



**AMERICAN PHYTOPATHOLOGICAL SOCIETY
101ST SOUTHERN DIVISION MEETING**

in conjunction with

**the Southern Plant Diagnostic Network and the North
Central (NCAC14) and Southern (SAC11) Advisory
Committees**



PROGRAM

**FEBRUARY 26 – 29, 2024
IN-PERSON MEETING**

2023 – 2024 SD-APS Officers

President

Daniel Anco

Clemson University
Edisto Research and Education Center
64 Research Road
Blackville, SC 29817
Email: danco@clermson.edu

President-Elect

Gary Vallad

University of Florida
Gulf Coast Research and Education Center
14625 CR 672
Wimauma, FL 33598
Email: gvallad@ufl.edu

Vice President

Bhabesh Dutta

University of Georgia
Tifton, CAES Campus
2630 Rainwater Road
Tifton, GA 31793
Email: bhabesh@uga.edu

Past President

Lindsey Thiessen

USDA APHIS PPQ
Domestic and Emergency Scientific Support
920 Main Campus Drive, Suite 500
Raleigh, NC 27606
Email: lindsey.thiessen@usda.gov

Secretary-Treasurer

Rebecca A. Melanson

Mississippi State University
Central MS Research and Extension Center
1320 Seven Springs Road
Raymond, MS 39154
Email: rebecca.melanson@msstate.edu

Divisional Forum Rep - Southern

Terry Spurlock

University of Arkansas System Division of
Agriculture
Lonoke Extension and Research Center
2001 Highway 70 E
Lonoke, AR 72086
Email: tspurlock@uada.edu

Graduate Student Representatives

Milan Panth

Clemson University
Edisto Research and Education Center
64 Research Road
Blackville, SC 29817
Email: mpanth@g.clemson.edu

Elias Zuchelli

West TN Research & Educ Ctr.
605 Airways Blvd.
Jackson, TN 38301
Email: ezuchell@tennessee.edu

2024-2025 SD-APS Incoming Officers

Vice President

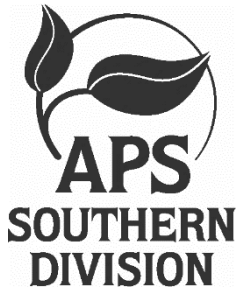
Rebecca A. Melanson

Mississippi State University
Central MS Research and Extension Center
1320 Seven Springs Road
Raymond, MS 39154
Email: rebecca.melanson@msstate.edu

Secretary-Treasurer

Katia Viana Xavier

University of Florida
Everglades Research and Education Center
3200 East Canal Street
Belle Glade, FL 33430
kvianaxavier@ufl.edu



AMERICAN PHYTOPATHOLOGICAL SOCIETY 101st SOUTHERN DIVISION MEETING PROGRAM

The 101st annual meeting of the American Phytopathological Society, Southern Division, is being held on February 26-29, 2024, in Columbia, SC, at the Hilton Columbia Center. The meeting is in-person. Unless otherwise specified, all program events will take place at the Hilton Columbia Center. ***The main program will take place in the Palmetto Ballroom;*** 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. Grab-and-go breakfast items will be available Tuesday and Wednesday morning. 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 attendee, you agree to allow the SD-APS to use your photo in APS publications and on the SD-APS website 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 #SDAPS2024.

Monday, February 26, 2024

8:00 AM – 12:00 PM **WORKSHOP: Southern Plant Diagnostic Network (SPDN) Core Accreditation Program**

Leader: **Carrie Harmon**, Co-Director, SPDN
Location: Yellow Jessamine & Carolina Wren

12:00 – 1:00 PM Lunch (on your own)

1:00 – 5:00 PM **SPDN Regional Business Meeting**

Leaders: **Carrie Harmon**, Co-Director, SPDN; **Jeff Jones**, Co-Director, SPDN; **Matt Bertone**, Director – Plant Disease and Insect Clinic, North Carolina State University
Location: Yellow Jessamine & Carolina Wren
Lunch provided for SPDN members.

3:00 – 4:30 PM **SD-APS Executive Committee Meeting**

Location: Palmetto Prefunction

- 6:00 – 7:00 PM **Registration**
Location: Palmetto Prefunction
- 6:00 – 8:00 PM **Welcome Reception and Poster Set Up**
Hors d'oeuvres provided for meeting attendees.
Location: Palmetto Prefunction

Tuesday, February 27, 2024

- 7:00 AM **Registration Opens**
- 7:00 – 8:00 AM Breakfast
Location: Palmetto Prefunction
- 8:00 – 8:15 AM **Welcome**
Daniel Anco, SD-APS President, Associate Professor, Plant and Environmental Sciences Department, Clemson University, Blackville, SC
Carlyle C. Brewster, Professor and Department Chair, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC

Graduate Student Research Competition (Session I), *Moderators: Milan Panth, SD-APS Graduate Student Representative, and Sarala Giri, SD-APS Graduate Student*

- 8:15 – 8:30 AM Assessment of fungicide application and timing for management of sweet potato southern blight and detection of pesticide residue levels. **Jack Mascarenhas**¹, Travis Gannon², Khalied Ahmed², Lina Quesada- Ocampo¹, and Hunter Collins¹; ¹North Carolina State University and North Carolina Plant Sciences Initiative, Raleigh, NC, ²North Carolina State University, Department of Crop and Soil Sciences, Raleigh, NC.
- 8:30 – 8:45 AM Effect of row spacing on areolate mildew development and cotton production. **Elias Zuchelli**, Heather Kelly, and Tyson Raper; University of Tennessee, Jackson, TN.
- 8:45 – 9:00 AM Characterization of resistance to leaf spot diseases in different peanut genotypes in field trial and light microscopy studies. **Fatima Florie May Silva**¹, Albert Culbreath¹, Robert Kemerait¹, Soraya Leal Bertioli¹, Emily Cantonwine², and Corley Holbrook³; ¹University of Georgia, Tifton, GA, ²Valdosta State University, Athens, GA, ³USDA-ARS, Tifton, GA.
- 9:00 – 9:15 AM Exporting intuition: utilizing natural language processing for unearthing allicin tolerance-like gene clusters across a spectrum of bacterial species. **Brendon Myers**, Brian Kvitko, and Bhabesh Dutta; University of Georgia, Tifton, GA.
- 9:15 – 9:30 AM Range of fungicide sensitivity in *Agroathelia rolfsii* from Georgia peanut fields and its effect on disease levels in the field. **Jessica Bell** and Timothy Brenneman; University of Georgia, Tifton GA.

Graduate Student Research Competition (Session I), continued

- 9:30 – 9:45 AM Unveiling the genetic diversity of grapevine red blotch virus in commonly grown interspecific hybrid grapevines in Texas. **Ashrafou Ouro-Djobo**¹, David Appel¹, Kristen Stevens², Maher Al Rwahnih², and Olufemi Alabi¹; ¹Texas A&M University, College Station, TX, ²University of California-Davis, Davis, CA.
- 9:45 – 10:00 AM The distinguished microbiome: Differentiating microbial dysbiosis and the pathobiome of banana Fusarium tropical race 4. **Vanessa Thomas**, Sanjay Antony-Babu, Young-Ki Jo, and Paul Goetze; Agrilife Extension-PLPM, Texas A&M University, College Station, TX.
- 10:00 – 10:15 AM BREAK: Networking

Graduate Student Research Competition (Session II), Moderators: Elias Zuchelli, SD-APS Postdoctoral Researcher and SD-APS Graduate Student Representative, and Karamjit Kaur Baryah, SD-APS Graduate Student

- 10:15 – 10:30 AM Comparative analysis of hemp and wheat *Fusarium graminearum* populations. **Henry Smith**, Edward Dixon, and Nicole Gauthier; University of Kentucky, Lexington, KY.
- 10:30 – 10:45 AM Field evaluation of post-plant fungicides for the control of tomato Fusarium wilt. **Jingya Yang** and Gary Vallad; Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.
- 10:45 – 11:00 AM Assessing germination and microbial colonization of *Athelia rolfsii* sclerotia under fumigant conditions in plasticulture tomato production. **Roshni Panwala**¹, Nathan Boyd¹, Samuel Martins², Sarah Strauss³, and Gary Vallad¹; ¹Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, ²University of Florida, Gainesville, FL, ³Southwest Florida Research and Education Center, University of Florida, Immokalee, FL.
- 11:00 – 11:15 AM Bioassays outperform PCR for detecting *Calonectria pseudonaviculata* conidia and microsclerotia in soil. **Anna Bass**, Paul Severns, and Jean Williams-Woodward; University of Georgia, Tifton.
- 11:15 – 11:30 AM Predicting Fusarium ear rot severity using genomic selection models and machine vision algorithms. **Owen Hudson**, Jeremy Brawner, Marcio Resende; University of Florida, Gainesville, FL.
- 11:30 – 11:45 AM Fungicide sensitivities for *Neofusicoccum caryigenum* causing the emerging pecan leaf dieback disease. **Erin Arthur** and Young-Ki Jo; Texas A&M University, College Station, TX.

Graduate Student Research Competition (Session II), continued

11:45 AM – 12:00 PM Identification and characterization of the first phytopathogenic subspecies in *Herbaspirillum huttiense*. **Mousami Poudel**¹, Anuj Sharma¹, Gerald Minsavage¹, David Norman², Erica Goss¹, Carrie Lapaire Harmon³, and Jeffery Jones¹; ¹University of Florida, Gainesville, FL, ²Mid Florida Research and Education Center, University of Florida, Apopka, FL, ³Plant Diagnostic Clinic, University of Florida, Gainesville, FL.

12:00 – 2:00 PM Lunch

12:00 – 2:00 PM **WORKSHOP: Careers 101 Workshop: Networking (registration required)**
Leader: Nicole Gauthier, University of Kentucky
Lunch provided for workshop pre-registrants.
Location: Junior Ballroom C
Sponsored by Corteva Agriscience

Graduate Student Research Competition (Session III), Moderators: Daniela Moreno, SD-APS Graduate Student, and Alex Ratay, SD-APS Undergraduate Student

2:00 – 2:15 PM Quorum sensing, swimming motility and exopolysaccharide production in *Pantoea* spp. are not responsible for center rot in Onion. **Anuj Lamichhane**, Gina Shin, Brian Kvitko, and Bhabesh Dutta; University of Georgia, Tifton, GA.

2:15 – 2:30 PM Field management decisions impact the soil faunal community and soybean yield potential. **Shelly Pate**¹, Lesley Schumacher², Heather Kelly¹; ¹University of Tennessee, Jackson, TN, ²USDA-ARS Jackson, TN.

2:30 – 2:45 PM Fungicide combinations with micronized sulfur for management of early and late leaf spot diseases in organic peanut production. **Alana Atkinson**¹, Albert Culbreath¹, Emily Cantonwine², Robert Kemerait¹; University of Georgia, Broxton, GA, ²Valdosta State University, Valdosta, GA.

2:45 – 3:00 PM Evaluation of biopesticides for managing bacterial spot of peach. **Junaed Ahmed**¹, Guido Schnabel¹, Hehe Wang²; ¹Clemson University, Clemson, SC, ²Edisto Research and Education Center, Clemson University, Blackville, SC.

3:00 – 3:15 PM Evaluation of active cyclonic sampling of aerosolized *Xanthomonas euvesicatoria* pv. *perforans* from tomato fields in Florida. **Renzo Ramirez**¹, Garrett Giles¹, Walter Mahaffee², Jeffery Jones³, and Gary Vallad¹; ¹Gulf Coast Research and Education Center, University of Florida, Wimauma, FL ²USDA-ARS Corvallis, OR, ³University of Florida, Gainesville, FL.

Graduate Student Research Competition (Session III), continued

- 3:15 – 3:30 PM Surface level sterilization techniques and their effect on DNA sampling within *Cannabis sativa*. **Justin Wong**, Henry Smith, Edward Dixon, Nicole Gauthier, and Misbakhul Munir; University of Kentucky, Lexington, KY.
- 3:30 – 3:45 PM Optimizing microbial consortia for enhanced soybean tolerance to drought stress: Insights for sustainable agriculture. **Sandeep Gouli**, Jonas Padilla, Rosalie Calderon, and Jong Hyun Ham; Louisiana State University Agricultural Center, Louisiana State University, Winnsboro, LA.
- 3:45 – 4:00 PM BREAK: Networking

Graduate Student Research Competition (Session IV), Moderators: Junaed Ahmed, SD-APS Graduate Student, and Annie Bruno, SD-APS Graduate Student

- 4:00 – 4:15 PM Exploring the association between soil microorganisms and *Phymatotrichopsis omnivora*. **Maxwell Sturdivant**, Thomas Isakeit, and Sanjay Antony-Babu; Texas A&M University, College Station, TX.
- 4:15 – 4:30 PM Areolate mildew and target spot: impact of cultivar selection and fungicide applications on disease severity and yield in Alabama cotton. **Karamjit Baryah**¹, Amanda Strayer-Scherer¹, Kathy Burch¹, Hunter Mote²; Auburn University, Auburn, AL, ²E.V. Smith Research Center Field Crop Unit, Auburn University, Shorter, AL.
- 4:30 – 4:45 PM Identification and characterization of the interrelationships between *Xylella fastidiosa* and host plants on diversified small fruit crop farms. **Alexandra Ratay** and Elizabeth Cieniewicz; Clemson University, Clemson, SC.
- 4:45 – 5:00 PM Using LiDAR technology with a commercial airblast sprayer for control of *Venturia effusa* in a Georgia pecan orchard. **Henry Herndon** and Timothy Brenneman; University of Georgia, Tifton, GA.
- 5:00 – 5:15 PM Overwintering capability of *Xanthomonas arboricola* pv. *pruni* strains with different chemical sensitivities in peach trees. **Milan Panth**¹, Guido Schnabel¹, Hehe Wang², and Enoch Noh¹; ¹Clemson University, Clemson, SC, ²Edisto Research and Education Center, Clemson University, Blackville, SC.
- 5:15 – 5:30 PM Host suitability of winter cover crops against the guava root-knot nematode. **Sagar GC** and Churamani Khanal; Clemson University, Clemson, SC.
- 5:30 – 6:00 PM BREAK: Networking & Poster Viewing

6:00 – 7:00 PM **Graduate Student/Post-doc Business Meeting & Networking Event**
Leaders: Milan Panth and Elias Zuchelli, SD-APS Graduate Student
Representatives
Light snacks provided for pre-registrants.
Location: Palmetto Ballroom

Wednesday, February 28, 2024

7:00 AM **Registration Opens**

7:00 – 8:00 AM Breakfast
Location: Palmetto Prefunction

8:00 – 9:45 AM **Symposium: Perspectives from Persevering**
Moderator: Dan Anco, SD-APS President

8:05 AM Navigating field trial challenges: How identifying fungicide efficacy
reductions can lead to a better understanding through molecular analysis. **Nick**
Dufault; University of Florida, Gainesville, FL

8:40 AM 40 years of advancing nematode management in South Carolina row crops.
John Mueller; Edisto Research and Education Center, Clemson University,
Blackville, SC.

9:10 AM Investigating alternative grape disease management approaches to prepare for
the future. **Mizuho Nita**; Alson H. Smith Jr. Agricultural Research and
Extension Center, Virginia Tech, Winchester, VA.

9:45 – 10:30 AM BREAK: Networking

10:30 – 11:30 AM **Symposium: Industry Sponsors**
Moderator: Dan Anco, SD-APS President

Martin D. Wiglesworth, Agronomy Services Manager, South & East Coast
Commercial Unit, Syngenta, Greensboro, NC

Autumn McLaughlin, Field Scientist, Corteva Agriscience

Shine Taylor, Southeast Field Development Representative, Gowan USA,
Bradenton, FL

Hannah Talton, Technical Service Representative PDP, BASF, Durham, NC

11:30 AM – 1:30 PM **Lunch and SD-APS Business Meeting**

1:30 – 2:00 PM BREAK: Networking & Poster Viewing

Oral Technical Session I, Moderators: Mausami Poudel, SD-APS Graduate Student, and Garner Powell, SD-APS Graduate Student

- 2:00 – 2:15 PM Advancements in tomato brown rugose fruit virus diagnosis: leveraging Raman spectroscopy for rapid and accurate detection, **Baylee Voigt**¹, Jake Ueckert¹, Dmitry Kurouski², Olufemi Alabi², Kevin Ong²; ¹Agrilife Extension Service, Texas A&M University, College Station, TX, ²Texas A&M University, College Station, TX.
- 2:15 – 2:30 PM Using a cyclonic air sampler to monitor the spread of *Xanthomonas euvesicatoria* pv. *perforans* during the production of tomato transplants. **Garrett Giles**¹, Walter Mahaffee², Renzo Ramirez¹, Jeffery Jones³, and Gary Vallad¹; ¹Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, ²USDA-ARS, Corvallis, OR, ³University of Florida, Gainesville, FL.
- 2:30 – 2:45 PM Screening of sweetpotato germplasm for anaerobic soil disinfestation and southern root-knot nematode resistance. **Simardeep Singh**, Churamani Khanal, and Matthew Cutulle; Clemson University, Clemson, SC.
- 2:45 – 3:00 PM Survival dynamics of *Phyllachora maydis* in the subtropical climate of Florida. **Vitor S. Moura**, Larissa Carvalho Ferreira, Alba Myers, Katia Xavier, and Marcio Resende; Everglades Research and Education Center, University of Florida, Belle Glade, FL.
- 3:00 – 3:15 PM Virus-bacteria co-infections in South Carolina peach orchards. **Daniela Negrete-Moreno**¹, Elizabeth Cieniewicz¹, Shaun Stice², and Hehe Wang³; ¹Clemson University, Clemson, SC, ²PathogenDX, Scottsdale, AZ, ³Edisto Research and Education Center, Clemson University, Blacksville, SC.
- 3:15 – 3:30 PM Identifying TSWV resistance in cultivated peanut using MAGIC peanut pangenome. **Ethan Thompson**¹, Hui Wang¹, Walid Korani², Albert Culbreath¹, Corley Holbrook³, Josh Clevenger², and Baozhu Guo³; ¹University of Georgia, Tifton, GA, ²HudsonAlpha Institute for Biotechnology, Huntsville, AL ³USDA-ARS, Tifton, GA.
- 3:30 – 3:45 PM Cross-inoculation of *Fusarium* spp. isolated from three crops in the Apiaceae. **Tarciso Ferreira Jr.**, Larissa Carvalho Ferreira, Katia Xavier, and Alba Myers; Everglades Research and Education Center, University of Florida, Belle Glade, FL.
- 3:45 – 4:00 PM BREAK

Oral Technical Session II, Moderators: Larissa Carvalho Ferreira SD-APS Postdoctoral Researcher, and Vitor Moura, SD-APS Graduate Student

- 4:00 – 4:15 PM Effect of nitrogen rate on black shank incidence, yield, and leaf quality in burley tobacco. **Ashton Turner**¹, Zachariah Hansen², and Mitchell Richmond¹; ¹University of Tennessee Jackson, TN, ²USDA-ARS, Ithica, NY.
- 4:15 – 4:30 PM Exploring the impact of rice-associated *Pantoea ananatis* on bacterial panicle blight of rice. **Jose Rojas-Iracheta**, Jobelle Bruno, John Christian Ontoy, and Jong Hyun Ham; Louisiana State University Agricultural Center, Louisiana State University, Winnsboro, LA.
- 4:30 – 4:45 PM Elucidating the etiology and pathogenicity of red rot on sugarcane in South Florida. **Fernanda Silva**¹, Mario Lucio Resende², Larissa Carvalho Ferreira¹, Katia Xavier¹, Olamide Rufus⁴; ¹Everglades Research and Education Center, University of Florida, Immokalee, FL, ²CNPQ, Federal University of Lavras, Lavras, Brazil, ⁴Kansas State University, Manhattan, KS.
- 4:45 – 5:00 PM Localization and comparison of soybean vein necrosis virus non-structural movement protein in plant and insect cells. **Michael Mayfield**, Abdelaal Shehata, and Kathleen Martin; Auburn University, Auburn, AL.
- 5:00 – 5:15 PM Nucleocapsid protein comparison between tomato spotted wilt virus and soybean vein necrosis virus: two important orthotospoviruses. **Abdelaal Shehata**, Amanda Strayer-Scherer, Alana Jacobson, and Kathleen Martin; Auburn University, Auburn, AL.
- 4:45 – 6:00 PM BREAK: Networking
- 6:00 – 9:00 PM **Awards Banquet**
Dinner provided with meeting registration or guest ticket.
Location: Palmetto Prefunction & Palmetto Ballroom

Thursday, February 29, 2024

- 8:00 AM – 2:00 PM **Field Trip: Congaree National Park (registration required)**
Transportation through carpooling will be coordinated among tour participants. Tour participants must meet in the Hilton lobby by 7:45 AM. The tour will depart at 8:00 AM and will return to the Hilton by 2:00 PM. Lunch will be provided for tour participants.
- 8:00 AM – 5:00 PM **NCAC14/SAC11 Business Meeting (registration required)**
This meeting is for NCAC14/SAC11 members only.
Location: Yellow Jessamine & Carolina Wren

Contributed Papers (Posters)

Posters will be displayed in the Palmetto Ballroom and must be up by 8:00 AM on February 27, 2024.

*Indicates student poster competition paper

- *1. Development of a recombinase polymerase amplification (RPA) assay for rapid detection of *Phytophthora capsici*. **Sarah Cochran**¹, Timothy Miles², and Lina Quesada-Ocampo¹; ¹North Carolina State University, ²Michigan State University.
- *2. Rapid and reliable detection of strobilurin resistance in the Cercospora leaf blight pathogen population infecting soybean. **Stephanie Ramos**¹, Ernesto Da Silva¹, David Moseley², Felipe Dalla Lana³, Vinson Doyle¹, and Sara Thomas-Sharma¹; ¹Louisiana State University AgCenter, Louisiana State University, ²Deen Lee Research and Extension Center, Louisiana State University, ³Rice Research Station, Louisiana State University.
- *3. Predisposition of peanut pods to kernel aflatoxin contamination by ring nematode. **Sarala Giri**, Daniel Anco, and John Mueller; EREC Plant and Environmental Sciences, Edisto Research and Education Center, Clemson University, Blackville, SC.
- *4. Fungal endophyte presence and diversity in *Gossypium hirsutum* undergoing various nutrient regimes. **Elizabeth Middleton**, Kira Bowen, and Zachary Noel; Auburn University, Auburn, AL.
- *5. What is the best way to use biocontrol and copper for management of center rot in onion? **Santosh Koirala** and Bhabesh Dutta; University of Georgia, Tifton, GA.
- *6. Identifying highly conserved effectors in *Xanthomonas euvesicatoria* pv. *perforans* from diverse geographic origins. **Apekshya Parajuli**, Jeffrey Jones, Anuj Sharma, Erica Goss, and Gerald Minsavage; University of Florida Gainesville, FL.
- *7. Harnessing the peach phyllosphere microbiome to combat *Xanthomonas arboricola* pv. *pruni*. **Jordan Marshall**¹, Hehe Wang², Enoch Noh¹; ¹Clemson University, Seneca, GA, ²Edisto Research and Education Center, Clemson University, Blackville, SC.
- *8. Analyzing the infection efficiency of CLRDV in *G. hirsutum* and *N. benthamiana* by agroinoculation. **Rachel Livingston**, Wilson Clark, and Kathleen Martin; Auburn University, Auburn, AL.
- *9. Pathogen and insect vector pressures of Pierce's disease-resistant grapevine cultivars in South Carolina. **Annie Bruno**, Juan Carlos Melgar, Elizabeth Cieniewicz, and Guido Schnabel; Clemson University, Clemson, SC.
- *10. Management of Alternaria leaf blight in carrot: comparing tractor and overhead sprinkler application of fungicides. **Chun-Hsiang Wang**, Susannah Da Silva, Jeffrey Rollins, Mathews Paret, Bob Hochmuth, and Derek Hurley; University of Florida, Gainesville, FL.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in the Palmetto Ballroom and must be up by 8:00 AM on February 27, 2024.

*Indicates student poster competition paper

- *11. The search for rose rosette virus in foliage and roots of roses. **Brenna Broussard**¹, Laura Miller¹, Jake Ueckert¹, and Kevin Ong²; ¹Texas A&M Agrilife Extension Service, Texas A&M University, ²Texas A&M University.
- *12. Dynamics of important peach viruses in different tree tissues over time. **Garner Powell** and Elizabeth Cieniewicz; Clemson University, Clemson, SC.
13. Characterization of *Alternaria brassicicola* from naturally infested broccoli seeds. **Navjot Kaur** and Bhabesh Dutta, University of Georgia; Tifton, GA.
14. Modeling the progress of gummy stem blight epidemics on watermelon with and without fungicide inputs. **Anthony Keinath**¹ and Daniel Anco²; ¹Coastal Research and Education Center, Charleston, SC, ²Edisto Research and Education Center, Clemson University, Blackville, SC.
15. Crop rotation affects soil microbiome diversity and composition in tobacco fields infested with *Phytophthora nicotianae*. **Ayodeji Bello**, T. David Reed, Yuan Zeng, and Priyanka Gangwar; Virginia Tech, Blacksburg, VA.
16. Early detection of cucurbit viruses from individual whitefly and plant samples using an efficient multiplex RT-qPCR approach. **Amirudeen Abdul Kader Jailani** and Mathews Paret; University of Florida, Gainesville, FL.
17. Effects of different shelling methods on data variability during field screening for reduced aflatoxin contamination in maize. **Alison Adams**¹, Shien Lu², Jake Fountain¹, Jesse Smith³, Daniel Jeffers³, Baozhu Guo⁴, and W. Paul Williams³; ¹University of Georgia, Griffin, GA, ²Mississippi State University, Mississippi State, MS, ³USDA- ARS, Tifton, GA, ⁴USDA-ARS, Tifton, GA.
18. Planting date and seeding rate impact diseases and yield parameters of three peanut cultivars in a rainfed production system in Alabama. **Austin Hagan**¹, Lee Campbell¹, Christopher Parker²; ¹Auburn University, Auburn, AL, ²Wiregrass Research and Extension Center, Auburn University, Headland, AL.
19. Evaluating genetic resistance, fungicides, and application timing to manage Fusarium head blight in soft red winter wheat in Louisiana. **Guy Boyd Padgett**¹, Dustin Ezell², Kelly Arceneaux³, Paul Price², Steve Harrison¹, and Fred Collins¹; ¹Dean Lee Research and Extension Center, LSU AgCenter, Louisiana State University, Winnsboro, LA, ²Macon Ridge Research Station, LSU AgCenter, Louisiana State University, Winnsboro, LA.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in the Palmetto Ballroom and must be up by 8:00 AM on February 27, 2024.

*Indicates student poster competition paper

20. Investigating the enigmatic etiology of tar spot complex of maize in Florida. **Larissa Carvalho Ferreira**, Katia Xavier, Vitor S. Moura, and Marcio Resende; Everglades Research and Education Center, University of Florida, Belle Glade, FL.
21. Packing line configurations for management of black rot of sweetpotato. **Hunter Collins** and Lina Quesada-Ocampo; North Carolina State University, Raleigh, NC.
22. KASP marker development for powdery mildew resistance in watermelon (*Citrullus lanatus*) using bulk segregant analysis (BSAseq) and RNAseq. **Rahul Kumar**¹, Chandrasekar Kousik¹, Sandra Branham³, Azeezahmed Shaik², Jennifer Ikerd¹, and W. Patrick Wechter³; ¹USDA- ARS, Charleston, SC, ²Clemson University, Clemson, SC, ³Coastal Research and Education Center, Charleston, SC, Clemson University, Clemson, SC.
23. Locally isolated bacteria reduced the growth of pathogens, hindered insect larva development, and transformed insect gut microbiota. **Anthony Adesemoye**¹, Sanjay Antony-Babu², Elek Nagy², Basu Kafle², Tristan Gregory², Caixing Xiong², and Henry Y. Fadamiro²; ¹USDA-ARS, Auburn, AL, ²Texas A&M University, College Station, TX.
24. The importance of reporting emerging pathogens of regulatory concern. **Lindsey Thiessen**; USDA APHIS PPQ S&T, Raleigh, NC.
25. Management data from uniform fungicide and spore trapping trials in an effort to build a cotton disease predictive model: two-year NPMTI trial results. **Paul Price**¹, Terry Spurlock², Akhtar Ali³, Mandy Bish⁴, Heather Kelly⁵, Robert Kemerait⁶, Daniel McDonald⁷, and John Mueller⁸; ¹Louisiana State University AgCenter, Louisiana State University, Winnsboro, LA, ²System Division of Agriculture, University of Arkansas, ³University of Tulsa, Tulsa, OK, ⁴University of Missouri, Columbia, MO, ⁵University of Tennessee, Jackson, TN, ⁶University of Georgia, Tifton, GA, ⁷Phenotype Screening Corporation, Knoxville, TN, ⁸Edisto Research and Education Center, Clemson University, Blackville, SC.
26. Fungicide options for QoI-resistant aerial blight, caused by *Rhizoctonia solani*, in soybean. **Paul Price**, Dustin Ezell, James Leonards, Fred Collins, Laura Lee, Jeremy Hebert, Jimmy Meaux, Guy Boyd Padgett, and Myra Purvis; Louisiana State University AgCenter, Louisiana State University, Winnsboro, LA.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in the Palmetto Ballroom and must be up by 8:00 AM on February 27, 2024.

*Indicates student poster competition paper

27. Foliar fungicide and application timing strategies to manage *Curvularia* leaf spot of corn in the southern United States. **Paul Price**¹, Thomas Allen², Travis Faske³, and Terry Spurlock³; ¹Louisiana State University AgCenter, Winnsboro, LA, ²Mississippi State University, Mississippi State, MS, ³System Division of Agriculture, University of Arkansas, Little Rock, AR.
28. Determining the regional distribution of *Corynespora cassiicola* through spore trapping at commercial cotton fields in 2021 and 2022. **Paul Price**¹, Kathy Lawrence², Tom Allen³, Zachary Noel², Kaitlyn Bissonnette⁴, Mandy Bish⁵, and Chase Floyd⁵; ¹Louisiana State University AgCenter, Louisiana State University, Winnsboro, LA, ²Auburn University, Auburn, AL, ³Mississippi State University, Mississippi State, MS, ⁴Cotton Incorporated, Cary, NC, ⁵University of Missouri, Columbia, MO.
29. Inhibitory effects of goldenseal (*Hydrastis canadensis* L.) extracts on fungal pathogens in American ginseng (*Panax quinquefolius* L.). **Ying Gao**; International Ginseng Institute, Middle Tennessee State University, Murfreesboro, TN.
30. Screening fungal plant pathogens for endohyphal bacteria affecting pathogenicity. **Dallas Nivens**, Morgan Carter, and Lauren Carneal; University of North Carolina, Charlotte, NC.
31. Localizing the movement (NSm) protein of tomato spotted wilt virus in *Nicotiana benthamiana*. **Alexandra Rios**, Abdelaal Shehata, and Kathleen Martin; Auburn University, Auburn, AL.
32. Morpho-molecular identification and management of squash powdery mildew in Pothwar, Pakistan. **Beenish Gul**¹, Farah Naz¹, Mathews Paret², Gulshan Irshad¹, Muhammad Shahid¹, and Aliya Tariq³; ¹Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, Punjab, Pakistan, ²University of Florida, Gainesville, FL ³Pest Warning and Qu, Punjab, Pakistan.
33. On-site detection of whitefly B and Q types using recombinase polymerase amplification integrated lateral flow test assay. **Megala Devi Balu**¹, Mathews Paret¹, T Sivasudha², Xavier Martini³, and Amirudeen Abdul Kader Jailani¹; ¹University of Florida, Gainesville, FL, ²Bharathidasan University, Tamil Nadu, India, ³North Florida Research & Education Center, University of Florida, Quincy, FL.
34. Evaluation of fungicide efficacy against *Alternaria* leaf blight of carrots in North Florida caused by *Alternaria* spp. **Susannah Da Silva**¹, Mathews Paret¹, and Robert Hochmuth²; ¹University of Florida, Gainesville, FL, ²Suwannee Valley Agricultural Extension Center, University of Florida, Live Oak, FL.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in the Palmetto Ballroom and must be up by 8:00 AM on February 27, 2024.

*Indicates student poster competition paper

- 35. Monitoring cotton soil-borne seedling diseases through isolation and soil metabarcoding. **Morgan Bragg**¹, Terry Spurlock², Ian Small³, Terry Wheeler⁴, Heather Kelly⁵, Chase Floyd⁶, Tom Allen⁷, and Zachary Noel¹; ¹Auburn University, Clemson, SC, ²System Division of Agriculture, University of Arkansas, Little Rock, AR ³University of Florida, Gainesville, FL, ⁴AgriLife Research Center, Texas A&M University, College Station, TX, ⁵University of Tennessee, Jackson, TN, ⁶University of Missouri, Columbia, MO, ⁷Delta Research and Extension Center, Mississippi State University, Stoneville, MS.
- 36. Fungicide sensitivity survey of pecan scab (*Venturia effusa*) populations in Texas pecan orchards. **Paul Goetze**, Young- Ki Jo, and Monte Nesbitt; Texas A&M University, College station, TX.
- 37. The underground world of plant disease: How does rhizosphere dysbiosis affect plant health above-ground? **Samuel Martins**, Toi Ketehouli, Josephine Pasche, Victor Buttros, and Erica Goss; University of Florida, Gainesville, FL.
- 38. A comprehensive tool-kit for *Pantoea* management in Vidalia onions in Georgia. **Bhabesh Dutta**, Mei Zhao, Gina Shin, and Brian Kvitko; University of Georgia, Tifton, GA.

2024 SD-APS Meeting Planning Committee

Dan Anco, SD-APS President
Gary Vallad, SD-APS President-Elect
Bhabesh Dutta, SD-APS Vice President
Rebecca A. Melanson, SD-APS Secretary-Treasurer
Milan Panth, SD-APS Graduate Student Representative
Elias Zuchelli, SD-APS Graduate Student Representative
Lindsey Thiessen, SD-APS Immediate Past President
Terry Spurlock, SD-APS Divisional Forum Representative
Carrie Harmon, Co-Director, SPDN
Steve Harris, NCAC14
Katia Viana Xavier, SD-APS Secretary-Treasurer (2024 – 2027)



See you next year in Florida!



2024 SPONSORS

The Southern Division appreciates the support of our sponsors:

