



**AMERICAN PHYTOPATHOLOGICAL SOCIETY**

**102<sup>ND</sup> SOUTHERN DIVISION MEETING**

*in conjunction with the*

**63<sup>rd</sup> CARIBBEAN DIVISION MEETING  
AND**

**The Emerging Viruses in Cucurbits Working  
Group**

**PROGRAM**

**MARCH 9 – 13, 2025  
IN-PERSON MEETING**

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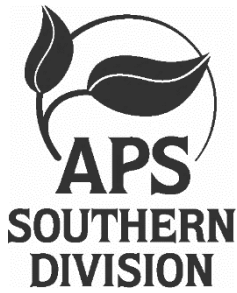
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# AMERICAN PHYTOPATHOLOGICAL SOCIETY *Joint SOUTHERN and CARIBBEAN* DIVISIONS **MEETING PROGRAM**

The 102<sup>nd</sup> annual meeting of the American Phytopathological Society, Southern Division is meeting jointly with the Caribbean Division at the Hilton University of Florida Conference Center Gainesville, FL. The meeting is in-person. Unless otherwise specified, all program events will take place at the Hilton University of Florida Conference Center. ***The main program will take place in the TBD***; any location changes for specific events are noted in the program event listing. Hors d'oeuvres will be available at the Welcome Reception on Monday evening. In lieu of a cash bar at the Welcome Reception and Awards Banquet, participants are welcome to use the hotel bar. Additional details regarding transportation and meals are included in the program at the listing for each event. ***All times listed in this program are in Eastern Time (ET).***

Photos may be taken during the meeting by SD-APS Executive Committee members. As a meeting registrant and attendee, you agree to allow the SD-APS to use your photo in APS publications and on the SD-APS and CD-APS websites and social media pages. As a courtesy to presenters, please ***do not take photos or screenshots*** of posters or presentation slides without presenter approval.

**Join us on Facebook and X, formerly Twitter!** - “Like” and follow the **APS Southern Division** and the **APS Southern Division - Graduate Students** pages on Facebook and follow the **APS SouthernDivision** (@sd\_aps) on X! Document your experiences throughout the meeting and post your photos using #SDAPS2025.

## **Sunday, March 9, 2025**

- |                |   |
|----------------|---|
| 3:00 - 4:15 PM | <b>SD-APS Executive Committee Meeting</b><br><i>Location: TBD</i> |
| 3:00 - 4:15 PM | <b>CD-APS Executive Committee Meeting</b><br><i>Location: TBD</i> |
| 5:00 - 6:30 PM | <b>Registration and Poster Set-Up</b><br><i>Location: TBD</i>     |

## **Monday, March 10, 2025**

- 8:00 – 8:15 AM      **Welcome**  
**Gary Vallad**, SD-APS President, Professor, Plant Pathology, University of Florida, Gulf Coast Research and Education Center, Wimauma, FL  
**Cecilia Hernández Zepeda**, CD-APS President, The Yucatan Center for Scientific Research, Mexico.
- Graduate Student Research Competition (Session I)**, Moderators: *Roshni Panwala*, SD-APS Graduate Student Representative, and *Navjot Kaur*, SD-APS Post-doc
- 8:15 – 8:30 AM      Investigation into the impact of crop residue on Fusarium head blight of hemp. **Henry Smith**, Annika Church, Nicole Gauthier; University of Kentucky, Lexington, KY.
- 8:30 - 8:45 AM      Survivability of *Pantoea stewartii* subspecies *indologenes* and its risk to onions in Poaceae-Allium cropping systems. **Santosh Koirala**, Anuj Lamichhane, Bhabesh Dutta; University of Georgia, Tifton, GA.
- 8:45 – 9:00 AM      Tracking aerosolization and long-distance dispersal of *Xanthomonas euvesicatoria* pv. *perforans* during mock pesticide applications. **Renzo Ramirez**<sup>1</sup>, Garrett Giles<sup>1</sup>, Walt Mahaffee<sup>2</sup>, Jeffrey B. Jones<sup>1</sup>, and Gary Vallad<sup>3</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>USDA-ARS HCDPMRU, <sup>3</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.
- 9:00 – 9:15 AM      Fungicide sensitivity and virulence of *Exserohilum turcicum* isolates from maize in Florida. **Vitor S. Moura**, Alba Myers, Marcio F. R. Resende, and Katia Xavier; Everglades Research and Education Center, University of Florida, Belle Glade, FL.
- 9:15 – 9:30 AM      Mixtures of biorational fungicides with low dose DMI fungicides to manage brown rot of peach. **Johanna Wesche** and Guido Schnabel; Clemson University, Clemson, SC.
- 9:30 – 9:45 AM      *Xylella fastidiosa*: its presence, vectors, and subspecies on diverse cropping systems. **Alexandra Ratay** and Elizabeth Cieniewicz; Clemson University, Clemson, SC.
- 9:45 – 10:00 AM      First report of *Colletotrichum theobromicola* causing celery leaf curl in the United States. **Fernanda Rodrigues Silva**<sup>1</sup>, Mario L. V. de Resende<sup>2</sup>, and Katia Xavier<sup>1</sup>; <sup>1</sup>Everglades Research and Education Center, University of Florida, Belle Glade, FL, <sup>2</sup>Universidade Federal de Lavras, Lavras, Brazil.
- 10:00 – 10:15 AM      BREAK: Networking**

**Graduate Student Research Competition (Session II)** Moderators: *Elias Zuchelli, SD-APS Graduate Student Representative, and Michelle Maclellan, SD-APS Post-doc*

- 10:15 – 10:30 AM Effect of fungicide product and mode of application on postharvest residue levels when managing sweet potato black rot caused by *Ceratocystis fimbriata*. **Hunter Collins** and Lina Quesada-Ocampo; North Carolina State University, Raleigh, NC.
- 10:30 – 10:45 AM *Candidatus* Liberibacter asiaticus and Asian citrus psyllid monitoring in commercial citrus groves in Georgia. **Carlton Collins**, Alejandra M. Jimenez Madrid, Jonathan E. Oliver, Apurba Barman, and Gabriel Munoz; University of Georgia, Tifton.
- 10:45 – 11:00 AM Negative regulation of the HiVir gene cluster by *luxR* in *Pantoea ananatis* drives pathogenicity in onion center rot. **Anuj Lamichhane**<sup>1</sup>, Brian Kvitko<sup>2</sup>, and Bhabesh Dutta<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>University of Georgia, Athens.
- 11:00 – 11:15 AM Developing a recombinase polymerase amplification (RPA) assay for detection of *Phytophthora capsici* in on-farm surface water sources. **Sarah Cochran-Murray**<sup>1</sup>, Lina Quesada-Ocampo<sup>1</sup>, and Timothy Miles<sup>2</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Michigan State University, East Lansing, MI.
- 11:15 – 11:30 AM Oxathiapiprolin fungicide resistance mutation biosurveillance in *Pseudoperonospora cubensis* using spore trapping in North Carolina. **Mariana Prieto Torres** and Lina Quesada-Ocampo; North Carolina State University, Raleigh, NC.
- 11:30 – 11:45 AM Assessing the impact of exposure to field conditions on the effectiveness of oxytetracycline to control citrus pathogens. **Lauren Fessler Mathews**, Ana Redondo, Sanju Kunwar, Ozgur Batuman; Southwest Florida Research and Education Center, University of Florida, Immokalee, FL.
- 11:45- 12:00 AM Genome sequencing, de novo assembly, and annotation of *Trichoderma longibrachiatum* isolate GEV 3550 collected from Florida agricultural soils. **Andrea K. Suazo Tejada**<sup>1</sup>, Pei-Ling Yu<sup>2</sup>, Katherine E. Smith<sup>2</sup>, Jose Huguet-Tapia<sup>2</sup>, Joseph Carrillo<sup>2</sup>, Jeremy T. Brawner<sup>2</sup>, and Gary Vallad<sup>1</sup>; <sup>1</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL; <sup>2</sup>University of Florida, Gainesville, FL.

**12:00 – 2:00 PM**      **LUNCH BREAK and POSTER VIEWING**  
**12:00 – 2:00 PM**      **Careers 101 Workshop: Strategic Conversation (Workshop)**  
Leader: *TBD*  
*Lunch provided for workshop pre-registrants.*  
*Location: TBD*  
*Sponsored by TBD.*

**Graduate Student Research Competition (Session III), Moderators: Vitor Moura and Fernanda Rodrigues Silva, SD-APS Graduate Students**

2:00 – 2:15 PM      Spatiotemporal spread of pollen-borne viruses and a viroid in South Carolina peach orchards. **Daniela Negrete-Moreno**, Garner Powell, Brodie Cox, and Elizabeth Cieniewicz; Clemson University, Clemson, SC

2:15 – 2:30 PM      Mechanisms underlying XA21-mediated semi-sterility in rice. **Beatriz de Toledo Franceschi**, Satyam Vergish, and Wen-Yuan Song; University of Florida, Gainesville, FL.

**Graduate Student Research Competition from Caribbean Division**

2:30 – 2:45 PM      From Flush to Fruit: Understanding the role of *Zasmidium citri-griseum* in the greasy green disorder. **Eva L. Mulandesa**<sup>1</sup>, Mark Ritenour<sup>2</sup>, Daniela Cardena<sup>2</sup>, Edinson Diaz<sup>2</sup>, Liliana Cano<sup>2</sup>, and Megan Dewdney<sup>1</sup>; <sup>1</sup>Citrus Research and Education Center, University of Florida, Lake Alfred, FL, <sup>2</sup>Indian River Research and Education Center, University of Florida, Fort Pierce, FL.

2:45 – 3:00 PM      A GIRAF (global invasion risk assessment framework) for plant pathogens! **Aaron Isai- Plex Sulá**, Romaric A. Mouafo-Tchinda, Berea A. Etherton, Ashish Adhikari, Jacobo R. Buritic, and Karen Garrett; Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL,

3:00 – 3:15 PM      Streamlined qPCR detection assay and nucleic acid extraction protocols for leaf scald and ratoon stunt disease in Louisiana sugarcane. **Joao V. P. Morales**, Annabel Miller, Mary B. Rollins, Madison T. Flasco, and Andre B. Gama; Louisiana State University, Baton Rouge, LA.

3:15– 3:30 PM      Dynamics of ascospore dispersal of *Zasmidium citri-griseum* in citrus under protective systems. **Zahra Torkaman**, Megan Dewdney, and Lauren Diepenbrock; Citrus Research and Education Center, University of Florida, Lake Alfred, FL.

**3:30 – 3:45 PM**      **BREAK: Networking**

**Graduate Student Research Competition (Session IV), Moderators:** Larissa Carvalho, SD-APS Pos-Doc

- 3:45 – 4:00 PM Occurrence of fungal plant pathogens in sweetpotato production in Uganda, Africa. **Carlos Morales**<sup>1</sup>, Bonny Oloka<sup>1</sup>, Bernard Yada<sup>2</sup>, Craig Yench<sup>1</sup>, Michael Bradshaw<sup>1</sup>, Peter Ojiambo<sup>1</sup>, and Lina Quesada-Ocampo<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>National Crops Resources Research Institute, Uganda.
- 4:00 – 4:15 PM Evaluating the efficacy of succinate dehydrogenase inhibitor (SDHI) fungicides for managing pecan leaf dieback (PLDB) caused by *Neofusicoccum caryigenum*. **Richard Loomer**, Erin Arthur and Young-Ki Jo; Texas A&M University, College Station, TX.
- 4:15 – 4:30 PM Modeling policy interventions to contain Fusarium wilt of bananas in Colombia: Integrating Trade, Stakeholder Movement, and Environmental Factors. **Jacobo R. Buritica**<sup>1</sup>, Karen Garrett<sup>1</sup>, and Monica Betancourt<sup>2</sup>; <sup>1</sup>Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL, <sup>2</sup>AGROSAVIA Sede Central, Bogota, Columbia.
- 4:30 – 4:45 PM Fungicide evaluations for pecan leaf dieback in Texas and Georgia. **Erin Arthur**<sup>1</sup>, Timothy B. Brenneman<sup>2</sup>, Paul Goetze<sup>1</sup>, Monte Nesbitt<sup>1</sup>, and Young-Ki Jo<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>University of Georgia, Tifton.
- 4:45 – 5:00 PM A survey of fungal communities harbored in wild and agroforestry leaves of Criollo cacao during the dry season in Belize. **Greetja Nestler**<sup>1</sup>, Lenardo Ash<sup>1</sup>, Michelle Odoi<sup>2</sup>, Holly Brabazon<sup>1</sup>, Amber Gunter<sup>1</sup>, Laura Whaley<sup>1</sup>, Sarah Boggess<sup>1</sup>, Bonnie Ownley<sup>1</sup>, Kevin Moulton<sup>1</sup>, Jacob Marlin<sup>3</sup>, DeWayne Shoemaker<sup>1</sup> and Denita Hadziabdic<sup>1</sup>; <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>Oregon State University, Corvallis, OR, <sup>3</sup>Belize Foundation for Research and Environmental Education.
- 5:00-5:15 PM Pathogenicity of two *Colletotrichum* species at five floral developmental stages and efficacy of fungicides for citrus premature fruit drop (PFD) control. Mauricio Serrano and **Rebeca Vega-Alvarado**; University of Costa Rica, San José, Costa Rica.
- 5:15 – 6.00 PM BREAK: Poster Viewing**
- 6:00 – 7.30 PM BREAK: Networking Event**  
**Welcome Reception & Poster Viewing**  
*Location:* TBD



## **Tuesday, March 11, 2025**

### ***Oral Technical Session I, Moderator: Santosh Koirala, SD-APS Graduate Student***

- 8:15-8.30 AM Natural language processing analysis as tool for disease risk priority management. **Laura Valbuena-Gaona**<sup>1</sup>, Joaquin Ramirez-Gil<sup>1</sup>, Karen Garrett<sup>2</sup>, Jacobo Robledo Buritica<sup>2</sup>; <sup>1</sup>Universidad Nacional de Colombia, Bogota, Colombia, <sup>2</sup>Global Food Systems Institute/Emerging Pathogens Institute University of Florida, Gainesville, FL.
- 8:30-8.45 AM Temperature optima of three *Rhizopus* species and pathogenicity to commercial peanut seeds at five temperatures. **Lucinda G. McEachin**, Timothy B. Brenneman, and Md. Aktaruzzaman; University of Georgia, Tifton.
- 8.45-9.00 AM Evaluating fungicide selection and application timings for control of ‘yellow tuft’ disease on zoysia grass. **Sharandeep S. Chahal** and Wendell J. Hutchens; University of Arkansas, Fayetteville, AR.
- 9.00-9.15 AM Is enigmatic cotton leafroll dwarf virus a threat to the cotton crop in Georgia, USA. **Surendra R. Edula**, Sudeep Bag, Lavesta C. Hand, Peng W. Chee, Robert C. Kemerait, John L. Snider, and Philip M. Roberts; University of Georgia, Tifton.
- 9.15-9.30 AM Adapting plant pathology to microgravity research: inoculation and growth of *Golovinomyces cichoracearum* on *Arabidopsis thaliana* using spaceflight hardware. **Kylee Soltez**<sup>1</sup>, Chad V. Bosch<sup>2</sup>, David Reed<sup>2</sup>, and Andrew Schuerger<sup>1</sup>; <sup>1</sup>Space Life Sciences Lab, University of Florida, Merritt Island, FL, <sup>2</sup>Redwire Space Technologies Raleigh, NC.
- 9.30-9.45 AM Molecular insights of N, NSm, and NSs-gene of Orthotospovirus tomatomaculae indicating a purifying selection in cultivated hosts in the southeastern United States. **Bhavya Shukla**, Albert K. Culbreath, J. Michael Moore, Theodore McAvoy, Nino Brown, and Sudeep Bag; <sup>1</sup>University of Georgia, Tifton.
- 9.45-10.00 AM Understanding the effects of fumigant chemistry and application history on *Agroathelia rolfsii* sclerotia and tomato soil microecology. **Roshni H. Panwala**<sup>1</sup>, Brittney Monus<sup>1</sup>, Sarah L. Strauss<sup>1</sup>, Nathan S. Boyd<sup>1</sup>, Samuel Martins<sup>2</sup>, and Gary Vallad<sup>1</sup>; <sup>1</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, <sup>2</sup>University of Florida, Gainesville, FL.
- 10.00 – 10:15 AM BREAK: Networking**

**Oral Technical Session II, Moderators: Roshni Panwala, SD-APS Graduate Student Representative**

- 10:15–10:30 AM Exploring the potential of calcium propionate to manage fungal plant pathogens. **Harleen Kaur** and Guido Schnabel; Clemson University, Clemson, SC.
- 10:30 – 10:45 AM Beyond the negative: Potential of soil salinity to combat bacterial spot disease and enhance tomato flavor. **Ketsira Pierre**, Bruce Schaffer, Jeffrey B. Jones, Geoffrey Meru, and Shouan Zhang; <sup>1</sup>University of Florida, Gainesville, FL.
- 10:45 – 11:00 AM Disease progress of pecan bacterial leaf scorch in a commercial pecan orchard following summer hedging. **Timothy B. Brenneman**<sup>1</sup>, Clive Bock<sup>2</sup>, Rajendra Acharya<sup>1</sup>, and Apurba Barman<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>USDA-ARS, Fort Pierce, FL.
- 11.00 – 11:15 AM Exploring environmental factors influencing sweetpotato sour rot caused by *Geotrichum candidum*. **Kelly Avila** and Lina Quesada-Ocampo; North Carolina State University, Raleigh, NC.
- 11.15 – 11:30 AM Isolation of *Xanthomonas citri* pv. *malvacearum* bacteriophage "Malice" and its ability to reduce pathogen load in cotton seed. **Izabela Moura Duin**<sup>1</sup>, Andrew Ernst<sup>1</sup>, Evan Braswell<sup>2</sup>, and Jennie Fagen<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, USDA APHIS PPQ S&T Insect Management and Molecular Diagnostics Laboratory, Edinburg, TX.
- 11.30-11.45 AM Encoding synthase for osmoregulated periplasmic glucans in *Xanthomonas euvesicatoria*: A critical player in bacteriocin susceptibility and fitness during plant infection. **Sophia T. McDuffee**<sup>1</sup>, Lauren Jaworski<sup>1</sup>, Jeannie Klein-Gordon<sup>2</sup>, Gerald Minsavage<sup>1</sup>, Erica Goss<sup>1</sup>, Anuj Sharma<sup>1</sup>, and Jeffrey B. Jones<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>USDA-ARS, Peoria, IL.
- 11.45-12.00 PM Effects of weather and disease on cotton seedling emergence. **Elias Zuchelli**<sup>1</sup>, Heather Kelly<sup>1</sup>, Maira Duffeck<sup>2</sup>; Tom W. Allen<sup>3</sup>, Tessie Wilkerson<sup>3</sup>, Robert Kemerait<sup>4</sup>, Kathy Lawrence<sup>5</sup>, Amanda Strayer-Scherer<sup>5</sup>, Terry A. Wheeler<sup>6</sup>, Paul P. Price<sup>7</sup>, Jason Woodward<sup>8</sup>, Terry Spurlock<sup>9</sup>, Ian Small<sup>10</sup>, Chase Floyd<sup>11</sup>, Mandy Bish<sup>11</sup>, Lucas Ughini Marques<sup>1</sup>, Daisy Ahumada<sup>12</sup>, Kayla Reid<sup>1</sup>, and Madison L. Woodward<sup>1</sup>; <sup>1</sup>University of Tennessee, Jackson, TN, <sup>2</sup>Oklahoma State University, Stillwater, OK, <sup>3</sup>Delta Research and Education Center, Mississippi State, University, Stoneville, MS, <sup>4</sup>University of Georgia, Tifton, GA, <sup>5</sup>Auburn University, Auburn, AL, <sup>6</sup>Texas A&M University, Lubbock, TX, <sup>7</sup>Macon Ridge Research Station, Louisiana State University, Winnsboro, LA, <sup>8</sup>PhytoGen, <sup>9</sup>University of Arkansas, Fayetteville, AR, <sup>10</sup>North Florida Research and Education Center, University of Florida, Quincy, FL, <sup>11</sup>University of Missouri, Columbia, MO, <sup>12</sup>North Carolina State University, Raleigh, NC.
- 12:00 – 2:00 PM LUNCH BREAK: Networking & Poster Viewing**

**Oral Technical Session III, Moderators: TBD**

- 2:00 – 2:15 PM Analysis of TAL effector-mediated susceptibility in soybean. **Kyra Hertz**, Jose Huguet-Tapia, Mukesh Jain, and Frank F. White; University of Florida, Gainesville, FL.
- 2:15 – 2:30 PM Genetic analysis of *Clavibacter nebraskensis*, the agent of leaf blight of maize. **Mary Tamer**, Jose Huguet-Tapia, Mukesh Jain, and Frank F. White; University of Florida, Gainesville, FL.
- 2:30 – 2:45 PM Fungicide resistance in Texas isolates of *Stagonosporopsis* species, causal agents of gummy stem blight of watermelon. **Maxwell Sturdivant**, Madeleine Renard, Annette Saucedo Padron, Jillian Hamilton, Emily Hesidence, Olufemi Alabi, and Thomas Isakeit; Texas A&M University, College Station, TX.
- 2:45 – 3:00 PM Unraveling blueberry leaf rust: Pathogen diversity and resistance screening in UF Southern Highbush Blueberry genotypes. **Christ Mane Belizaire**<sup>1</sup>, Romina Gazis<sup>1</sup>, Patricio Munoz<sup>2</sup>, Erica M. Goss<sup>2</sup>, and Philip F. Harmon<sup>2</sup>; <sup>1</sup>Tropical Research and Education Center, University of Florida, Homestead, FL, <sup>2</sup>University of Florida, Gainesville, FL.
- 3:00 – 3:15 PM Characterization of plant growth-promoting rhizobacteria for growth promotion and disease suppression in peanuts and turfgrass. **Kayla Sullins**, Amanda Strayer-Scherer, David Held; Auburn University, Auburn, AL.
- 3:15– 3:30 PM Field trials and disease scouting for areolate mildew in Tennessee cotton. **Allyson Sisco**, Elias Zuchelli, and Heather Kelly; University of Tennessee, Jackson, TN.
- 3:30 – 3:45 PM BREAK: Networking**
- Oral Technical Session IV, Moderators: TBD**
- 3.45 – 4:00 PM Assessment of biopesticide efficacy for year-round control of *Xanthomonas arboricola* pv. *pruni* on peach. **Junaed Ahmed** and Hehe Wang; Clemson University, Clemson, SC.
- 4:00 – 4:15 PM Investigations of media, photoperiod, and storage methodologies on *Ramulariopsis pseudoglycines*. **Kayla Reid**, Allyson Sisco, Elias Zuchelli, and Heather Kelly; University of Tennessee, Jackson, TN.
- 4:15 – 4:30 PM Evaluation of *Macrophomina phaseolina* within a soybean production system and cover crop implementations. **Amanda Blazek**<sup>1</sup>, Shelly Kerns<sup>2</sup>, Alemu Mengistu<sup>3</sup>, and Heather Kelly<sup>1</sup>; <sup>1</sup>University of Tennessee, Jackson, TN, <sup>2</sup>Macon Ridge Research Station, Louisiana State University, Winnsboro, LA, <sup>3</sup>USDA-ARS, Jackson, TN.
- 4:30 – 4:45 PM Impact of ear rots and foliar diseases on corn yield and fumonisin production across hybrids, fungicide treatment, and planting date. **Claire Cooke**<sup>1</sup>, Autumn

McLaughlin, and Heather Kelly<sup>1</sup>; <sup>1</sup>University of Tennessee, Jackson, TN,  
<sup>2</sup>Corteva Agriscience, Proctor, AR.

4:45 – 5:00 PM Tracing the hidden pathways: Alternative hosts and seed transmission of whitefly-transmitted viruses in cucurbits. **Dalvir K. Dhadly**<sup>1</sup>, Saritha R. Kavalappara<sup>1</sup>, Theodore McAvoy<sup>1</sup>, Paul Severns<sup>2</sup>, Alvin M. Simmons<sup>3</sup> Rajagopalbabu Srinivasan<sup>4</sup>, and Sudeep Bag<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>University of Georgia, Athens, <sup>3</sup>Vegetable Laboratory, USDA, Charleston, SC, <sup>4</sup>University of Georgia, Griffin.

**5:00 – 6:00 PM BREAK: Poster Viewing**

**6:00 – 7.30 PM BREAK: Networking Event**  
**Graduate Student and Post-doc business meeting and networking event**  
*Location: TBD*

## **Tuesday, Wednesday 12, 2025**

***Symposium: Breaching Cultural and Global Barriers to Elevate Plant Health, Moderator: Amit Levy, CD-APS Vice President***

8.00-8.30 AM Sharing collaborative experiences in transcriptome analysis of plant-microbe interactions. **Liliana Cano**; Indian River Research and Education Center, University of Florida, Fort Pierce, FL.

8.30-9.00 AM “We need you here in Georgia.” Why international efforts matter? **Robert Kemerait**; University of Georgia, Tifton, GA.

9:00-9.30 AM Global communities collaborating to address global risk. **Karen Garrett**; Plant Pathology Department/Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL.

9.30-10.00AM My transatlantic journey: advancing Science through resilience and diversity. **Bochra Bahri**; University of Georgia, Griffin, GA.

**10.00 – 10:15 AM BREAK: Networking**

***Symposium: Industry Sponsors, Moderators: TBD***

**11:30 – 2:00 PM LUNCH BREAK AND BUSINESS MEETING: Poster take down**  
**Caribbean Division: TBD**  
**Southern Division: TBD**

***Oral Technical Session V, Moderators: TBD***

2:00 – 2:15 PM CRISPR/Cas9-mediated editing of bs6 and bs8 homologs in tomato. **Mousami Poudel**<sup>1</sup>, Apekshya Parajuli<sup>1</sup>, Gerald Minsavage<sup>1</sup>, Samuel F. Hutton<sup>2</sup>, Jeffrey B. Jones<sup>1</sup>, and Anuj Sharma<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.

2:15 – 2:30 PM Enhancing regional biosecurity: A rapid, field-ready RPA assay for citrus canker. **Raquel S. Hill**<sup>1</sup>, Megan Dewdney<sup>2</sup>, Liliana Cano<sup>3</sup>, and Carrie Lapaire Harmon<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>Citrus Research and Education Center, University of Florida, Lake Alfred, FL, <sup>3</sup>Indian River Research and Education Center, University of Florida, Fort Pierce, FL.

2:30 – 2:45 PM Limitations of Lateral Flow Immunostrips™ in detecting sugarcane mosaic virus in turfgrass: A Florida case study. **Alec J. Dunker**, Philip F. Harmon, and Carrie Lapaire Harmon; University of Florida, Gainesville, FL.

2:45 – 3:00 PM Characterization and isolation of populations of *Ramularia* species in Alabama cotton. **Karamjit K. Baryah**, Zachary Noel, and Amanda Strayer-Scherer; Auburn University, Auburn, AL.

3:00 – 3:15 PM Machine learning analysis of hyperspectral images for plant pathology. **Clayton P. Blake**<sup>1</sup>, Imana Power<sup>1</sup>, Madison T. Flasco<sup>1</sup>, and Arthur Villordon<sup>2</sup>;

<sup>1</sup>Louisiana State University Agricultural Center, Baton Rouge, LA, <sup>2</sup>Sweet Potato Research Station, Louisiana State University Agricultural Center, Chase, LA.

3:15– 3:30 PM Validation of a TaqMan real-time polymerase chain reaction assay for rapid detection of *Fusarium oxysporum* f.sp. *lycopersici* in soil and water. **Jingya Yang**<sup>1</sup>, Ningxiao Li<sup>2</sup>, Frank Martin<sup>2</sup>, Cassandra Swett, and Gary Vallad<sup>1</sup>; <sup>1</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, <sup>2</sup>USDA-ARS, Salinas, CA, <sup>3</sup>University of California, Davis, Davis, CA.

**Oral Technical Session VI, Moderators: TBD**

3:45 – 4:00 PM Comparative genomics and pathogenicity of *Pseudomonas allivivorans* strains from onions and cucurbits in the southeastern United States. **Michelle P. MacLellan**<sup>1</sup>, Shatrupa Ray<sup>1</sup>, Kiersten Fullem<sup>2</sup>, Mathews Paret<sup>2</sup>, Neha P. Potnis<sup>3</sup>, Carolee P. Bull<sup>4</sup>, Jeffrey B. Jones<sup>2</sup>, and Bhabesh Dutta<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Florida, Gainesville, FL, <sup>3</sup>Auburn University, Auburn, AL, <sup>4</sup>The Pennsylvania State University, University Park, PA.

4:00 – 4:15 PM Exploring local fungal microorganisms as biocontrol agents against *Cercospora apii* on Celery. **Larissa Carvalho Ferreira** and Katia Xavier; <sup>1</sup>Everglades Research and Education Center, University of Florida, Belle Glade, FL.

4:15 – 4:30 PM *Diaphorina citri* flavivirus-like virus differentially modulates gene expression in Asian citrus psyllid, enhancing *Liberibacter* acquisition and transmission across its life stages. **Chun-Yi Lin**<sup>1</sup>, Jacobo Robledo Buritica<sup>2</sup>, Poulami Sarkar<sup>3</sup>, Ola Jassar<sup>4</sup>, Samara Vieira Rocha<sup>5</sup>, Ozgur Batuman<sup>6</sup>, Lukasz L. Stelinski<sup>1</sup>, and Amit Levy<sup>1</sup>; <sup>1</sup>Citrus Research and Education Center, University of Florida, Lake Alfred, FL, <sup>2</sup>Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL, <sup>3</sup>University of California Riverside, Riverside, CA, <sup>4</sup>Agricultural Research Organization, Volcani Center, Rishon LeZion, Israel, <sup>5</sup>Federal University of São Carlos, São Carlos, Brazil, <sup>6</sup>Southwest Florida Research and Education Center, Immokalee, FL.

4:30 – 4:45 PM Emerging population shifts in *Begomovirus coheni* causing tomato yellow leaf curl disease in Southeastern US. **Manish Kumar**<sup>1</sup>, Sudeep Bag<sup>1</sup>, Theodore McAvoy<sup>1</sup>, Ty Torrance<sup>1</sup>, Cale Cloud<sup>1</sup>, and Alvin M. Simmons<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>USDA-ARS, Charleston, SC.

4:45 – 5:00 PM Evidence of multiple fungicide resistance in *Alternaria brassicicola* from naturally infested broccoli seeds. **Navjot Kaur**<sup>1</sup>, Anoop Malik<sup>1</sup>, Daniel Cerritos-Garcia<sup>2</sup>, Sydney Everhart<sup>2</sup>, and Bhabesh Dutta<sup>1</sup>; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>University of Connecticut, Storrs, CT.

5:00 – 5:15 PM Management of *Fusarium oxysporum*, *Rhizoctonia solani*, and *Agroathelia*

*rolfsii* through Solarization in Kentucky High Tunnels. **April Lamb**<sup>1</sup>, Annika Church, Edward Dixon, Misbah Munir<sup>2</sup>, Kimberly Leonberger<sup>1</sup>, Paula Luize Lessman<sup>1</sup>, Henry S. Smith<sup>1</sup>, Kathryn Pettigrew<sup>1</sup>, Martin Polo<sup>1</sup>, Jamari Taylor<sup>1</sup>, Rachel Rudolph<sup>1</sup>, and Nicole Gauthier<sup>1</sup>; <sup>1</sup>University of Kentucky, Lexington, KY, <sup>2</sup>Mississippi State University, Starkville, MS.

**4:45 – 6:00 PM**      **BREAK**

**6:00 – 9:00 PM**      **Networking Event  
Awards Banquet**

*Dinner provided with meeting registration or guest ticket.*

*Location: Palmetto Prefunction & Palmetto Ballroom.*

### **Contributed Papers (Posters)**

Posters will be displayed in TBD.

**The maximum poster dimension is 40” x 40”. Posters must include their assigned number (once program is released) in the top left corner of their poster and can be displayed as early as Sunday afternoon (March 9), but must be removed promptly before 1 pm on Wednesday, March 12).**

\*Indicates student poster competition paper

### **VENUE: TBD**

1. \*Investigating the impact of canker pathogens on vascular streak dieback-related symptom development in Redbud. **Pratima Subedi**, Cansu Oksel, Prabha, Terri Simmons, and Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.
2. \*Evaluation of fungicides for the management of powdery mildew and Cercospora leaf spot in *Hydrangea macrophylla* under shade house conditions. **Christina Jennings**, Cansu Oksel, Sujana Dawadi, Terri Simmons, Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.
3. \*Building SynComs with beneficial microbes from the peach phyllosphere to combat *Xanthomonas arboricola* pv. *pruni*. **Jordan Marshall** and Hehe Wang; Clemson University, Clemson, SC.
4. \*Evaluating and validating a bacterial spot prediction model for *Xanthomonas arboricola* pv. *pruni* in field conditions. **Sherin Paul**, Daniel J. Anco, and Hehe Wang; Clemson University, Clemson, SC.
5. \*Optimized protocols for the detection of sugarcane yellow leaf virus and quantification of physiological impacts due to virus-sugarcane interactions. **Annabel Miller**, Joao V. P. Morales, T. Flasco, Andre B. Gama, and Mary Beth Rollins; Louisiana State University, Baton Rouge, LA.
6. \*Multi-locus sequence typing of a diverse collection of *Phytophthora palmivora* isolates and the newly described *Phytophthora heterospora* – Insights into global Distribution. **Alexander**

- C. Fast**<sup>1</sup>, Avril Rosano<sup>1</sup>, Miaoying Tian<sup>2</sup>, and Erica Goss<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>University of Georgia, Tifton.
7. \*Identification of *Ralstonia pseudosolanacearum* phylotype I sequevar 14 infecting tomato and eggplant in North Carolina. **Prem B. Magar**<sup>1</sup>, Alejandra Huerta<sup>1</sup>, Gilles Cellier<sup>2</sup>, Frank Louws<sup>1</sup>, and Tika Adhikari<sup>1</sup>; <sup>1</sup>NC State University, Raleigh, NC, <sup>2</sup>ANSES, Plant Health Laboratory, France.
  8. \*Growth dynamics of *Xylella fastidiosa* almond strains in grapevine xylem sap. **Mamata K C**, and Leonardo De La Fuente, Auburn University, Auburn, AL.
  9. Interactions between native soil microbiome and a synthetic microbial community reveals bacteria with persistent traits. **Jessica Velte**, Sameerika Mudiyansele, Olivia Hofmann, Samuel Martins, and Jose Huguet-Tapia; University of Florida, Gainesville, FL.
  10. Global host-pathogen infection networks in major terrestrial agroecosystems. **Aaron Isaí Plex Sulá**, Romaric Armel Mouafo-Tchinda, Ashish Adhikari, Jacobo Robledo Buritica, and Karen Garrett; Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL.
  11. Endophytic fungal communities from agroforestry and wild leaves of Criollo cacao (*Theobroma cacao* L.) in Southern Belize at the end of the wet season. **Lenardo Ash**<sup>1</sup>, Greetja Nestler<sup>1</sup>, Michelle Odoi<sup>2</sup>, Holly Brabazon<sup>1</sup>, Amber Gunter<sup>1</sup>, Laura Whaley<sup>1</sup>, Sarah Boggess<sup>1</sup>, Bonnie Ownley<sup>1</sup>, Kevin Moulton<sup>1</sup>, Jacob Marlin<sup>3</sup>, DeWayne Shoemaker<sup>1</sup>, and Denita Hadziabdic<sup>1</sup>; <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>Michigan State University, East Lansing, MI, <sup>3</sup>Belize Foundation for Research and Environmental Education, Belize.
  12. First report of *Fusarium oxysporum* f. sp. *apii* race 2 infecting celery (*Apium graveolens*) in Florida. Ludmila L. Silva<sup>1</sup>, Tarciso A. Ferreira Junior<sup>2</sup>, Larissa Carvalho Ferreira<sup>1</sup>, and **Katia Xavier**<sup>1</sup>; <sup>1</sup>Everglades Research and Education Center, University of Florida, Belle Glade, FL, <sup>2</sup>Universidade Federal de Viçosa, Viçosa, MG, Brazil.
  13. Identification of *Phytophthium* sp. as the causal agent of root rot in Methley plum (*Prunus salicina* Lindl. ‘Methley’) and Japanese holly (*Ilex crenata* Thunb.). **Cansu Oksel**<sup>1</sup>, Farhat Avin<sup>2</sup>, Prabha Liyanapathirana<sup>3</sup>, Terri Simmons<sup>1</sup>, Batu Arik<sup>4</sup>, and Fulya Baysal-Gurel; <sup>1</sup>Tennessee State University, Nashville, TN, <sup>2</sup>Bayer, McMinnville, <sup>3</sup>Tennessee Department of Agriculture, Nashville, TN, <sup>4</sup>University of Tennessee, Knoxville, TN.
  14. How viral, fungal, and bacterial diseases on tanager (*Xanthosoma* spp.) limits its production in Puerto Rico. Wanda Almodovar and **Martha C. Giraldo**; University of Puerto Rico, Mayagüez, PR.
  15. Unraveling the genetic diversity of *Epichloë* endophytes in tall fescue and ryegrass and their toxicity profiles in Alabama. **Precious E. Chukwubem**<sup>1</sup>, Anthony Adesemoye<sup>2</sup>; <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>Soil Dynamics Research, USDA-ARS, Auburn, AL.
  16. Isolation and characterization of the broad host range *Ralstonia solanacearum* phage “Rally”; with an emphasis on biocontrol potential. **Izabela Moura Duin**<sup>1</sup>, Andrew Ernst<sup>1</sup>, Evan



Braswell<sup>2</sup>, and Jennie Fagen<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, USDA APHIS PPQ S&T Insect Management and Molecular Diagnostics Laboratory, Edinburg, TX.

17. Molecular characterization and management of *Colletotrichum* spp. causing anthracnose in Florida cucurbit production. **Amanda McVay**<sup>1</sup>, Gary Vallad<sup>2</sup>, Pamela Roberts<sup>1</sup>, and Bhabesh Dutta<sup>3</sup>; <sup>1</sup>Southwestern Florida Research and Education Center, University of Florida, Immokalee, FL, <sup>2</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, <sup>3</sup>University of Georgia, Tifton, GA.
18. *Xanthomonas citri* pv. *lagerstroemium* isolated from crape myrtle foliar leaf spot, causes citrus canker-like symptoms on key lime. Izabela Moura Duin<sup>1</sup>, David Ritchie<sup>1</sup>, Evan Braswell<sup>2</sup>, and **Jennie Fagen**<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC, USDA APHIS PPQ S&T Insect Management and Molecular Diagnostics Laboratory, Edinburg, TX.
19. Exploring the role of plant growth-promoting rhizobacteria in mitigating virus infections: Towards sustainable agriculture. **Bibechana Paudel** and Sung-Hwan Kang; Auburn University, Auburn, AL.
20. Evaluating transcriptome profiles of scab susceptible and resistant pecan trees. **Jordan Brungardt**<sup>1</sup>, Yanina Alarcon<sup>2</sup>, Jason Shiller<sup>3</sup>, Carolyn Young<sup>4</sup>, Maria Monteros<sup>5</sup>, Jennifer Randall<sup>6</sup>, and Clive Bock<sup>7</sup>; USDA-ARS <sup>1</sup>Fruit and Tree Nut Research, USDA-ARS, Byron, GA, <sup>2</sup>University of Texas Southwestern, Dallas, TX, <sup>3</sup>The New Zealand Institute for Plant and Food Research, Auckland, NZ, <sup>4</sup>North Carolina State University, Raleigh, NC, <sup>5</sup>Bayer Crop Science, St. Louis, MO, New Mexico State University, Las Cruces, NM, <sup>7</sup>U.S. Horticultural Research Laboratory, USDA-ARS, Fort Pierce, FL.
21. Disease pressures of Pierce's disease-resistant grapevine hybrids at a research farm in Upstate South Carolina. **Annie Bruno**, Juan Carlos Melgar, and Guido Schnabel; Clemson University, Clemson, SC.
22. Evaluating the prevalence of the virulent *Neopestalotiopsis* sp. on strawberry in the Southeastern United States. **Alejandra M. Jimenez Madrid** and Phillip Brannen; University of Georgia, Athens, GA.
23. Phenotypic characterization of *Bipolaris maydis* isolated from Northern Corn Leaf Blight lesions on maize. **Katia Xavier**<sup>1</sup>, Vitor A. S. Moura<sup>1</sup>, Larissa Carvalho Ferreira<sup>1</sup>, and Marcio F. R. Resende<sup>2</sup> Everglades Research and Education Center, University of Florida, Belle Glade, FL, <sup>2</sup>University of Florida, Gainesville, FL.
24. Are there edge effects for bacterial spot of peach? **Milan Panth**<sup>1</sup>, Phillip Brannen<sup>2</sup>, and Hehe Wang<sup>1</sup>; <sup>1</sup>Clemson University, Clemson, SC, <sup>2</sup>University of Georgia, Athens, GA.
25. Anaerobic soil disinfestation effect on fungi and heterotrophic bacteria in organic sweet potato production. **Meredith Tucker**, Julia Kerrigan, and R. Karthikeyan; Clemson University, Clemson, SC.
26. Role of fusaric acid in palm-*Fusarium* interaction. **Marie-Gabrielle Ayika**<sup>1</sup>, Jeffrey Rollins, and Braham Dhillon<sup>1</sup>; Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL, <sup>2</sup>University of Florida, Gainesville, FL.

27. Assessing the risk of laurel wilt in avocado-producing and native host Regions of Latin America: An ecological niche modeling approach. Juan C. Garcia Peña<sup>1</sup>, Andres Lira-Noriega<sup>2</sup>, Laura A. Valbuena-Gaona<sup>3</sup>, and **Joaquin G. Ramirez-Gil**; <sup>1</sup>Ghent University, Ghent, Belgium, <sup>2</sup>Instituto de Ecología, A.C., Xalapa, Veracruz, México, <sup>3</sup>Universidad Nacional de Colombia, Bogota, Colombia.
28. Disaster plant pathology: Assessing injury profiles for food security crops across climate gradients in the Great Lakes region of Africa. **Romaric A. Mouafo-Tchinda**<sup>1</sup>, Aaron Isai Plex Sulá<sup>1</sup>, Berea A. Etherton<sup>1</sup>, Joshua S. Okonya<sup>2</sup>, Gloria V. Nakato<sup>3</sup>, Yanru Xing<sup>1</sup>, Jacobo Robledo Buritica<sup>1</sup>, Ashish Adhikari<sup>1</sup>, Guy Blomme<sup>4</sup>, Déo Kantungeko<sup>5</sup>, Anastase Nduwayezu<sup>6</sup>, Jan Kreuze<sup>7</sup>, Jürgen Kroschel<sup>8</sup>, James Legg<sup>9</sup>, and Karen Garrett<sup>1</sup>; <sup>1</sup>Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL, <sup>2</sup>Association for Strengthening Agricultural Research in Eastern and Central Africa, Entebbe, Uganda, <sup>3</sup>International Institute of Tropical Agriculture, Arusha, Tanzania, <sup>4</sup>Bioversity International, Addis Ababa, Ethiopia, <sup>5</sup>International Institute of Tropical Agriculture, Bujumbura, Burundi, <sup>6</sup>Rwanda Agriculture Development and Animal Resources Board (RAB), Ruhengeri, Rwanda, <sup>7</sup>International Potato Center (CIP), Lima, Peru, <sup>8</sup>Hans-Ruthenberg-Institute for Tropical Agricultural Sciences, University of Hohenheim, Stuttgart, Germany, <sup>9</sup>International Institute of Tropical Agriculture, Dar es Salaam, Tanzania.
29. CitrusYield: A machine learning model to predict citrus yield and evaluate huanglongbing mitigation strategies. **Jacobo Robledo Buritica**<sup>1</sup>, Amit Levy<sup>2</sup>, Tripti Vashisth<sup>2</sup>, and Karen Garrett<sup>1</sup>; <sup>1</sup>Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL, University of Florida, <sup>2</sup>Citrus Research and Education Center, Lake Alfred, FL.
30. Developing a decision support system for management of bacterial spot of tomato: Characterizing inoculum sources, epidemic potential, and management scenarios. **Jacobo Robledo Buritica**<sup>1</sup>, Gary Vallad<sup>2</sup>, Ashish Adhikari<sup>1</sup>, and Romaric A. Mouafo-Tchinda<sup>1</sup>; <sup>1</sup>Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL, <sup>2</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.
31. Risk assessment supporting mitigation of pathogens and pests: Perspectives on rice health in Nepal and the global emergence of false smut. **Ashish Adhikari**, Aaron Isai Plex Sulá, Romaric A. Mouafo-Tchinda, Jacobo Robledo Buritica, Berea A. Etherton, Katelin Alcock, Robert Fontan, Theodore J Stronkowsky, and Karen Garrett; Global Food Systems Institute/Emerging Pathogens Institute, University of Florida, Gainesville, FL
32. First steps towards biological control of aflatoxin in Guatemalan maize. **Mark Weaver**<sup>1</sup>, Curt Bowen<sup>2</sup>, Lilly Park<sup>1</sup>, Samantha Drewry<sup>3</sup>, and Jennifer Mandel<sup>3</sup>; <sup>1</sup>Biological Control of Pests Research, USDA ARS, Stoneville, MS, <sup>2</sup>Semilla Nueva, Boise, ID, <sup>3</sup>University of Memphis, Memphis, TN.
33. Determining the efficacy and cost benefits of LIDAR (Smart Spray) systems for control of pecan scab (*Venturia effusa*) in commercial pecan orchards. Clint Herndon and Timothy B. Brenneman; University of Georgia, Tifton, GA.

34. Fungicide spray initiation by planting date on leaf spot disease of peanuts. **Alana G. Atkinson**<sup>1</sup>, Albert K. Culbreath, Robert Kemerait, and Emily Cantonwine; <sup>1</sup>University of Georgia, Tifton, GA, <sup>2</sup>Valdosta State University, Valdosta, GA.
35. Is flutriafol the new kid on the block for managing laurel wilt disease in avocado? Maria de los Angeles Lugo-Duque<sup>1</sup>, **Monica Navia-Urrutia**<sup>2</sup>, and Romina Gazis<sup>1</sup>; <sup>1</sup>Tropical Research and Education Center, University of Florida, Homestead, FL, <sup>2</sup>Everglades Research and Education Center, University of Florida, Belle Glade, FL.
36. Evaluation of fungicides and biofungicides for the management of *Botryosphaeria dothidea* canker in redbud. **Pratima Subedi**, Terri Simmons, Sujan Dawadi, and Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.
37. Fungicide efficacy and accompanying influence of post-application precipitation for management of southern stem rot of peanut and examination of active ingredient co-application with micronized sulfur. **Daniel J. Anco**<sup>1</sup>, Justin Hiers<sup>1</sup>, and Brendan Zurweller<sup>2</sup>; <sup>1</sup>Clemson University, Clemson, SC, Mississippi State University, Mississippi State, MS.
38. Evaluation of fungicides to control phytophthora root rot on dogwood (*Cornus florida*). **Cansu Oksel**, Terri Simmons, Sujan Dawadi, Christina Jennings, Pratima Subedi, and Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.
39. On-farm studies of fungicides for managing peanut diseases in North Florida. **Nicholas Dufault**<sup>1</sup> and Keith Wynn<sup>2</sup>; <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>University of Florida, Jasper, FL.
40. A fungicide program case study designed for control of pecan scab populations in Texas orchards. **Paul Goetze**, Monte Nesbitt, and Young-Ki Jo; Texas A&M University, College Station, TX.
41. Cross-resistance between the biorational fungicide Howler EVO and the synthetic fungicide fludioxonil in *B. cinerea*. **Johanna Wesche**, Peishan Wu, James Faust, and Guido Schnabel; Clemson University, Clemson, SC.
42. Succinate dehydrogenase gene mutations confer fungicide resistance in *Venturia effusa*. **Saika Beerval**, Paul Goetze, and Young-Ki Jo; Texas A&M University, College Station, TX.
43. Fungicide resistance levels of *Clariireedia* spp. and efficacy of biofungicides on dollar spot of turfgrass in Georgia, USA. **Bochra A. Bahri**<sup>1</sup>, Ghimire Bikash<sup>1</sup>, Md. Aktaruzzaman<sup>2</sup>, Harshita Saxena<sup>1</sup>, Jonathan E. Oliver<sup>2</sup>, James W. Buck<sup>1</sup>, and Alfredo Martinez-Espinoza<sup>1</sup>; <sup>1</sup>University of Georgia, Griffin, GA, <sup>2</sup>University of Georgia, Tifton, GA.
44. Results from recent organic blueberry disease management field trials in Georgia (U.S.A.). **Jonathan E. Oliver**; University of Georgia, Tifton, GA.
45. Biofungicide use for the control of Phytophthium root rot in redbud (*Cercis canadensis*). **Christina Jennings**, Cansu Oksel, Sujan Dawadi, Terri Simmons, and Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.

46. Copper-tolerant and copper-sensitive *Xanthomonas campestris* isolated from two adjacent Florida cabbage fields. **Kiersten Fullem**, Mukesh Jain, Kristin Beckham, Frank F. White, and Nicholas Dufault; University of Florida, Gainesville, FL.
47. Efficacy of sanitizers in reducing plant-to-plant transfer of *Agrobacterium tumefaciens* using pruning shear. **Cansu Oksel**, Terri Simmons, Sujana Dawadi, and Fulya Baysal-Gurel; Tennessee State University, Knoxville, TN.
48. Novel therapies targeting *Candidatus Liberibacter asiaticus* in citrus phloem using antibiotics and single-chain antibodies. **Jorge E. Santiago Vazquez**<sup>1</sup>, Zhongwu Guo<sup>2</sup>, Robert Turgeon<sup>3</sup>, Nabil Killiny<sup>1</sup>, and Amit Levy<sup>1</sup>; <sup>1</sup>Citrus Research and Education Center, University of Florida, <sup>2</sup>Department of Chemistry, University of Florida, Gainesville, FL, <sup>3</sup>Cornell University, Ithaca, NY.
49. Elucidating the biochemical role of Alt proteins in thiosulfinate tolerance and virulence of *Pantoea ananatis*. **Simrandeep Kaur**, Vincent Starai, and Brian Kvitko; University of Georgia, Athens, GA.
50. Enhancing HLB management: Antibiotic rotations, combinations, and new therapeutics for Florida citrus. **Sanju Kunwar**<sup>1</sup>, Lauren Fessler<sup>1</sup>, Ana Redondo<sup>1</sup>, Kellee Britt-Ugartemendia<sup>2</sup>, and Ozgur Batuman<sup>1</sup>; <sup>1</sup>Southwest Florida Research and Education Center, University of Florida, Immokalee, FL, <sup>2</sup>MilliporeSigma, Rockville, MD.
51. The calcium-virulence connection: Conservation across *Xylella fastidiosa* strains. **Deekshya Adhikari**, Leonardo De La Fuente, and Deepak Shantharaj; Auburn University, Auburn, AL.
52. Identification of TALE DNA-binding domains using long-read sequencing. **Jose Huguet-Tapia**, Peiqi Zhang, Mukesh Jain, and Frank F. White; University of Florida, Gainesville, FL.
53. Invasion and spread of Asian citrus psyllids and HLB in Florida. **Susan E. Halbert**<sup>1</sup> and Nicholas Sizemore<sup>2</sup>; <sup>1</sup>Florida Department of Agriculture and Consumer Services, Gainesville, FL, <sup>2</sup>Johns Hopkins University, Baltimore, MD.
54. Bamboo Mosaic Virus detected in Florida crops using universal primer. **Donielle Turner**, Chun-Yi Lin, Chunxia Wang, Michael Rogers, and Amit Levy; Citrus Research and Education Center, University of Florida, Lake Alfred, FL.
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56. First virome outlook of the largest mango germplasm collection. **Alina S. Puig**<sup>1</sup>, Oscar Hurtado-Gonzales<sup>2</sup>, Xiaojun Hu<sup>2</sup>, Gul Ali<sup>3</sup>, and Angie Burgos Bastidas<sup>4</sup>; <sup>1</sup>Foreign Disease/Weed Science Research USDA-ARS, Fort Detrick, MD, <sup>2</sup>USDA-APHIS, Beltsville, MD, <sup>3</sup>Subtropical Horticulture Research, USDA-ARS, Miami, FL, <sup>4</sup>ORISE, Fort Detrick, MD.
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58. Watermelon chlorotic stunt virus: A new threat to cucurbit production in the United States. **William M. Wintermantel**; Crop Improvement and Protection Research, USDA ARS, Salinas, CA.
59. The root of the problem: Hop Latent Viroid alters metabolism of *Cannabis sativa*. **Ansley Burtch**<sup>1</sup>, Emily Lesinski<sup>2</sup>, MengLing He<sup>1</sup>, Scott Emrich<sup>3</sup>, and Kimberly Gwinn; <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>Purdue University, West Lafayette, IN, <sup>3</sup>Electrical Engineering and Computer Science, University of Tennessee, Knoxville, TN.
60. A comparison of viral concentration methods to detect Pepper mild mottle virus in water samples. Ramon Vega-Vázquez<sup>1</sup>, **Cecilia Hernández-Zepeda**<sup>2</sup>, Gabriela Rosiles-González<sup>2</sup>, and Oscar Moreno-Valenzuela<sup>2</sup>; <sup>1</sup>Universidad Tecnológica de Cancun, Cancun, Mexico, <sup>2</sup>The Yucatan Center for Scientific Research (Centro de Investigación Científica de Yucatán), Mérida, Mexico.
61. Unveiling major evolutionary events in betasatellite biodiversity associated with the cotton leaf curl disease complex in Pakistan, an unprecedented paradigm shift. Muhammad Javed Iqbal, Amir Raza, Dinusha Maheepala, and **Judith K. Brown**; University of Arizona, Tucson, AZ.
62. Dynamic genome variability associated with Cotton leaf curl disease geminiviruses in Pakistan. Amir Raza, Muhammad Javed Iqbal, and **Judith K. Brown**; University of Arizona, Tucson, AZ.
63. A recombination-aware Bayesian molecular clock analysis of cotton leafroll dwarf virus. Raphael O. Adegbola, Muhammad Javed Iqbal, Nathaniel D. Ponvert, Dinusha Maheepala, and **Judith K. Brown**; University of Arizona, Tucson, AZ.
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