednesday, May 17, 2023

5:30 pm Reception

6:00 pm Employer Panel Discussion: Opportunities Outside of Academia

6:30 pm Poster Setup

6:45 pm Dinner and Blight Bowl

Thursday, May 18, 2023

8:30 am Coffee and Posters

9:00 am Welcome and Introductions

Plenary Session. Moderator: Jacobo Robledo

9:15 am **Jeremy Brawner:** Developing pathogen detection tools and disease resistant

varieties

9:45 am Lindsey Thiessen: Follow that spore: Plant pathogen detection and monitoring

10:15 am Megan Dewdney: Prediction of a sporadic but important disease: The case of

postbloom fruit drop

10:45 am Break

11:00 am **Tom D'Elia:** The transformative power of agricultural partnerships in education

and outreach

11:30 am Dana Choi: Improving crop production using machine learning and synthetic data

for specialty crops

12:00 pm Lunch

1:00 pm Field trip instructions

1:15 pm	Load bus
1:30 pm	Travel to Sakata®
2:00 pm	Tour Sakata®
4:00 pm	Load bus
4:15 pm	Travel to UF/IFAS SWFREC
4:45 pm	Arrive at UF/IFAS SWFRE
5:00 pm	Dinner

Friday, May 19, 2023

6:00 pm

Student Oral Competition. Moderator: Eva Mulandesa

Poster competition

9:00 am	Welcome and Instructions	
9:15 am	Mousami Poudel: Identification and characterization of the first phytopathogenic subspecies in <i>Herbaspirillum huttiense</i> . UF/IFAS	
9:30 am	Raquel Hill: Recombinase polymerase amplification for field detection of citrus canker disease in the Caribbean. UF/IFAS	
9:45 am	Salih Yilmaz: Development of innovative isothermal amplification strategies for in-field tomato chlorotic spot virus detection. UF/IFAS	
10:00 am	Aastha Subedi: Population genomics of <i>Xanthomonas euvesicatoria</i> of pepper in Southwest Florida. UF/IFAS	
10:15 am	Break	
Student Oral Competition. Moderator: Mariana Herrera Corzo		
10:30 am	Amandeep Kaur: Evolution of copper resistance in <i>Xanthomonas perforans</i> population. UF/IFAS	
10:45 am	Jacobo Robledo: HLB tolerance: less impairment in leaf carbohydrate export, increase expression of plant defense activators, and reduced alteration of xylem vessels. UF/IFAS	
11:00 am	Samara V. Rocha: Citrus cystatins: Plant defense proteins. UF/IFAS	

11:15 am	Crissy Massimino: Characterization of a novel jumbo phage and identification of lysins for potential agricultural applications. Indian River State College	
11:30 am	Matthew A. Cullen: Trends to target: Protein profiles correspond to watermelon variety-specific virulence phenotypes of <i>Fusarium oxysporum</i> f. sp. <i>niveum</i> . UF/IFAS	
11:45 am	Christ Mane Belizaire: Developing resources to facilitate the accurate identification of avocado scab (<i>Elsinoë perseae</i>). UF/IFAS	
12:00 pm	Lis Porto: Exploring the phenotypic diversity of <i>Neopestalotipsis</i> spp. isolates causing strawberry diseases. UF/IFAS	
12:15 pm	Lunch	
Student Oral Competition. Moderator: Mousami Poudel		
1:00 pm	Carlie Meehan: Storage methods for, and the morphological characterization of, the blueberry rust pathogen in Florida. UF/IFAS	
1:15 pm	Joshua Konkol: Comparisons of tree colonization by the laurel wilt pathogen, Harringtonia lauricola, and the closely related non-pathogen, H. aguacate. UF/IFAS	
1:30 pm	Eva L. Mulandesa: Forging our path: understanding the citrus flush cycle and infection period of <i>Zasmidium citri-griseum</i> in grapefruit in Florida. UF/IFAS	
1:45 pm	Rebecca L. Barocco: Sensor-based monitoring system for peanut foliar disease epidemics. UF/IFAS	
2:00 pm	Break	
Short Technical Presentations. Moderator: Christ Mane Belizaire		
2:15 pm	Chiara Bernardini: Candidatus Liberibacter asiaticus inhibits callose and ROS. UF/IFAS	
2:30 pm	Poulami Sarkar: Underlying regulatory network in grapefruit seed vasculatures associated with high Liberibacter titer using comparative transcriptomics. UF/IFAS	
2:45 pm	Chunyi Lin: The gut virome in Florida psyllid populations and the influence on <i>Diaphorina citri</i> biology. UF/IFAS	
3:00 pm	Lederson Ganan Betancur: Challenges and insights into the use of essential oil-based biopesticides for the management of foliar and fruit diseases in avocado and mango. UF/IFAS	

3:15 pm	Monica Navia-Urrutia: Preliminary screening of Mexican avocado germplasm for resistance to laurel wilt disease. UF/IFAS	
3:30 pm	Break	
Short Technical Presentations. Moderator: Liz Porto		
3:45 pm	Wardatou Boukari: Use of plant essential oil products for Anthracnose and other fruit rot disease management in blueberry. UF/IFAS	
4:00 pm	Shelby Weber: Challenges and opportunities in tropical and subtropical plant diagnostics. UF/IFAS	
4:15 pm	Abolfazi Hajihassanui: Grafting tomato to manage southern blight and root-knot nematode diseases. UF/IFAS	
4:30 pm	John McVay: Ceratobasidium theobromae: An emerging plant pathogen of woody plants casual agent of vascular steak dieback (VSD). Florida Department of Agriculture and Consumer Services	
4:45 pm	Business meeting and student competition awards	

Poster Session

*Student Competition

Avril Rosano*: Evaluating the utility of detached leaf assay for *Thielaviopsis* – palm interaction. UF/IFAS

Marie-Gabrielle Ayika*: Establishing Agrobacterium-mediated transformation method for Thielaviopsis paradoxa.

Miami Dade College

Carlos Andres Sendoya-Corrales*: Re-evaluating the use of propiconazole in controlling laurel wilt in avocado orchards in South Florida. UF/IFAS

Maria de los Angeles Lugo Duque*: Progress report on the search for alternative fungicides to manage laurel wilt of avocado.

UF/IFAS

Galvin Alonzo*: Tackling a new menace: Effect of fumigants on inoculum of *Neopestalotiopsis* spp. in strawberry crowns and soil. UF/IFAS

Maryam Khalilzadeh*: Characterizing the phloem cell responses associated with stem-pitting development using citrus tristeza virus mutants. UF/IFAS

Zahra Torkaman*: Improving citrus management under protective screens: Exploring the co-occurrence of citrus greasy spot and chilli thrips seasonal patterns. UF/IFAS

Muhammad Asim*: Screening of sweet orange and mandarin against citrus canker. UF/IFAS

Jessica Dominguez*: Potential antimicrobial agents against *Candidatus* Liberibacter asiaticus, causal agent of Huanglongbing. Florida International University.

Kiara Taibi-Briz*: Potential of fungal endophytes and silver pyrazolate for control of *Raffaelea lauricola*, causal agent of laurel wilt in avocado. Florida International University

Hiago Silva*: De-novo assembly of *Xanthomonas citri* pv *anacardii* TAQ-13 the causal agent of cashew black spot and characterization of transcription activator-like effector genes. UF/IFAS

Josephine Pasche: Microbial makeover: The effects of soil cultivation on bacterial assemblages and *M. enterolobii* infections. UF/IFAS

Elena Karlsen-Ayala: From disturbance to resilience: Fumigation-induced changes in soil microbial communities. UF/IFAS

Maruthi Sridhar Balaji Bhaskar: Monitor and improve soil and plant health using spectral sensors and remote sensing. Florida International University

Kelly O'Brien: Cotton phenotypic response to foliar disease pressure under irrigated and non-irrigated conventional and sod-based rotation systems. UF/IFAS

Sanju Kunwar: Injecting oxytetracycline: An effective approach for managing HLB disease in citrus. UF/IFAS

Sanju Kunwar: New antimicrobials and systemic acquired resistance inducers for managing citrus canker disease. UF/IFAS

Kellee Britt-Ugartemendia: The Asian citrus psyllid as a bioindicator of citrus tristeza virus in Florida groves. UF/IFAS

Sara Salcedo: Assessment of the antagonistic effect of *Trichoderma* extracts towards *Harringtonia lauricola*. UF/IFAS

Katia Viana Xavier: Fusarium yellows threatening celery production in South Florida. UF/IFAS

James Fulton: Introducing the Florida Department of Agriculture and Consumer Services - Division of Plant Industry's exciting new diagnostic laboratory for honey bees, the Honey Bee Diagnostic Lab (HBDL). Florida Department of Agriculture and Consumer Services

Juliana Soares: Identification of diversity in *Xanthomonas albilineans* causing sugarcane leaf scald in Florida. USDA

Mariana Herrera-Corzo: Characterization of variation in virulence-related genes of *Phytophthora* palmivora associated with cacao. UF/IFAS