

Southern Division – American Phytopathological Society

Saturday, January 31, 2015

- 4:00 – 8:00 pm APS Division Forum Representatives Meeting (by invitation only)
– *Westin Peachtree Plaza, Chastain G*
- 6:00 – 8:00 pm Southern Division APS Executive Committee Meeting (committee only)
– *Westin Peachtree Plaza, Chastain B*
- 6:00 – 7:00 pm Early professionals meeting – Phillip Vines, SDAPS Graduate Student Representative, presiding
– *Westin Peachtree Plaza, Chastain C*

Sunday, February 1, 2015

- 6:30 – 7:30 am Registration – *Westin Peachtree Plaza, Augusta Ballroom C*

SYMPOSIUM: Fungicide Resistance – Tom Allen, SDAPS President, presiding
– *Westin Peachtree Plaza, Augusta Ballroom C*

7:30 – 7:50 am – Fungicide resistance in turfgrass systems: A case study in benzimidazole and QoI resistance. M. TOMASO-PETERSON; Mississippi State University, Mississippi State, MS, USA.

7:50 – 8:10 am – Resistance to fungicides in pathogens of stone and small fruits. G. SCHNABEL; Clemson University, Clemson, SC, U.S.A.

8:10 – 8:30 am – Experiences with fungicide resistance in Florida citrus. M. DEWDNEY; Citrus Research and Education Center, University of Florida, Lake Alfred, FL, U.S.A.

8:30 – 8:50 am – Development of fungicide resistance in the pecan scab pathogen and challenges for disease management. K. STEVENSON; University of Georgia, Tifton, GA, U.S.A.

8:50 – 9:10 am – Prevalence of fungicide resistance in Louisiana soybean and rice. P. PRICE (1), M. Purvis (1), H. Pruitt (1), C. Hollier (2), R. Schneider (2), D. Groth (3), and B. Padgett (4); (1) LSU AgCenter, Winnsboro, LA, U.S.A.; (2) LSU AgCenter, Baton Rouge, LA, U.S.A.; (3) LSU AgCenter, Crowley, LA, U.S.A.; (4) LSU AgCenter, Alexandria, LA, U.S.A.

9:10 – 9:20 am – Discussion

9:20 – 9:30 am – **BREAK**

STUDENT PRESENTATIONS – Session I – Nicole Ward Gauthier, President-elect, presiding

– *Westin Peachtree Plaza, Augusta Ballroom C*

9:30 – 9:45 am – Fungal colonization and cercosporin and flavonoid concentrations for two different symptoms of *Cercospora* leaf blight in soybean. E. CHAGAS FERREIRA DA SILVA (1), T. G. Garcia Aroca (1), V. Lygin (2), A. K. Chanda (3), C. L. Robertson (1), B. M. Ward (1), and R. W. Schneider (1); (1) Louisiana State University AgCenter, Baton Rouge, LA, U.S.A.; (2) University of Illinois, Urbana, IL, U.S.A.; (3) University of Minnesota, Crookston, MN, U.S.A.

9:45 – 10:00 am – An evaluation of *Cercospora arachidicola* epidemic subprocesses as confirmation of field observations. L. GONG and K. Bowen; Auburn University, Auburn, AL, U.S.A.

10:00 – 10:15 am – Effect of fungicides on chlorophyll content, yield, and test weight of winter wheat in the absence of foliar disease. N. GRAF GRACHET, R. M. Hunger, M. E. Payton, and J. T. Edwards; Oklahoma State University, Stillwater, OK, U.S.A.

10:15 – 10:30 am – Discovery of different carlaviruses infecting elderberry. T. HO and I. E. Tzanetakis; University of Arkansas, Fayetteville, AR, U.S.A.

10:30 – 10:45 am – Induction of systemic resistance in Chinese cabbage against black rot by plant growth-promoting rhizobacteria. K. LIU, C. Garrett, J. W. Kloepper, and J. A. McInroy; Auburn University, Auburn, AL, U.S.A.

10:45 – 11:00 am – Investigation of the potential disease complex concerning *Pythium aphanidermatum* and *Meloidogyne incognita* on cucumber. K. A. MORRIS (1) and D. B. Langston (2); (1) University of Georgia, Tifton, GA, U.S.A.; (2) Virginia Tech, Suffolk, VA, U.S.A.

11:00 – 11:15 pm – Characterization of *Colletotrichum* species causing bitter rot of apple in Kentucky orchards. M. MUNIR, E. Dixon, B. Amsden, and N. W. Gauthier; Department of Plant Pathology, University of Kentucky, Lexington, KY, U.S.A.

11:15 – 11:30 pm – Characterization of *Pseudomonas syringae* associated with watermelon and squash disease outbreaks in Florida and Georgia. E. A. NEWBERRY (1), M. L. Paret (1), J. B. Jones (2), L. Ritchie (1), J. H. Freeman (1), N. S. Dufault (2), B. Babu (1), E. M. Goss (3), G. E. Vallad (4), P. D. Roberts (5), B. Hochmuth (6), A. Drew (7), and K. Beckham (2); (1) North Florida Research and Education Center, University of Florida, Quincy, FL, U.S.A.; (2) University of Florida, Gainesville, FL, U.S.A.; (3) University of Florida, Gainesville, U.S.A.; (4) Gulf Coast Research and Education Center, University of Florida, Balm, FL, U.S.A.; (5) South West Florida Research and Education Center, University of Florida, Immokalee, FL, U.S.A.; (6) Suwannee Valley Agricultural Extension Center, University of Florida, Live Oak, FL, U.S.A.; (7) Levy County Extension, University of Florida, Bronson, FL, U.S.A.

11:30 – 11:45 pm – Effect of thiophanate-methyl and prothioconazole fungicides on asexual life stages of *Fusarium oxysporum* f. sp. *niveum* from watermelon. A. PETKAR (1), D. Langston (2), K. Stevenson (1), J. Buck (3), and P. Ji (1); (1) University of Georgia, Tifton, GA, U.S.A.; (2) Virginia Tech, Suffolk, VA, U.S.A.; (3) University of Georgia, Griffin, GA, U.S.A.

11:45 – 12:00 pm – Evaluation of sodium selenate as a seed disinfestant to eradicate *Xanthomonas vesicatoria*, *X. euvesicatoria*, and *X. perforans* on pepper and tomato seeds. M. SHAHRTASH (1) and M. L. Lewis Ivey (2); (1) Louisiana state University, Baton Rouge, LA, U.S.A.; (2) LSU AgCenter, Baton Rouge, LA, U.S.A.

12:00 – 1:00 pm – **LUNCH BREAK**

STUDENT PRESENTATIONS – Session II – Nicole Ward Gauthier, President-elect presiding

– *Westin Peachtree Plaza, Augusta Ballroom C*

1:00 – 1:15 pm – Characterization of soybean and its wild relatives host resistance and Asian soybean rust (ASR) pathogen variability for durable resistance. P. TIAN and S. M. Smith; University of Georgia, Athens, GA, U.S.A.

1:15 – 1:30 pm – Characterization of *Pseudomonas viridiflava* causing bacterial speck-like symptoms on tomato in Florida. S. TIMILSINA (1), H. Adkison (1), J. B. Jones (2), and G. E. Vallad (1); (1) Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, U.S.A.; (2) University of Florida, Gainesville, FL, U.S.A.

1:30 – 1:45 pm – Biological potential of *Bacillus* spp. to reduce the populations of *Heterodera glycines* and promote plant growth in soybean. N. XIANG and K. S. Lawrence; Auburn University, Auburn, AL, U.S.A.

1:45 – 2:00 pm – Isolation and assessment of P-solubilizing bacteria from switchgrass (*Panicum virgatum* L.) for plant growth promotion and nutrient uptake. J. XU and J. W. Kloepper; Auburn University, Auburn, AL, U.S.A.

2:00 – 2:15 pm – The effect of oscillating temperatures on the growth rate of *Sclerotium rolfsii*. R. L. BAROCCO and N. S. Dufault; University of Florida, Gainesville, FL, U.S.A.

2:15 – 2:30 pm – Evaluation of systemic fungicides in pecans and implications for disease management. K. A. BROWN and T. B. Brenneman; University of Georgia, Tifton, GA, U.S.A.

2:30 – 2:45 pm – Influence of application technology on foliar fungicide efficacy in *Cercospora soja* infected soybeans. S. A. BUTLER (1), H. Young-Kelly (1), and G. Kruger (2); (1) University of Tennessee, Jackson, TN, U.S.A.; (2) University of Nebraska, North Platte, NE, U.S.A.

2:45 – 3:00 pm – Frogeye leaf spot response to solo and combination fungicides; A. M. COCHRAN (1), H. M. Kelly (2), K. Lamour (1), W. J. Jordan (2), and B. P. Vega (2); (1) The University of Tennessee, Knoxville, TN, U.S.A.; (2) The University of Tennessee, Jackson, TN, U.S.A.

3:00 – 3:15 pm – Screening winter canola for seedling resistance to black leg. C. I. DIAZ and J. Damicone; Oklahoma State University, Stillwater, OK, U.S.A.

3:15 – 3:30 pm – Nematodes associated with edamame, *Glycine max* L. (Merr.), and their effect on yield and quality in Arkansas. J. E. FULTZ (1) and T. Kirkpatrick (2); (1) University of Arkansas, Fayetteville, AR, U.S.A.; (2) University of Arkansas, Hope, AR, U.S.A.

3:15 – 3:30 pm – Assessment of fluopyram for management of *Meloidogyne incognita* on soybean. C. S. JACKSON (1), T. R. Faske (2), and M. Emerson (2); (1) University of Arkansas, Department of Plant Pathology, Fayetteville, AR, U.S.A.; (2) University of Arkansas, Division of Agriculture, Cooperative Extension Service, Lonoke, AR, U.S.A.

3:30 – 3:45 pm – **BREAK**

4:00 – 4:15 pm – **SAAS Business Meeting**
– *Westin Peachtree Plaza, Augusta Room 1*

4:15 – 5:00 pm – **SAAS General Session**
– *Westin Peachtree Plaza, Augusta Room 1*

6:00 – 10:00 pm – **SAAS Reception/Super Bowl Party**
– *Off-site, to be announced*

Monday, February 2, 2015

6:30 – 7:30 am – Registration –
– *Westin Peachtree Plaza, Augusta Ballroom C*

STUDENT PRESENTATIONS – Session III – Jason Woodward, SDAPS Past-President, presiding
– *Westin Peachtree Plaza, Augusta Ballroom C*

7:00 – 7:15 am – On-farm application of supplemental chloropicrin to improve Fusarium wilt control in tomato. T. P. JACOBY, G. Vallad, and N. Boyd; University of Florida, Wimauma, FL, U.S.A.

7:15 – 7:30 am – Seasonal dynamics and the impacts of fungicide use on the diversity of pathogens causing brown patch of tall fescue. A. KOEHLER and H. D. Shew; NCSU Plant Pathology, Raleigh, NC, U.S.A.

7:30 – 7:45 am – Evaluation of cotton (*Gossypium hirsutum*) cultivars and their responses to nematicide seed treatments and its physiology. C. LAND, K. S. Lawrence, and P. Cobine; Auburn University, Auburn, AL, U.S.A.

7:45 – 8:00 am – The control of cotton root rot in Texas winegrapes with the fungicide flutriafol. S. A. MCBRIDE and D. N. Appel; Texas A&M University Department of Plant Pathology and Microbiology, College Station, TX, U.S.A.

8:00 – 8:15 am – Evaluating fungicide sensitivity of regional *Blumeria graminis* f.sp. *tritici* populations in the United States. E. MEYERS, R. Parks, C. Arellano, and C. Cowger; North Carolina State University, Raleigh, NC, U.S.A.

8:15 – 8:30 am – Evaluation of burrower bug (*Pangaeus bilineatus*) incidence compared to subsequent aflatoxin contamination in peanuts (*Arachis hypogaea*) in the Southeastern United States. R. E. PREVATT, III and K. L. Bowen; Auburn University, Auburn, AL, U.S.A.

8:30 – 8:45 am – An investigation into QoI resistance in isolates of *Cercospora sojina* throughout Mississippi soybean production fields. J. R. STANDISH (1), M. Tomaso-Peterson (1), T. W. Allen (2), S. Sabanadzovic (1), and N. Aboughanem-Sabanadzovic (1); (1) Mississippi State University, Mississippi State, MS, U.S.A.; (2) Mississippi State University, Stoneville, MS, U.S.A.

8:45 – 9:00 am – Fungicides for controlling sugar beet diseases in Georgia. T. N. TORRANCE (1), T. B. Breneman (1), and T. M. Webster (2); (1) Department of Plant Pathology, University of Georgia, Tifton, GA, U.S.A.; (2) Crop Protection and Mgt. Research Unit, USDA ARS, Tifton, GA, U.S.A.

9:00 – 9:15 am – Evaluating novel ectotrophic root-infecting fungi as possible etiological agents for summer decline of ultradwarf bermudagrass. P. L. VINES (1), M. Tomaso-Peterson (2), and T. Allen (2); (1) Mississippi State University, Starkville, MS, U.S.A.; (2) Mississippi State University, Mississippi State, MS, U.S.A.

9:15 – 9:30 am – **BREAK**

STUDENT PRESENTATIONS – Session IV – Gary Vallad, SDAPS Secretary/Treasurer, presiding

– Westin Peachtree Plaza, Augusta Ballroom C

9:30 – 9:45 am – Foliar applications of minor elements suppress *Cercospora* leaf blight and rust in soybeans. B. M. WARD, C. L. Robertson, R. W. Schneider, E. Chagas Ferreira da Silva, and T. G. Garcia Aroca; LSU AgCenter, Baton Rouge, LA, U.S.A.

9:45 – 10:00 am – Suppression of charcoal rot in soybean caused by *Macrophomina phaseolina* using secondary nutrients. T. WILKERSON (1), M. Tomaso-Peterson (2), B. Golden (1), S. Lu (2), A. B. Johnson (2), and T. W. Allen (1); (1) Mississippi State University, Delta Research

and Extension Center, Stoneville, MS, U.S.A.; (2) Mississippi State University, Starkville, MS, U.S.A.

10:00 – 10:15 am – Impact of current production practices in peanut on the development of *Tomato spotted wilt virus* in southeast United States. B. W. WILLIAMS (1), R. Kemerait (1), A. Culbreath (1), and R. S. Tubbs (2); (1) Department of Plant Pathology, University of Georgia, Tifton, GA, U.S.A.; (2) Department of Crop and Soil Sciences, University of Georgia, Tifton, GA, U.S.A.

10:15 – 10:30 am – Complete genome sequences of nine isolates of *Canna yellow streak virus* reveal its relationship to *Sugarcane mosaic virus* subgroup of potyviruses, intraspecies genetic diversity and expands the natural host range of SCMV subgroup of potyviruses. R. P. CHAUHAN, P. Rajakaruna, and J. Verchot; Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK, U.S.A.

10:30 – 10:45 am – Impact of outer membrane protein MopB on the biofilm formation of *Xylella fastidiosa*. H. CHEN, P. P. Kandel, J. Parker, L. Cruz, and L. De La Fuente; Auburn University, Auburn, AL, U.S.A.

10:45 – 11:00 am – Aflatoxin production and oxidative stress in *Aspergillus flavus*. J. C. FOUNTAIN (1), L. Yang (1), P. Khera (2), R. C. Kemerait (1), R. D. Lee (1), B. T. Scully (3), R. K. Varshney (2), and B. Guo (4); (1) University of Georgia, Tifton, GA, U.S.A.; (2) International Crops Research Institute for the Semi-Arid Tropics, Hyderabad, India; (3) USDA-ARS, Fort Pierce, FL, U.S.A.; (4) USDA-ARS, Tifton, GA, U.S.A.

11:00 – 11:15 am – Genetic recombination of *Xylella fastidiosa* cultured in microfluidic chambers with grapevine sap. P. P. KANDEL; Auburn University, Auburn, AL, U.S.A.

11:15 – 11:30 am – Development of 5' nuclease probes for detection and quantification of *Pseudoperonospora cubensis* sporangia. K. N. NEUFELD, L. M. Quesada-Ocampo, and P. S. Ojiambo; North Carolina State University, Raleigh, NC, U.S.A.

11:30 – 11:45 am – Evidence for volatile aflatoxin stimulatory and inhibitory chemicals produced by *Aspergillus flavus*. R. R. SWEANY and K. E. Damann, Jr.; LSU AgCenter, Baton Rouge, LA, U.S.A.

11:45 – 12:00 pm – Sequencing and Characterization of *Canna yellow mottle virus*. D. S. WIJAYASEKARA, P. R. Hoyt, J. Verchot-Lubicz, and M. A. Webb; Oklahoma State University, Stillwater, OK, U.S.A.

12:00 – 12:15 pm – QTL analysis of disease resistance to leaf spots and TSWV in peanut (*Arachis hypogaea*). H. WANG (1), P. Khera (2), A. K. Culbreath (1), M. K. Pandey (2), C. Holbrook (3), R. K. Varshney (2), and B. Guo (3); (1) University of Georgia, Tifton, GA, U.S.A.; (2) International Crops Research Institute for the Semi-Arid Tropics, Patancheru, India; (3) USDA-ARS, Tifton, GA, U.S.A.

12:15 – 1:15 pm – **LUNCH BREAK**

Graduate Student Luncheon (*by invitation only*)
– *Westin Peachtree Plaza, Peachtree Room 2*

CONTRIBUTED PAPERS – Session I – Kevin Ong, SDAPS, Vice-President presiding
– *Westin Peachtree Plaza, Augusta Ballroom C*

1:15 – 1:30 pm – Laurel wilt disease: the search for resistance. M. A. HUGHES (1), X. Martini (2), L. Stelinski (2), K. Smith (1), and J. A. Smith (1); (1) University of Florida, Gainesville, FL, U.S.A.; (2) University of Florida, Lake Alfred, FL, U.S.A.

1:30 – 1:45 pm – Effects of an experimental seed treatment supplement and potash fertilization on seedling diseases of snap bean and soybean and on crop yield. C. CANADAY, S. D. Stewart, and A. McClure; University of Tennessee, Jackson, TN, U.S.A.

1:45 – 2:00 pm – Relationship between target spot intensity and seed cotton yield. A. HAGAN (1), K. Bowen (1), M. Pegues (2), and J. Jones (1); (1) Auburn University, Auburn, AL, U.S.A.; (2) Auburn University, Fairhope, AL, U.S.A.

2:00 – 2:15 pm – Development of a detection method for the oak pathogens *Diplodia corticola* and *D. quercivora*. T. J. DREADEN and J. A. Smith; University of Florida, Gainesville, FL, U.S.A.

2:15 – 2:30 pm – The results of survey for citrus greening on the Upper Gulf Coast of Texas. D. N. APPEL and K. L. Ong; Texas A&M AgriLife Extension Service, College Station, TX, U.S.A.

2:30 – 2:45 pm – *Fusarium torreyae* and the endangered Florida torrey (Torreya taxifolia): Biology, potential host range and implications for assisted migration. J. SMITH (1), T. Spector (2), R. Pruner (3), M. Friel (3), J. Bente (3), R. Determann (4), J. Cruse-Sanders (4), K. O'Donnell (5), and A. Trulock (6); (1) University of Florida, Gainesville, U.S.A.; (2) US Fish and Wildlife Service, West Valley City, UT, U.S.A.; (3) Florida Department of Environmental Protection, Panama City, FL, U.S.A.; (4) Atlanta Botanical Garden, Atlanta, GA, U.S.A.; (5) NCAUR-ARS-USDA, Peoria, IL, U.S.A.; (6) University of Florida, Gainesville, FL, U.S.A.

2:45 – 3:00 pm – Fungicide selection and application timing impact southern rust control in corn. A. HAGAN, H. L. Campbell, M. Pegues, J. Jones, and B. Miller; Auburn University, Auburn, AL, U.S.A.

3:00 – 3:15 pm – Effect of new peanut genotypes on leaf spot severity and yield when grown without fungicides. B. S. JORDAN (1), A. K. Culbreath (1), and W. D. Branch (2); (1) Univ. of Georgia, Dept. of Plant Pathology, Tifton, GA, U.S.A.; (2) Univ. of Georgia, Dept. of Crop and Soil Sciences, Tifton, GA, U.S.A.

3:15 – 3:30 pm – The efficacy of biological fungicide foliar treatments to control basil downy mildew in the greenhouse. S. C. RHODES and K. L. Ong; Texas A&M AgriLife Extension Service, College Station, TX, U.S.A.

3:30 – 3:45 pm – **BREAK**

CONTRIBUTED PAPERS – Session II – Tom Allen, SDAPS President, presiding
– *Westin Peachtree Plaza, Augusta Ballroom C*

3:45 – 4:00 pm – In furrow applications of azoxystrobin for peanut seed and seedling disease management. T. B. BRENNEMAN, R. C. Kemerait, and A. K. Culbreath; Department of Plant Pathology, University of Georgia, Tifton, GA, U.S.A.

4:00 – 4:15 pm – Solatenol fungicide – A new SDHI Fungicide from Syngenta. M. D. WIGLESWORTH and A. H. Tally; Syngenta Crop Protection, Greensboro, NC, U.S.A.

4:15 – 4:30 pm – Role of minor nutrients on Tomato spotted wilt of Tobacco (*Nicotiana tabacum*) and superoxide-dismutase and NPR1 genes. S. A. ROOKS (1), A. K. Watson-Selph (1), B. Dutta (1), R. D. Gitaitis (1), C. Nischwitz (2), S. W. Mullis (3), A. K. Culbreath (1), and A. S. Csinos (1); (1) University of Georgia, Tifton, GA, U.S.A.; (2) Utah State University, Logan, UT, U.S.A.; (3) University of Georgia, Blairsville, GA, U.S.A.

4:30 – 4:45 pm – Spatial distributions of *Meloidogyne incognita*, *Rotylenchulus reniformis*, and *Thielaviopsis basicola* during a 10 year cotton monoculture and implications for site-specific management. T. N. SPURLOCK (1), T. L. Kirkpatrick (2), C. S. Rothrock (3), S. Monfort (4), and A. C. Tolbert (1); (1) University of Arkansas, Monticello, AR, U.S.A.; (2) University of Arkansas, Hope, AR, U.S.A.; (3) University of Arkansas, Fayetteville, AR, U.S.A.; (4) University of Georgia, Tifton, GA, U.S.A.

4:45 – 5:00 pm – Severity of bacterial leaf spot in pepper is affected by cation concentrations in pepper tissues. B. DUTTA (1), D. Langston (2), H. Sanders (1), S. Smith (1), and R. Gitaitis (1); (1) University of Georgia, Tifton, GA, U.S.A.; (2) Tidewater Agricultural Research and Extension Center, Suffolk, VA, U.S.A.

5:00 – 5:15 pm – Oxathiapiprolin: A new fungicide for control of Oomycete diseases. P. Kuhn, A. Tally, and M. D. WIGLESWORTH; Syngenta Crop Protection, Greensboro, NC, U.S.A.

5:15 – 5:30 pm – **BREAK**

5:30 – 6:30 pm – **SOUTHERN DIVISION-APS BUSINESS MEETING**
– *Westin Peachtree Plaza, Augusta Ballroom C*

6:30 – 7:30 pm – **POSTER VIEWING AND CASH BAR**
– *Westin Peachtree Plaza, Overlook*

7:30 – 9:30 pm – **SOUTHERN DIVISION BANQUET**
– *Westin Peachtree Plaza, Savannah Ballroom A*

POSTER SESSION

-Westin Peachtree Plaza, Overlook

1. Management of daylily rust with different fungicide combinations and spray intervals. R. S. EMMITT (1), K. L. Stevenson (2), T. B. Breneman (2), and J. W. Buck (1); (1) University of Georgia, Griffin, GA, U.S.A.; (2) University of Georgia, Tifton, GA, U.S.A.
2. Watermelon root rot in southwest Florida. K. E. HENDRICKS and P. D. Roberts; University of Florida, Immokalee, FL, U.S.A.
3. Reproduction of *Meloidogyne incognita* and *M. graminis* on several grain sorghum hybrids. K. M. HURD and T. R. Faske; University of Arkansas, Division of Agriculture, Cooperative Extension Service, Lonoke, AR, U.S.A.
4. Pomegranate (*Punica granatum* L.) in Florida: A disease snapshot. A. N. KC and G. E. Vallad; University of Florida, Wimauma, FL, U.S.A.
5. Assessment of biological and chemical fungicides for control of downy mildew of basil. J. S. PATEL and S. Zhang; University of Florida, Homestead, FL, U.S.A.
6. Maize sensitivity to drought stress is associated with differential responses to reactive oxygen species. L. YANG (1), J. C. Fountain (1), X. Ni (2), P. Ji (1), R. D. Lee (1), B. T. Scully (3), R. C. Kemeraite (1), and B. Guo (1); (1) University of Georgia, Tifton, GA, U.S.A.; (2) USDA-ARS, Tifton, GA, U.S.A.; (3) USDA-ARS, Fort Pierce, FL, U.S.A.
7. The visual assessment of virus disease in three types of tropical canna. M. A. WEBB and J. Verchot; Oklahoma State University, Department of Entomology and Plant Pathology, Stillwater, OK, U.S.A.
8. A preliminary study examining fitness cost associated with maintaining fungicide resistance in the absence of selection for *Didymella bryoniae* epidemics in Florida watermelon production. M. J. NEWARK (1), N. S. Dufault (1), and M. L. Paret (2); (1) University of Florida, Gainesville, FL, U.S.A.; (2) University of Florida, Quincy, FL, U.S.A.
9. RNA-seq analysis of soybean near-isogenic line carrying Asian soybean rust-resistant and -susceptible alleles. D. HU (1), D. Hu (1), D. H. Oh (2), M. Dassanayake (2), D. Walker (3), and Z. Chen (1); (1) Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA, U.S.A.; (2) Department of Biological Science, Louisiana State University, Baton Rouge, LA, U.S.A.; (3) USDA-ARS Soybean/Maize Germplasm, Pathology, and Genetics Research Unit, Urbana, IL, U.S.A.

10. Management of nematodes in cotton fields with variable soil types using Telone II soil fumigant and root-knot nematode resistant varieties. R. HAYGOOD (1), D. Burns (2), E. Burris (3), C. Overstreet (4), S. Blanche (1), and C. O'Hara (1); (1) Dow AgroSciences, Indianapolis, IN, U.S.A.; (2) LSU AgCenter, St. Joseph, LA, U.S.A.; (3) Burris Consulting, St. Joseph, LA, U.S.A.; (4) Louisiana State University, Baton Rouge, LA, U.S.A.
11. Effect of fungicide and application timing on target spot (*Corynespora cassiicola*) in Louisiana cotton. P. PRICE, M. Purvis, and H. Pruitt; LSU AgCenter, Winnsboro, LA, U.S.A.
12. Evaluation of flutriafol for management of cotton root rot in Texas. J. WOODWARD (1), J. H. Ramirez (2), and G. D. Morgan (3). (1) Texas A&M AgriLife Extension, Dept. of Plant & Soil Science, Texas Tech University, Lubbock, TX, U.S.A.; (2) Texas A&M AgriLife Extension, Vernon, TX, U.S.A.; (3) Dept. of Soil & Crop Sciences, College Station, TX, U.S.A.