

2019 APRES Accepted Abstracts

| Last Name | First Name | Abstract Title: |
|----------------|------------|---|
| Abney | Mark | Organophosphate Alternatives for Rootworm Management in Peanut |
| Adhikari | Koushik | Nutritional Properties of Peanut Based Beverages: A Promising Solution for Undernutrition in Malawi and Possibly Beyond |
| Adhikari | Koushik | Consumer Acceptability of Peanut Based Beverages: Promoting Peanut Consumption in Malawi |
| Aigner | Benjamin | Life Cycle and Fecundity of Peanut Burrower Bug, <i>Pangaeus bilineatus</i> Say (Hemiptera: Cydnidae), in a Growth Chamber |
| Anco | Dan | In-Furrow Application of Phorate and Development of Late and Early Leaf Spot |
| Anderson | William | Incorporating Winter Cover Crops within a Cotton-Peanut Rotation in Georgia |
| Andres | Ryan | Development of an Early Generation Marker-Assisted Selection Strategy for Virginia-type Peanuts |
| Azevedo | Ana Julia | Effect of Winter Cover Crops on a Peanut – Cotton Rotation |
| Azevedo | Vania | Enriching the Value of Genetic Resources for Use in Peanut Improvement |
| Baldessari | Jorge | Relative Importance of Variability Sources in Smut Resistance Assessment in Field Tests |
| Balkcom | Kris | New Metering Technology for Peanut Planting |
| Ballen-Taborda | Carolina | A New Source of Root-knot Nematode Resistance from <i>Arachis stenosperma</i> Incorporated into Allotetraploid Peanut (<i>Arachis hypogaea</i>) |
| Balota | Maria | 'Walton', a New Virginia-Type Peanut Suitable for Virginia |
| Barrow | Billy | Survey of Tillage Practices in Peanut across the Virginia-Carolina Region |
| Basak | Suma | Molecular Mechanism of Resistance to ACCase-inhibiting Herbicide in Southern Crabgrass (<i>Digitaria ciliaris</i>) Biotypes |
| Bennett | Rebecca | Growth Chamber Assay for Evaluating Resistance to <i>Sclerotium rolfsii</i> |
| Bertioli | David | International collaboration leverages peanut research and crop improvement |
| Bertioli | Soraya | The Worldwide Influence of the Wild Species, <i>A. cardenasii</i> , on the Peanut Crop |
| Bertioli | Soraya | Wild-derived Resistance to Early and Late Leaf Spot caused by <i>Passalora arachidicola</i> and <i>Nothopassalora personata</i> in Peanut |
| Branch | W. D. | Allelism Test between Crosses of High Oleic x High Oleic and Very High Oleic x Very High Oleic Peanut Genotypes. |
| Brenneman | Timothy | Management of Peanut Root Knot Nematode with Nematicides Applied In Furrow or as Foliar Sprays. |
| Broster | Kayla | Nozzle Type and Application Pressure Effects on Weed Management in Peanut (<i>Arachis hypogaea</i>) |
| Broster | Kayla | Comparison of Season Long Herbicide Programs in Peanut (<i>Arachis hypogaea</i>) |
| Brown | Nino | Inheritance and Mapping of Albino Virescent-Leaf and Lutescent-Leaf Traits in Peanut. |
| Buol | Greg | Modification of the Peanut Risk Tool Developed at North Carolina State University |
| Burow | Mark | QTLs for Leaf Spot Resistance, Yield, and Maturity in an Interspecific Peanut Introgression Population in West Africa and Texas using KASP Markers. |
| Campbell | Howard | Disease and Yield Response of Selected Peanut Cultivars to Low and High Input Fungicide Programs in Southeast Alabama |
| Cason | John | Screening for Resistance to <i>Sclerotinia minor</i> (Jaggers). |
| Chamberlin | Kelly | Screening for resistance to panut smut in Argentina |
| Chavarro | Carolina | Changes in Transcription of Transposable Elements in Peanut After Hybridization and Polyploidy |
| Chu | Ye | Speed Breeding with Lumigrow LED light Accelerates Peanut Growth. |

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| Chu | Ye | A Major Seed Size QTL on Chromosome A05 of a Peanut Cultivar is Conserved in the U.S. Mini Core Germplasm Collection |
| Clevenger | Josh | A New Nematode Resistant, High Oleic Virginia type peanut for the South East |
| Culbreath | Albert | Residual Control of Leaf Spot from Single Applications of Pydiflumetofen |
| Curry | Shane | Evaluating Peanut Cultivars Using a Reduced Cost and a Premium Fungicide Program |
| Dang | Phat | Evaluation of Peanut Breeding Lines to Identify Differential Expressed Genes Involved in Leaf Spot Resistance |
| Davis | S. Brad | Supplemental Replanting of Gaps in Plant Stand Affects Peanut Production and Incidence of Tomato Spotted Wilt Virus. |
| de Aguila Moren | Leticia | Genotypic Variability Based on Physiological Traits of Peanuts Under Drought Stress |
| Dean | Lisa | Effects of a Spray Treatment on Secondary Metabolites in Runner Peanuts |
| Dillard | Brandon | Evaluation of Current Alabama Peanut Production Practices through Producer Surveys |
| Dotray | Peter | Peanut Response to Diclosulam |
| Dufault | Nicholas | A Multiyear Study Examining Varying Fungicide Input Programs on Georgia-06G, TUFRunner 511 and FloRun 331 Disease Management. |
| Dunne | Jeffrey | Use of In Silico Digestion, Whole-Genome Sequencing and an Internal Reference Genome for Improved Efficiencies in Marker Detection for Virginia-type Peanuts |
| Eason | Kayla | Peanut Response to Sub-Lethal Rates of Dicamba + Glyphosate |
| Ferguson | J Connor | Findings from the 2019 Survey of Mississippi Peanut Grower Application and Weed Management Practices |
| Fletcher | Stanley | Changes to the Peanut Grading Standards – Implications to Georgia Peanut Farmers |
| Fletcher | Stanley | Agriculture Improvement Act of 2018 - Implications for U.S. Peanut Farmers |
| Floyd | Allison | Using a Video Game to Teach Basic Peanut Agronomy to Preschoolers |
| Fonceka | Daniel | Mobilizing Genetic Diversity for Strengthening Peanut Breeding Program in Africa and the US |
| Fountain | Jake | Genetic Transformation to Mitigate Drought and Aflatoxin-Related Losses in Peanut |
| Fulmer | Abraham | Mefentrifluconazole – A New Broad-Spectrum Demethylation Inhibitor for Use on Row and Specialty Crops. |
| Gao | Dongying | Development of New Synthetic Tetraploid Wild Peanuts. |
| Gamble | Audrey | Boron and Calcium Effects on Runner Peanut Production |
| Gimode | Davis | Characterizing a Peanut Chromosome Segment Substitution Line Population Using High Throughput Phenotyping |
| Gomillion | Mark | Peanut Cultivar Response to the Number of Fungicide Sprays in a Medium to High Risk Situation Based on the 2019 Peanut Rx |
| Gremillion | Sara | Lacking Culture: Obtaining Fungal DNA Directly from Early Leaf Spot of Peanut |
| Grey | Timothy | Effects of POST Herbicide Application and Digging Date on Seed Development, Germination, and Vigor of Peanut Cultivars |
| Grichar | James | Weed Control and Peanut Response to Fluridone |
| Guo | Baozhu | Fine Mapping and Identification of Candidate Genes in Chromosome A01 of Peanut for Resistance to TSWV |
| Hagan | Austin | Efficacy of Chlorothalonil Alternatives Compared for Disease Control and Yield Response on Peanut |
| Hand | Lavesta | Peanut Response to Metribuzin |
| Hare | Andrew | Potential for Agronomic Crops in a Double Cropping System with Wheat (<i>Triticum aestivum</i> L.) in North Carolina |
| Hassan | Mohamma | Orange Peel Powder Increases Growth Promotion of Peanut by <i>Bacillus velezensis</i> PGPR Strains and Nodulation by Indigenous Rhizobia |

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| Hassen | Abdi | Fingerprinting and Aflatoxin Production of <i>Aspergillus</i> Section <i>Flavi</i> Associated with Groundnut in Eastern Ethiopia |
| Hayes | Brian | Assessment of Evolving Peanut Fungicide Programs for Yield and Value in Southwest Georgia |
| Hoisington | Dave | Feed the Future Innovation Lab for Peanut Links U.S. Institutes with Global Partners |
| Holbrook | C. Corley | Field Evaluation of Peanut Lines with Introgressions Conferring Resistance to Late Leaf Spot |
| Hurdle | Nick | Seedling Peanut (<i>Arachis hypogaea</i> L.) Physiological Response to Flumioxazin |
| Hurry | Jarette | Examples of In-Service Educational Opportunities for Extension Agents in North Carolina |
| Jiang | Tao | Genome-Wide Association Study of Sweet, Bitter and Roasted Sensory Attributes in Cultivated Peanut |
| Johnson | Jeff | Peanuts and the Fight Against Hunger |
| Jordan | Brian | Evaluation of Qol Sensitivity in <i>Aspergillus</i> spp. Section <i>Nigri</i> from Peanut Fields in Georgia |
| Jordan | David | Value of International Projects to Faculty in the United States: Examples of Participation by Individuals at North Carolina State University with the Peanut Innovation Lab |
| Jordan | David | Developing a Peanut Maturity Profile Board for Malawi |
| Kalina | Jacob | Evaluating Fluridone for Crop Tolerance and Weed Control in Peanut Production |
| Kaufman | Amanda | The Influence of Digging Date on Fatty Acid and Tocopherol Expression in Normal and High-Oleic Virginia Peanut Varieties Grown in North Carolina |
| Kaufman | Amanda | Assessing the Composition of a High-Oleic Peanut Cultivar Grown in North Carolina Using Various Pesticide Inputs |
| Kemerait | Robert | Addition of Thrips Category to Peanut Rx for Prediction of Risk to Spotted Wilt |
| Kostandini | Genti | The Effect of Enrollment on Training and Micro Credit Programs on Peanut Productivity: Evidence from Haiti |
| Kumar | Naveen | Phenotyping And Genotyping For Drought Tolerance In Virginia Type Peanut |
| Kumral | Fulya Eda | Genome Wide Association Study (GWAS) on Root-Knot Nematode Resistance in Cultivated Peanut |
| Lamb | Marshall | Peanut Yield and Quality Responses to Planting Date, Harvest Date, Cultivar, and Late-Season Flower Termination |
| Lapitan | Nora | U.S. Investments in Research for Development and Global Impacts |
| Lee | Crystal | Alleviating Peanut Allergy Using the CRISPR/Cas system |
| Levinson | Chandler | Harnessing the Wild Side of Peanuts: Morphological and Reproductive Characterization of Wild Peanut Relative-derived Synthetic Tetraploids |
| Li | Li | Construction of High Density Genetic Map and Mapping Quantitative Trait Loci for Growth Habit Related Traits of Peanut (<i>Arachis hypogaea</i> L.) |
| Li | Lin | Effects of Calcium Fertilizer on Enzyme Activities and Fertility of Barren Upland Red Soil planted with Different Grain-type Peanut |
| Lipsey | Brittany | Evaluating Current Caterpillar Pest Thresholds in Mississippi Peanut |
| Liu | Denwang | Effects of Calcium Fertilizer on Physiological and Biochemical Characteristics, and Resistance Gene Expression of Peanut Seedlings Under Waterlogging Stress |
| Liu | Juan | The Allelopathy of Autotoxic Compounds in Peanut Continuous Cropping Obstacle and Mitigation Mechanism |
| Luke-Morgan | Audrey | An Analysis of Crop Insurance as a Risk Management Strategy for U.S. Peanut Producers from a Whole Farm Perspective |
| Mallard | Jason | Comparative Effectiveness and Profitability Between Fungicide Programs in Eastern Georgia |
| Massa | Alicia | Gene Expression in the Interaction between <i>Aspergillus</i> and an Aflatoxin-Resistant Peanut Germplasm |
| Mauldin | Mark | On-Farm Evaluation of Nematicides in Peanut in the Florida Panhandle |

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| McAmis | Shannon | Refinement of an Aflatoxin Prediction Model Using Field and Greenhouse Data to Elucidate Physiological Mechanisms of Aflatoxin Contamination in Peanut |
| Mochiah | B. | Summary of Interventions to Minimize Aflatoxin Contamination in Ghana at Pre-harvest and Post-Harvest Steps in the Supply Chain |
| Monfort | W. Scott | Evaluation of Reduced Rates of Prohexadione Calcium (Plant Growth Regulator) on Peanut in Arkansas, Georgia, Mississippi, South Carolina and North Carolina. |
| Mulvaney | Michael | Nitrogen Credits after Peanut |
| Munir | Misbakhul | PCR-Based Detection of <i>Nothopassalora personata</i> on Peanut |
| Nadaf | Hajisab | Prevalent Moisture Stress in Climate Change Situation as a Selection Strategy for Drought Tolerance in Groundnut (<i>Arachis hypogaea</i> L.) |
| Pasupuleti | Janil | Partnership Holds the Key to Deploy New Tools in Peanut Breeding Programs |
| Patel | Jinesh | Genome-Wide Association Study of Pod and Seed Quality Traits in Peanut |
| Paula-Moraes | Silvana | Pests Associated with Peanut and Current Baseline Susceptibility to Insecticides in the Florida Panhandle. |
| Pelham | Sara | Development of a Web-Based Platform to Monitor Crop Stress in Peanuts Throughout the Growing Season. |
| Peper | Alan | Studying Peanut Pod Development within a Controlled Microbial System |
| Pilon | Cristiane | Peanut Seedling Vigor under Sub-optimal Growing Temperature |
| Price | Tucker | Evaluating Fungicides for Reducing White Mold in Peanuts in Cook County, Georgia |
| Price | Katilyn | Evaluation of Fluridone in Peanut |
| Price | Katilyn | Peanut Injury Evaluation of PPO Inhibitor Herbicides as Affected by Application Timings and Surfactants |
| Prostko | Eric | Peanut Response to Dual Magnum and Valor Under High Moisture Conditions |
| Rabinowitz | Adam | Determining the Relationship between Peanut Prices and Stocks-to-Use Ratio |
| Sarkar | Sayantan | High-Throughput Techniques to Estimate Leaf Area Index in Peanut |
| Scholten | Matt | Amino Acid and Sucrose Reactions: Real Time Analysis using Gerstel TDU-GC/MS |
| Seebold | Kenneth | Inpyrfluxam: A New Active Ingredient for Control of Southern Stem Rot of Peanut |
| Simpson | Charles | Selection for Two Seeded Pods in Consecutive Generations of the Wild Species <i>Arachis monticola</i> Krapov.& Rigoni |
| Singh | Navjot | Determining the Impact of Planting Pattern on Water-use Efficiency of Peanut |
| Sobolev | Victor | Inhibition of Aflatoxin Production in <i>Aspergillus</i> in the Course of Peanut-Fungus Interaction |
| Song | Yangyang | Peanut Immaturity Could be a Stress Event on Seedling Vigor throughout Generations |
| Stuart | Matthew | Effect of Fungicide Programs on Plant Health, Maturity, Yield, and Quality on Peanut in Georgia |
| Suassuna | Tais | Relationship Among Field and Post-harvest Evaluations of Spotted Wilt in <i>Arachis</i> Germplasm |
| Taylor | Sally | Acephate and Alternative Foliar-applied Insecticides for Thrips Control |
| Tillman | Barry | Peanut Cultivar Response to <i>S. rolfii</i> Inoculation in the Absence of Fungicides in a Medium Risk Situation Based on the 2019 Peanut Rx |
| Tonnis | Brandon | Analysis of Genotype and Environment Interaction Revealed Oleic Acid Plasticity in Peanuts |
| Traore | Sy | Development of a Suitable Gene Editing System in Peanut |
| Treadway | Zachary | Determining the effect of Prohexadione Calcium Growth Regulator on the Growth and Yield of Peanuts (<i>Arachis hypogaea</i>) in Mississippi |
| Treadway | Zachary | Achieving an Optimal Prohexadione Calcium Rate by Developing New Methods for Dosing in Mississippi Peanut (<i>Arachis hypogaea</i>) |
| Tubbs | R. Scott | Timing of Termination for Supplemental Replanted Peanut to Maximize Yield and Grade. |

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| Tyson | William | Evaluating Peanut White Mold Fungicide Programs in Bulloch County, Georgia |
| Vaughn | Justin | Resolving Genes for White Mold Resistance in Peanut Using Large-population QTL-seq Coupled with Iterative Genotyping (iQTL-seq) |
| Virk | Gurpreet | Planting Conditions Influence Early Season Vigor of Peanut Cultivars |
| Wang | Xu | Characterization of ACC Deaminase Producing Bacteria Isolated from Peanut Root Nodules |
| Wang | Jianping | Natural Mutations in Peanut Genomes Involved in Nodulation. |
| Wang | Chuan Tan | Production of Transgenic Peanuts with Enhanced Low temperature Tolerance |
| Waters | Kalyn | The Value of On-farm Demonstrations |
| Weaver | Caleb | Peanut Seed Germination and Seedling Emergence as Affected by Storage Conditions |
| Wei | Xing | Early Detection of Southern Stem Rot of Peanut Utilizing Spectral Reflectance and Thermal Imaging Technologies |
| Wright | Graeme | Satellite-based Real-time Monitoring of Peanut Fields Using Multispectral and Synthetic-aperture Radar Imagery |
| Wright | Graeme | Marker Development for Blanchability in Peanuts |
| Wynn | Keith | Fungicide Efficacy Trial Promotes Agent Training Through Experiential Learning |
| Yaduru | Shasidhar | Nested Association Mapping (NAM) Population-based Joint Linkage Mapping and GWAS for Identification of Consistent QTLs/QTNs for Disease and Pod Traits in Peanut. |
| Yang | Xinlei | Genome-wide Identification and Expression Analysis of bZIP Gene Family under Drought Stress in Peanut |
| Yu | Jianmei | Effectiveness of Different Proteases in Reducing Raw Peanut Allergenicity |
| Zhang | Hui | GWAS and Co-expression Network Reveal Ionomic Variation in Peanut |
| Zhao | Nannan | Identification and Expression Analysis of WRKY Gene Family under Drought Stress in Peanut (<i>Arachis hypogaea</i> L.) |
| Zurweller | Brendan | Above- and Below-Ground Evaluation of Peanut Genotypes for Improving Soil Water Acquisition and Utilization |