



**AMERICAN PHYTOPATHOLOGICAL SOCIETY
96TH SOUTHERN DIVISION MEETING**

PROGRAM

**FEBRUARY 7-9, 2019
GAINESVILLE, FLORIDA**

2018-2019 SD-APS Officers

President

Nicholas S. Dufault
University of Florida
Plant Pathology Department
1441 Fifield Hall
Gainesville, FL 32611
Email: nsdufault@ufl.edu

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

President-Elect

Chandraseker (Shaker) S. Kousik
USDA ARS
2700 Savannah Highway
Charleston, SC 29414
Email: shaker.kousik@ars.usda.gov

Divisional Forum Rep - Southern

Albert K. Culbreath
University of Georgia
Plant Pathology Department
2360 Rainwater Road
Tifton, GA 31793
Email: spotwilt@uga.edu

Vice President

Trey Price
LSU AgCenter
Macon Ridge Research Station
212A Macon Ridge Road
Winnsboro, LA 71295
Email: pprice@agcenter.lsu.edu

Graduate Student Representatives

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

Past President

Travis R. Faske
University of Arkansas
Lonoke Research and Extension Center
2001 Hwy 70 E, P.O. Box 357
Lonoke, AR 72086
Email: tfaske@uaex.edu

Tracy Hawk
University of Arkansas
Plant Sciences Building 217A
Fayetteville, AR 72701
Email: tehawk@email.uark.edu

2019-2020 SD-APS Vice President

Fulya Baysal-Gurel
Tennessee State University
Otis L. Floyd Nursery Research Center
472 Cadillac Lane
McMinnville, TN 37110
Email: fbaysalg@tnstate.edu



AMERICAN PHYTOPATHOLOGICAL SOCIETY

96th SOUTHERN DIVISION MEETING PROGRAM

The 96th annual meeting of the American Phytopathological Society, Southern Division, is being held February 7-9, 2019, in Gainesville, FL, at The Hilton University of Florida Conference Center Gainesville. Unless otherwise specified, all program events will take place at The Hilton; the main meeting room will be the Century C. Heavy hors d'oeuvres and a cash bar will be available at the Welcome Reception on Thursday evening. Grab-and-go breakfast items will be provided prior to the start of the scientific program on Friday. Additional details regarding transportation and meals are included in the program at the listing for each event.

Photographs will be taken during the meeting. 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 website and social media pages. As a courtesy to presenters, please *do not take photos* of posters or presentation slides without presenter approval.

Join us on Facebook! - “Like” and follow the **APS Southern Division** and the **APS Southern Division - Graduate Students** pages on Facebook! Document your experiences throughout the meeting and post your photos using **#SDAPS2019**.

Thursday, February 7, 2019

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|-----------------|--|
| 12:00 – 4:00 PM | Gainesville Fungal Foray
<i>Fungal Foray at the Paynes Prairie Preserve State Park</i>
<i>Meet in front of the Hilton no later than 11:45 AM.</i> |
| 4:00 – 5:00 PM | Executive Committee Meeting
<i>The Hilton (Room TBD)</i> |
| 6:00 – 8:00 PM | Welcome Reception
<i>The Hilton (Private Dining Room)</i> |

Friday, February 8, 2019

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|----------------|---|
| 7:00 – 9:00 AM | Breakfast (provided)
<i>The Hilton (Prefunction Area)</i> |
| 7:15 – 7:50 AM | Registration and Poster Setup (Posters #1-14)
<i>The Hilton (Century C and Prefunction Area)</i> |
| 7:50 – 8:15 AM | Welcome
Nicholas Dufault , SD-APS President |

- 7:50 – 8:15 AM **Welcome** (continued)
Jerry Fankhauser, Assistant Director, Florida Agricultural Experiment Station, University of Florida – Institute of Food and Agricultural Sciences
Rosemary Loria, Chair, Plant Pathology Department, University of Florida – Institute of Food and Agricultural Sciences
The Hilton (Century C)
- Graduate Student Research Competition (Session I: Diseases of Fruit Crops)**
Moderator: *Shaheen Bibi, SD-APS Graduate Student (University of Florida)*
- 8:15 – 8:30 AM *Colletotrichum* spp. causing fruit rots in Kentucky: investigating potential for cross-infection and developing improved tools for identification. **M. McCulloch**, E. Nuckles, L. Vaillancourt, and N. Gauthier; University of Kentucky, Lexington, KY.
- 8:30 – 8:45 AM A temporal analysis of the incidence of prune dwarf virus and prunus necrotic ringspot virus in stone fruit orchards in Texas. **S. Corinne Rhodes** and K. Ong; Texas A&M AgriLife Extension Service, College Station, TX.
- 8:45 – 9:00 AM Identification of *Xylella fastidiosa* subsp. *fastidiosa* from infected southern highbush blueberry (*Vaccinium* sp.) in Georgia. **D. Di Genova**, K. Lewis, and J. E. Oliver; University of Georgia, Tifton, GA.
- 9:00 – 9:15 AM Dynamic growth of *Phyllosticta citricarpa* in response to temperature and relative humidity. **C. Solomon**¹, N.-Y. Wang², J. Rollins³, and M. Dewdney¹; (1) Citrus Research and Education Center, University of Florida, Lake Alfred, FL, (2) Gulf Coast Research and Education Center, Wimauma, FL, (3) University of Florida, Gainesville, FL.
- 9:15 – 9:30 AM New insights into the disease cycle of orange cane blotch of blackberry and its management using potassium phosphite. **W. Hemphill**¹, P. M. Brannen², and J. E. Oliver¹; (1) University of Georgia, Tifton, GA, (2) University of Georgia, Athens, GA.
- 9:30 – 9:45 AM An emerging plantain soft rot caused by *Klebsiella variicola*. **J. Fulton**¹, S. Bec¹, J. Fayette¹, K. A. Garrett¹, C. L. Harmon², and R. C. Ploetz³; (1) Plant Pathology Department, University of Florida, Gainesville, FL, (2) University of Florida Plant Diagnostic Center, Gainesville, FL, (3) University of Florida, Homestead, FL.
- 9:45 – 10:00 AM Alternative fungicides for *Colletotrichum* crown rot management. **M. Oliveira**¹, L. Cordova¹, and N. Peres²; (1) University of Florida, Wimauma, FL, (2) Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.

10:00 – 10:30 AM BREAK: *Poster Viewing (Posters #1-14) and Networking*

Graduate Student Research Competition (Session II: Diseases of Vegetable Crops)

Moderator: Matt Borden, SD-APS Graduate Student (University of Florida)

10:30 – 10:45 AM Comparative transcriptome analysis between a resistant and a susceptible wild tomato accession in response to *Phytophthora parasitica*. **Z. Afzal** and G. S. Ali; University of Florida, Apopka, FL.

10:45 – 11:00 AM Characterization of ‘*Candidatus Liberibacter solanacearum*’ haplotype virulence and competitiveness in field-grown potatoes. **J. Trees**¹, I. E. Badillo-Vargas², L. Paetzold¹, F. Workneh¹, and C. M. Rush³; (1) Texas A&M AgriLife Research, Bushland, TX, (2) Texas A&M AgriLife Research, Weslaco, TX, (3) Texas A&M AgriLife Research, Amarillo, TX.

11:00 – 11:15 AM A novel alternative to copper bactericide: magnesium nano-materials for management of bacterial spot disease of tomato. **Y.-Y. Liao**¹, A. L. Strayer-Scherer², Z. Huang³, S. Santra³, J. C. White⁴, A. Mukherjee⁴, R. De La Torre-Roche⁴, Q. Fan⁵, S. Wright⁵, L. Ritchie⁵, J. Colee⁶, G. E. Vallad⁷, J. H. Freeman⁵, J. B. Jones⁸, and M. L. Paret⁵; (1) University of Florida, Gainesville, FL, (2) North Carolina State University, Waynesville, NC, (3) University of Central Florida, Orlando, FL, (4) Connecticut Agriculture Experiment Station, New Haven, CT, (5) University of Florida, Quincy, FL, (6) Department of Statistics, University of Florida, Gainesville, FL, (7) Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, (8) Department of Plant Pathology, University of Florida, Gainesville, FL.

11:15 – 11:30 AM Evaluation of nicotinamide adenine dinucleotide (NAD⁺) for the potential to manage fungal and bacterial diseases in vegetable crops. **Y. Huang**¹, S. Zhang², Q. Liu², and Z. Mou¹; (1) University of Florida, Gainesville, FL, (2) University of Florida, Homestead, FL.

11:30 – 11:45 AM Bactericidal activity of copper-zinc hybrid nanoparticles on *Xanthomonas perforans* and effect on Xanthomonadin. **R. Carvalho**¹, M. L. Paret², J. B. Jones¹, and K. Duman³; (1) Department of Plant Pathology, University of Florida, Gainesville, FL, (2) University of Florida, Quincy, FL, (3) University of Florida, NFREC, Quincy, FL.

11:45 – 12:00 PM Integrating data sources to forecast risk of cassava mosaic disease, an emerging threat in Southeast Asia. **K. F. Andersen**¹, E. Delaquis², Cu Thi Le Thuy³, N. Minato², J. P. Legg⁴, and K. A. Garrett¹; (1) Plant Pathology Department, University of Florida, Gainesville, FL, (2) International Center for Tropical Agriculture, Vientiane, Laos, (3) International Center for Tropical Agriculture, Hanoi, Vietnam, (4) International Institute of Tropical Agriculture, Dar Es Salaam, Tanzania.

- 12:00 – 12:15 PM Managing bacterial spot of pepper caused by *Xanthomonas euvesicatoria* using novel copper-composites. **Q. Fan**¹, Y.-Y. Liao², S. Kunwar², M. Young³, S. Santra⁴, J. B. Jones⁵, and M. L. Paret¹; (1) University of Florida, Quincy, FL, (2) University of Florida, Gainesville, FL, (3) NanoScience Technology Center and Burnett School of Biomedical Science, University of Central Florida, Orlando, FL, (4) University of Central Florida, Orlando, FL, (5) Department of Plant Pathology, University of Florida, Gainesville, FL.
- 12:15 – 2:15 PM **Student Workshop – “Careers 101 Workshop: Networking 101”**
 Leader: **Nicole Gauthier**, University of Kentucky
The Hilton (Private Dining Room)
Lunch provided for workshop preregistrants.
Sponsored by Corteva Agriscience
- 12:15 – 2:15 PM Lunch (on your own)
- 1:15 – 2:15 PM Poster Viewing (Posters #1-14)

Graduate Student Research Competition (Session III: Diseases of Agronomic Crops)
Moderator: Jeannie Klein-Gordon, SD-APS Graduate Student (University of Florida)

- 2:15 – 2:30 PM Streamlined production of *Medicago truncatula* root extracts for use against rice blast (*Magnaporthe oryzae*) disease. **K. Haydon** and K. Korth; University of Arkansas, Fayetteville, AR.
- 2:30 – 2:45 PM The effect of exogenous pectin amendments on soybean growth-promotion by PGPR. **M. Hassan**, J. McInroy, D. Shantharaj, M. Liles, and J. Kloepper; Auburn University, Auburn, AL.
- 2:45 – 3:00 PM Assessment of root protection by fluopyram-treated seed against *Meloidogyne incognita*. **T. Hawk**¹ and T. Faske²; (1) University of Arkansas, Fayetteville, AR, (2) University of Arkansas, Lonoke, AR.
- 3:00 – 3:15 PM Determining the sensitivity of *Xylaria* sp. to commercially available fungicide active ingredients. **H. Renfro**¹, T. Wilkerson², M. Tomaso-Peterson¹, and T. Allen²; (1) Mississippi State University, Starkville, MS, (2) Mississippi State University, Stoneville, MS.
- 3:15 – 3:30 PM In-vitro evaluation for measuring stem rot disease progress in peanut. **Y. C. Tsai**¹, T. Brenneman², and S. Leal-Bertioli¹; (1) University of Georgia, Athens, GA, (2) University of Georgia, Tifton, GA.
- 3:30 – 3:45 PM Management of Fusarium head blight of sorghum in North Carolina. **J. Beacorn** and L. Thiessen; North Carolina State University, Raleigh, NC.

3:45 – 4:15 PM BREAK: *Poster Viewing (Posters #1-14) and Networking*

Graduate Student Research Competition (Session IV: Diseases of Agronomic Crops and Turfgrass)

Moderator: Ying-Yu Liao, SD-APS Graduate Student (University of Florida)

- 4:15 – 4:30 PM Possible causes for late-reproductive stage development of *Cercospora* leaf blight of soybean. **M. Zivanovic**¹, B. Ward¹, P. Price², and Z.-Y. Chen¹; (1) Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA, (2) Macon Ridge Research Station, Louisiana State University, Winnsboro, LA.
- 4:30 – 4:45 PM Reduced aflatoxin contamination in transgenic maize lines containing a HIGS construct targeting *Aspergillus flavus* alkaline protease gene. **O. O. Omolehin**¹, Y. Raruang¹, Q. Wei², K. Rajasekaran², Deepak Bhatnagar² and Z.-Y. Chen¹; (1) Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA, (2) USDA-ARS, SRRC, New Orleans, LA.
- 4:45 – 5:00 PM Fungicide resistance screening for *Corynespora cassiicola*. **T. Smith** and H. Kelly; University of Tennessee, Jackson, TN.
- 5:00 – 5:15 PM New species of *Bipolaris* infecting industrial hemp in Kentucky. **D. Szarka**, S. Edwards, J. Jaromczyk, C. Schardl, and N. Gauthier; Department of Plant Pathology, University of Kentucky, Lexington, KY
- 5:15 – 5:30 PM An evaluation of plant-growth promoting rhizobacteria for management of *Meloidogyne incognita* on turfgrass. **W. Groover**, K. Lawrence, D. Held, and K. Carson; Auburn University, Auburn, AL.
- 5:30 – 5:45 PM Monitoring plant health and quantifying fungal root pathogens within ultradwarf bermudagrass putting greens. **M. A. Tucker**¹, A. Badial¹, J. King¹, T. N. Spurlock², and M. Tomaso-Peterson¹; (1) Mississippi State University, Mississippi State, MS, (2) University of Arkansas, Monticello, AR.
- 5:45 – 6:00 PM BREAK: *Poster Viewing (Posters #1-14) and Networking*
- 6:00 – 6:30 PM **Poster Session I: Contributed Papers (see page 9)**
Posters #1-14 (*all authors present*)
The Hilton (Prefunction Area)
- 6:30 – 6:45 PM Poster Breakdown (Posters #1-14)

7:00 – 9:00 PM **Graduate Student/Post-doc Social/Meeting**
Cypress and Grove Brewery
(Dinner provided for preregistered students and postdocs.)
Sponsored by Alltech Crop Science

7:00 PM Dinner (on your own)

Saturday, February 9, 2019

‡Indicates student presenter

7:30 – 8:00 AM Poster Setup (Posters #15-32)
The Hilton (Prefunction Area)

Technical Papers (Session I: Fungal Diseases)

Moderator: Trey Price, SD-APS Vice President

8:00 – 8:15 AM Detection of *Cercosporidium personatum* resistance to fungicides in South Carolina peanut. **M. Munir**^{1‡}, H. Wang¹, P. A. Agudelo², and D. J. Anco¹; (1) Clemson University, Blackville, SC, (2) Clemson University, Plant and Environmental Sciences Department, Clemson, SC.

8:15 – 8:30 AM Development of four locked nucleic acid-based real-time PCR assays for early detection of turfgrass root-infecting pathogens. **A. Badial**, M. Tomaso-Peterson, J. King, and M. A. Tucker; Mississippi State University, Mississippi State, MS.

8:30 – 8:45 AM Assessing the stability of reduced sensitivity to fentin hydroxide in the pecan scab pathogen *Venturia effusa*. **K. Herrington**[‡], K. L. Stevenson, J. R. Standish, and T. B. Brenneman; University of Georgia, Tifton, GA.

8:45 – 9:00 AM RNA-Seq analysis and de novo transcriptome assembly of *Phytophthora parasitica* treated with silver nanoparticles. **S. Bibi**^{1‡}, A. El-Sayed², J. C. Huguet-Tapia¹, and G. S. Ali²; (1) University of Florida, Gainesville, FL, (2) University of Florida, Apopka, FL.

9:00 – 9:15 AM BREAK: *Poster Viewing (Posters #15-32) and Networking*

Technical Papers (Session II: Population Distribution and Nematode Management)

Moderator: Travis Faske, SD-APS Immediate Past President

9:15 – 9:30 AM Population distributions and densities of plant parasitic nematodes in Tennessee and Kentucky field crops. **R. Akinrinlola**¹ and H. M. Kelly²; (1) University of Tennessee, Knoxville, TN, (2) University of Tennessee, Jackson, TN.

- 9:30 – 9:45 AM SALIBRO™ (Reklemel™ Active): a novel active ingredient for the control of plant parasitic nematodes in North America. **J. Temple**¹, T. Thoden², and J. A. Wiles³; (1) Corteva Agriscience, Bradenton, FL, (2) Corteva Agriscience, Neu Isenburg, Germany, (3) Corteva Agriscience, Bishops Stortford, United Kingdom.
- 9:45 – 10:00 AM Nematicide effects on non-target nematode ecological indices in bermudagrass. **B. Waldo**[†], W. Crow, and Z. Grabau; University of Florida, Gainesville, FL.
- 10:00 – 10:15 AM Vertical distribution of nematodes as influenced by crop rotation and irrigation. **L. Schumacher**¹, Z. J. Grabau¹, D. Wright², H.-L. Liao², and I. M. Small²; (1) University of Florida, Gainesville, FL, (2) University of Florida, Quincy, FL.
- 10:15 – 10:30 AM BREAK: *Poster Viewing (Posters #15-32) and Networking*

Oral Technical Papers (Session III: Viral and Bacterial Plant Diseases)

Moderator: Shaker Kousik, SD-APS President-Elect

- 10:30 – 10:45 AM Impact of plastic mulch and tomato cultivar on disease incidence of tomato chlorotic spot orthospovirus (TCSV). **Q. Liu**¹, B. Poudel¹, Q. Wang², and S. Zhang¹; (1) University of Florida, Homestead, FL, (2) Miami-Dade County Extension, Homestead, FL.
- 10:45 – 11:00 AM Virus community analysis to identify the underlying structure of plant-virus interactions. **R. Alcalá-Brise**[†] and K. Garrett; Plant Pathology Department, University of Florida, Gainesville, FL.
- 11:00 – 11:15 AM Current production practices, level of risk, and spotted wilt disease intensity in commercial peanut fields in Georgia. **C. Codod**^{1‡}, R. Kemerait¹, A. K. Culbreath¹, M. Abney², and G. G. Kennedy³; (1) University of Georgia, Department of Plant Pathology, Tifton, GA, (2) University of Georgia, Department of Entomology, Tifton, GA, (3) North Carolina State University, Raleigh, NC.
- 11:15 – 11:30 AM Gene cluster in onion bulb rotting bacteria contributes to virulence by conferring tolerance to reactive sulfur species. **S. Stice**^{1‡}, B. Dutta², and B. H. Kvitko¹; (1) University of Georgia, Athens, GA, (2) University of Georgia, Tifton, GA.
- 11:30 – 11:50 AM **APS Council's Update**
Mark Gleason, APS Vice President, Iowa State University, Ames, IA

12:00 – 1:15 PM Lunch (provided)
The Hilton (Private Dining Room and Live Oak Room)

Oral Technical Papers (Session IV: Diseases of Crop Plants and Student Advancement)

Moderator: Fulya Baysal-Gurel, 2019 SD-APS Vice-President

1:15 – 1:30 PM Evaluation of alternative fungicide spray programs for the management of bacterial spot on fresh-market tomatoes. **A. L. Strayer-Scherer, S. Sharpe, M. Henson, and I. Meadows**; North Carolina State University, Waynesville, NC.

1:30 – 1:45 PM Perfect storms: regional risk to agriculture from extreme weather events. **R. Choudhury** and K. Garrett; Plant Pathology Department, University of Florida, Gainesville, FL.

1:45 – 2:00 PM Graduate student presentation awards: harbingers of future success? **A. Culbreath**; Department of Plant Pathology, University of Georgia, Tifton, GA.

2:00 – 3:00 PM **Poster Session II: Contributed Student Papers (see page 11)**
Posters #15-32 (*Odd numbered authors present 2:00 – 2:30 PM; even numbered authors present 2:30 – 3:00 PM*)
The Hilton (Prefunction Area)

3:00 – 4:15 PM **SD-APS Business Meeting**
The Hilton (Century A)

4:15 – 4:30 PM Poster Breakdown (Posters #15-32)

5:30 – 9:00 PM **Social and Awards Banquet**
The Hilton (Century A)

Sunday, February 10, 2019

8:00 AM – 1:00 PM **Blueberry Tour**
Tour of Island Grove Ag Products
Meet in front of the Hilton no later than 7:45 AM.

Contributed Papers (Posters), Friday, February 8, 2019

1. Training field agents and educators with practical skills and diagnostic techniques. **N. Gauthier** and K. Leonberger; University of Kentucky, Lexington, KY.
2. Control of Phytophthora root rot and ambrosia beetles on flowering dogwood trees during simulated flood events. **F. Baysal-Gurel**, M. Brown, J. B. Oliver, and K. Addesso; Tennessee State University, McMinnville, TN.
3. First report of *Fusarium fujikuroi* species complex causing leaf spot on Ohio spiderwort (*Tradescantia ohiensis*). **S. Prentice**, B. S. Richter, R. Healy; University of Florida, Gainesville, FL.
4. A sterile system for studying peanut development. **A. Peper** and L. Yang; University of Georgia, Athens, GA.
5. Cropland connectivity: A risk factor for invasion and saturation by emerging pathogens and pests in the Caribbean. **Y. Xing**, J. Fayette, W. Dantes, J. Fulton, R. Choudhury, K. F. Andersen, and K. A. Garrett; Plant Pathology Department, Institute for Sustainable Food Systems, and Emerging Pathogens Institute, University of Florida, Gainesville, FL.
6. How the National Clean Plant Network safeguards U.S. berry crops. **I. Tzanetakis**¹ and R. Martin²; (1) University of Arkansas, Fayetteville, AR, (2) USDA ARS, Corvallis, OR.
7. Evaluation of snapbean genotypes for resistance to an emerging disease: cucurbit leaf crumple. **S. Kavalappara**¹, G. Agarwal¹, D. Choudhary¹, S. Gautam², R. Srinivasan², and B. Dutta¹; (1) University of Georgia, Tifton, GA, (2) University of Georgia, Griffin, GA.
8. The effects of soybean vein necrosis virus on soybean yield in West Tennessee. **R. Guyer**, L. Visioli, J. Lacey, and H. M. Kelly; University of Tennessee, Jackson, TN.
9. Field evaluation of soybean germplasm to reduce losses associated poor soybean grain quality in Mississippi soybean. **T. Wilkerson**¹, J. R. Smith², S. Li³, and T. W. Allen, Jr.; (1) Mississippi State University, Stoneville, MS, (2) USDA-ARS, Stoneville, MS, (3) USDA ARS CGRU, Stoneville, MS.
10. Comparative gene expression analyses of *Phytophthora parasitica* infecting periwinkle and citrus roots. **J. Wang**^{1,2}, Q. Zheng¹, C. Liu^{1,3,4}, M. Pitino¹, Q. Shi⁵, Z. Gao⁴, M. Wang⁴, J. Yin³, J. Zhu⁴, E. Stover⁵, R. Shatters⁵, P. Manosalva⁶, and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) Hebei Agricultural University, Baoding, China, (3) Hebei North University, Zhangjiakou, China, (4) Hebei Agricultural University, Baoding, China, (5) USDA-ARS, Fort Pierce, FL, (6) University of California, Riverside, CA.

11. Transcriptome analysis of *Phytophthora parasitica* during infection in *Nicotiana benthamiana*. **Q. Zheng**¹, G. Liu^{1,2}, M. Pitino¹, Q. Shi³, B. Liu², T. Pan^{1,4}, D. Pan⁴, L. Rossi¹, E. G. Johnson⁵, E. Stover³, R. Shatters³, P. Manosalva⁶, and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) Fujian Academy of Agricultural Sciences, Fuzhou, China, (3) USDA-ARS, Fort Pierce, FL, (4) Fujian Agriculture and Forestry University, Fuzhou, China, (5) University of Florida, Lake Alfred, FL, (6) University of California, Riverside, CA.
12. Gene expression analysis of periwinkle infected with *Candidatus Liberibacter asiaticus*, the causal agent of huanglongbing disease in citrus. **Q. Zheng**¹, **M. Pitino**¹, Y. Duan², and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) USDA-ARS, Fort Pierce, FL.
13. Improved annotation of the nucleotide-binding domain leucine-rich repeat containing NLR gene family in citrus. **Q. Zheng**¹, M. Pitino¹, S. Saha², M. Flores², P. Hosmani², L. Mueller², and **L. M. Cano**¹; (1) University of Florida, Fort Pierce, FL, (2) Boyce Thompson Institute, Ithaca, NY
14. Inpyrfluxam: a new active ingredient for control of diseases of specialty and row crops. **K. Seebold**; Valent USA LLC, Lexington, KY.

2019 SD-APS Meeting Planning Committee

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Shaker Kousik, SD-APS President-Elect
Trey Price, SD-APS Vice President
Rebecca A. Melanson, SD-APS Secretary-Treasurer
Travis R. Faske, Immediate Past President
Albert Culbreath, SD-APS Divisional Forum Representative
Michelle Souza Oliveira, SD-APS Graduate Student Representative
Tracy Hawk, SD-APS Graduate Student Representative
Nicole Gauthier, University of Kentucky

See you next year in Charleston, South Carolina!

Contributed Student Papers (Posters), Saturday, February 9, 2019

*Indicates student poster competition contestant

15. Occurrence and investigation of peach skin streaking in South Carolina peach orchards. **L. Schmitz*** and G. Schnabel; Clemson University, Clemson, SC.
16. Effectiveness of biological control agents and host resistance for the management of Granville wilt (*Ralstonia solanacearum*) of tobacco. **R. Garcia*** and L. Thiessen; North Carolina State University, Raleigh, NC.
17. CRISPR/Cas9-mediated endogenous gene tagging in *Fusarium oxysporum*. **Q. Wang*** and J. Coleman; Auburn University, Auburn, AL.
18. Response of root-knot nematode (*Meloidogyne incognita*) and saponin content of quinoa (*Chenopodium quinoa*). **N. Soltani***, E. Bernard, K. Gwinn; University of Tennessee, Knoxville, TN.
19. Evaluation of current and future methods of the National Cottonseed Treatment Trial. **S. Pate***, H. Kelly, R. Guyer; University of Tennessee, Jackson, TN.
20. Characterization of resistance to *Ustilago maydis* in teosinte and two maize-teosinte introgressed near isogenic lines. **U. Bhatta*** and S. Smith; University of Georgia, Athens, GA.
21. Effect of new non-fumigant nematicides on different trophic groups of nematodes. **D. Moreira*** and J. Desaegeer; University of Florida, Gulf Coast Research and Education Center, Wimauma, FL.
22. Comparison of RNA extracts from two extraction methods for Rose rosette virus detection. **K. Olive**, M. Shires, K. Ong; Texas A&M University, College Station, TX.
23. Preliminary volatile analysis from RRV-infected roses. **A. Fife**, M. Paret, and X. Martini; University of Florida, Quincy, FL.
24. Interaction between the effector proteins HopD1 from *Pseudomonas syringae* pv. *tomato* DC3000 with the *Arabidopsis thaliana* protein AtNHR2B. **C. Rodriguez-Porto**, C. Rojas, and R. Singh; University of Arkansas, Fayetteville, AR.
25. Gene expression analysis of *Colletotrichum acutatum* during infection in strawberry. **E. Ozbudak**¹, D. Oppelaar¹, M. Pitino¹, P. Hosmani², N. Peres³, and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) Boyce Thompson Institute, Ithaca, NY, (3) Gulf Coast Research and Education Center; University of Florida, Wimauma, FL.

26. Secretome annotation of the citrus stem end rot fungal pathogen *Diplodia natalensis*. **E. Ozbudak**¹, G. Liu^{1,2}, Q. Zheng¹, Y. Lin¹, B. Liu², P. Hosmani³, S. Saha³, L. Mueller³, M. A. Ritenour¹, and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) Fujian Academy of Agricultural Sciences, Fuzhou, China, (3) Boyce Thompson Institute, Ithaca, NY.
27. Impact of ‘*Candidatus Liberibacter solanacearum*’ haplotypes on seed potato sprouting. **J. Trees**¹, L. Paetzold¹, F. Workneh¹, and C. M. Rush², (1) Texas A&M AgriLife Research, Bushland, TX, (2) Texas A&M AgriLife Research, Amarillo, TX.
28. First report of *Colletotrichum siamense* on *Smilax rotundifolia* in the Southeast United States. **J. Hickman**¹, R. Healy², P. S. Soria², M. Velez-Climent², and B. S. Richter²; (1) University of Florida, Department of Plant Pathology, Gainesville, FL, (2) University of Florida, Gainesville, FL.
29. Banana and plantain disease risk in Haiti: diagnostic networks, seed networks, and cropland connectivity. **W. Dantes**, J. Fayette, J. Fulton, Y. Xing, K. F. Andersen, M. Divers, and K. A. Garrett; Plant Pathology Department, University of Florida, Institute for Sustainable Food Systems, and Emerging Pathogens Institute, Gainesville, FL.
30. Dual transcriptomic analysis of the anthracnose fungal pathogen *Colletotrichum gloeosporioides* infecting avocado. **C. Liu**^{1,2,3}, Q. Zheng¹, P. Hosmani⁴, S. Saha⁴, L. Mueller⁴, Y. Lin¹, J. Zhu², J. Yin³, B. Scully⁵, P. Manosalva⁶, and L. M. Cano¹; (1) University of Florida, Fort Pierce, FL, (2) Hebei Agricultural University, Baoding, China, (3) Hebei North University, Zhangjiakou, China, (4) Boyce Thompson Institute, Ithaca, NY, (5) USDA-ARS, Fort Pierce, FL, (6) University of California, Riverside, CA.
31. Effect of sulfur on efficacy of fungicides on pecan scab. **C. Brown**¹, T. B. Brenneman², and A. K. Culbreath²; (1) University of Georgia, Baconton, GA, (2) University of Georgia, Department of Plant Pathology, Tifton, GA.
32. Optimal parameters for conditioning sclerotia of Southeastern U.S. isolates of *Sclerotinia sclerotiorum*. **C. Gorman** and K. Bowen; Auburn University, Auburn, AL.

Past and Future SD-APS Meeting Locations

2015	Atlanta, Georgia	2019	Gainesville, Florida
2016	Wimauma, Florida	2020	Charleston, South Carolina
2017	College Station, Texas	2021	Baton Rouge, Louisiana
2018	Fayetteville, Arkansas	2022	Chattanooga, Tennessee

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