

Student Award Winners at the 17th Biennial Research Symposium

Student Oral Presentations – Graduate Competition Animal Health and Production and Animal Products

1st place - Production Comparison of All-Male and Mixed-Sex Freshwater Prawns *Macrobrachium Rosenbergii* in Ponds. Z. Kupchinsky, Kentucky State University

2nd - Inclusion of Oat in a Sow's Diet May Help Prevent Post Weaning Diarrhea in Piglets. T. Daniels, North Carolina Agricultural and Technical State University

3rd - Analysis of the Impact of Production Style on Porcine Airway Morphology and Proteome Dynamics. C. J. McClendon, North Carolina Agricultural and Technical State University

Student Oral Presentations – Undergraduate Competition Animal Health and Production and Animal Products

1st place tie - Development of a Two-Step Multiplex Real-Time PCR for the Rapid Detection of *Vibrio anguillarum* from Sea Water. M. E. Hickey, Delaware State University

1st place tie - Housing and Feeding Effects on the Carcass Yield and Quality Traits in Kids Under Mixed-Species Grazing System. L. Profit, Southern University and A&M College

3rd place - STAT-3 mRNA Expression in the Goat (*Capra hircus*) Testis. S. Thomas, Tuskegee University

Student Oral Presentations – Graduate Competition Family, Youth, Community and Economic Development

1st place - Putting Theory into Practice: Aquaculture as a STEM Tool in the Classroom. C. R. Janiak, Delaware State University

2nd place - The Cost Effectiveness of Biological Control: The Case of Invasive Mole Crickets and Florida's Commercial Pastureland. G. Mhina, Florida A&M University

3rd place - Marketing of Small Scale Aquaculture Products in Kentucky. R. Bryant, Kentucky State University

Student Oral Presentations – Undergraduate Competition Family, Youth, Community and Economic Development

1st place - An Empirical Investigation of Factors Influencing University Students Body Mass Indices. D. J. Ross, Southern University and A&M College

2nd place - Do State Sponsored Labels Make Any Difference? The Case of "Georgia-Grown" Label. C. Allen, Fort Valley State University

3rd place - Consumers' Perception and Willingness to Buy Goat Meat. M. Cosby, Fort Valley State University

Student Oral Presentations – Graduate Competition Food Safety, Nutrition and Health

1st place - Physiological Implications of Altered Thyroid Function and High Fat Diets in Rats. V. Welch-White, Tuskegee University

2nd place tie - Determination of the Potential of Cocoa and Coffee on Tumor Formation and Effects on Selected Antioxidant Enzymes. L. Dalrymple, Alabama A&M University

2nd place tie - Isolation and Screening of Lactic Acid Bacteria (LAB) from Kimchi and Chicken Intestine and Feces for Use as Probiotics. J. Young, Delaware State University

**Student Oral Presentations – Undergraduate Competition
Food Safety, Nutrition and Health**

1st place - Storage Practices and Microbiological Contamination of Home Refrigerated Foods. A. Frederick, Tennessee State University

2nd place - Molecular Structure and Physicochemical Properties of Starches in Virginia-Grown Corn, Potato, and Mungbean. C. Grizzard, Virginia State University

3rd place - Sex, Stress, and Inflammation in a Murine Model of Ulcerative Colitis. D. Hampton, Tuskegee University

**Student Oral Presentations – Graduate Competition
Plant Health and Production and Plant Products**

1st place - Proteomic Analysis of Tomato Roots Under Aluminum Stress. S. Sangireddy, Tennessee State University

2nd place tie - Nitrogen Use Efficiency (NUE) Through Sensor-based Algorithms and On-the-go Application. C. Hartman, University of Maryland Eastern Shore

2nd place tie - Comparison of Hay and Polyethylene Mulch Effects on Soil Properties and Organic Produce Yield and Quality. J. Nelson, Kentucky State University

**Student Oral Presentations – Undergraduate Competition
Plant Health and Production and Plant Products**

1st place - Screening of Viruses Infecting Sweetpotato in Arkansas. J. Montgomery, University of Arkansas at Pine Bluff

2nd place - High Frequency Plant Regeneration from Axillary Shoot in *Moringa oleifera*. A. Norris, Fort Valley State University

3rd place - Germplasm Screening for High Acetogenin Activity in Pawpaw Twig and Fruit Tissues. L. Kronmaah, Kentucky State University

**Student Oral Presentations – Graduate Competition
Renewable Energy, Natural Resources, and Environment**

1st place - Comparison of Carbon Dioxide Flux within Three Different Urban Wetland Types in the Blackwater Conservation Area. C. Chappell, Southern University and A&M College

2nd place - Design and Evaluation of a Spectrally Optimized Algal Photobioreactor for Carbon and Nitrogen Capture from Fossil Fuel Efflux. X. Henry, University of Maryland Eastern Shore

3rd place - Genome Structure and Protein Expression for Cellulosic Activities of a New Bacterial Strain. H. Li, Tennessee State University

**Student Oral Presentations – Undergraduate Competition
Renewable Energy, Natural Resources, and Environment**

1st place - Genetic Diversity in Six Pawpaw Patches from Franklin County, Kentucky as Revealed by SSR Markers. D. Davidson, **Kentucky State University**

2nd place - Plant Regeneration and Genetic Transformation in *Arundo donax* Using Particle Bombardment. M. Melvin, **Fort Valley State University**

**Student Poster Presentations – Graduate Competition
Animal Health and Production and Animal Products**

1st place - Insecticide Resistance Management in the Ectoparasitic Mite, *Varroa destructor*, of Honey Bee, *Apis mellifera*, Populations and Susceptibility of this Invasive Alien Pest to Fungal Pathogens. C. Eddington, **Florida A&M University**

2nd place - Effects of Feeding a Pelletized Diet Containing Pumpkin Seeds on Nematode Fecal Egg Counts (FEC), and Blood Hematocrit (PCV) in Lambs. J. Rodriguez, **University of Maryland Eastern Shore**

3rd place - The Effect of Divergent Selecting Parent Population Boer Does for High and Low Parasite Resistance on Subsequent Parasite Resistance, Survival Rate, Reproductive Efficiency, and Kid Performance: 1-Year Summary. L. S. Wilbers, **Lincoln University**

**Student Poster Presentations – Undergraduate Competition
Animal Health and Production and Animal Products**

1st place - Growth and Back Fat Thickness of Berkshire (*Sus scrofa*) Reared Outdoors. K. Esparza-Harris, **North Carolina Agricultural and Technical State University**

2nd place - Performance by Crossbred Wether Lambs Grazing Oat and Turnip Pastures in Late Spring through Early Summer Using Either Continuous or Rotational Grazing Schemes. J. K. Hanlin, **Lincoln University**

3rd place - Fatty Acids Composition in Intact or Castrated Boer, Kiko and Boer x Kiko Meat Goats (*Capra hircus*) Under Intensive Management System. S. Baltimore, **Tuskegee University**

**Student Poster Presentations – Graduate Competition
Family, Youth, Community and Economic Development**

1st place - Factors Influencing Graduation Rates in two Mississippi School Districts. C. Mawusi, **Alcorn State University**

2nd place - Obesity Intervention in Low-Income Children from High Risk Families. S. Long-Lambi, **Alabama A&M University**

3rd place - Nutrition Education and Fitness Camp: Can it Prevent Obesity? T. Kelley, **Alabama A&M University**

**Student Poster Presentations – Undergraduate Competition
Family, Youth, Community and Economic Development**

1st place - Sustainable Vegetable Gardening Using IPM Practices. K. Barr, **Florida A&M University**

**Student Poster Presentations – Graduate Competition
Food Safety, Nutrition and Health**

1st place - Chlorine Inactivation of Non-Resistant and Antibiotic Resistant Strains of *Salmonella typhimurium* Isolated from Pre-Chill and Post-Chill Poultry Carcasses. R. Tasmin, **University of Maryland, Eastern Shore**

2nd place - Chemopreventive Potential of Lentils, Green and Yellow Split-Peas (Sprouted and Non-sprouted) on Azoxymethane-Induced Aberrant Crypt Foci in Fisher 344 Male Rats. K. Busambwa, **Alabama A&M University**

3rd place- Chemopreventive Effects of Cocoa and Coffee on Selected Hepatic Detoxification Enzymes in Fisher 344 Male Rats. L. Dalrymple, **Alabama A&M University**

**Student Poster Presentations – Undergraduate Competition
Food Safety, Nutrition and Health**

1st place - The Correlation Between a Soccer Coaches' Perception of Players' Strength and Endurance Using Standardized Measures. R. Dale, **South Carolina State University**

2nd place - Regulation of Allergenic Protein by Nadplus Dehydrogenase. D. Johnson, **Prairie View A&M University**

3rd place - Consumer Evaluation and Shear Force of Retail Domestic Grain-Finished, Imported New Zealand Grass-Finished, and Missouri-Produced Grass-Finished Lamb Racks. K. L. Basinger, **Lincoln University**

**Student Poster Presentations – Graduate Competition
Plant Health and Production and Plant Products**

1st place - Increasing Fresh Virginia-Grown Edamame Supply through Season Extension Techniques. S. Nolen, **Virginia State University**

2nd place - Symbiotic Performance of Genetically Diverse Cowpea Genotypes on the Delmarva Peninsula. N. M. Burton, **University of Maryland Eastern Shore**

3rd place - Effect of Organic and Inorganic Fertilizer on the Production, Elemental Composition and Quality of Roselle Hibiscus Calyces. M. Breithaupt, **Southern University and A&M College**

**Student Poster Presentations – Undergraduate Competition
Plant Health and Production and Plant Products**

1st place - Growth and Yield of Native Warm-Season Grasses as Affected by Root-Loss at Transplanting and Cutting Height. D. Johnson, **Virginia State University**

Tie for 2nd place - Role of MicroRNA Regulation for Sex Expression of Melon. L. Dingess, **West Virginia State University**

Tie for 2nd place - Comparison of the Structural Changes in US and Mississippi Agricultural Production and Productivity. R. Yates, **Alcorn State University**

Tie for 2nd place - Yield Trials for Hot and Specialty Peppers for Small Farm Production. J. A. Thaxton, **West Virginia State University**

**Student Poster Presentations – Graduate Competition
Renewable Energy, Natural Resources, and Environment**

1st place - Testing the Effects of Carbohydrate Perturbations on the Stability of Thermophilic Anaerobic Digestion. N. Montenegro, **West Virginia State University**

2nd place - Monitoring of Resistance Allele Frequencies in the Glassy-Wing Sharpshooter, *Homalodisca vitripennis*, the Destructive Pest of Grape. G. Chelliah, **Florida A&M University**

3rd place - Natuculture: the Benefits of Practicing Conservation Agriculture in Urban Landscapes. M. Williams, **North Carolina A&T State University**

**Student Poster Presentations – Undergraduate Competition
Renewable Energy, Natural Resources, and Environment**

Tie for 1st place - Continuing the Search for a Renewable/Biodegradable Hydroponic Substrate. B. J. Wooten, **West Virginia State University**

Tie for 1st place - Water Dispersible Carbon Nanotubes Silica Hybrids. G. Beharie, **Prairie View A&M University**

3rd place - Determining Urea Persistence in a Coastal Plain Soil: An Incubation Study. I. Bottone, **University of Maryland Eastern Shore**