

## Research for project periods beginning in 2020

- **Building Guardian: Genome Engineering for *Armillaria* Resistance in the Guardian (R) Rootstock.** Lead PI: [Chris Saski](#). 2020-2023. Funded by Titan Farms (\$606,460)
- **Characterizing the Interplay Between Sorghum and Fall Armyworm.** Lead PI: [Richard Boyles](#). 2020-2023. Funded by University of Nebraska- Lincoln (\$117,225)
- **Corteva-sponsored Management Strategies for Peach Disease Control.** Lead PI: [Guido Schnabel](#). 2020-2022. Funded by Dow AgroSciences LLC (\$43,400)
- **Crop Protection and Pest Management Extension Implementation Program for SC.** Lead PI: [Francis Reay-Jones](#). 2020-2021. Funded by USDA (\$192,015)
- **Developing and Evaluating Wheat Lines for FHB Resistance in Atlantic Coastal Plain.** Lead PI: [Richard Boyles](#). 2020-2021. Funded by USDA (\$113,345)
- **Developing Golden Camellia, a Rare Yellow-flowering Species with High Market Demand, as a New Specialty Crop.** Lead PI: [Haiying Liang](#). 2020-2022. Funded by SC Dept of Agriculture (\$42,242)
- **Enable Breeding of Peach Cultivars for Spring Climate Resilience Traits.** Lead PI: [Ksenija Gasic](#). 2020-2022. Funded by SC Dept of Agriculture (\$35,128)
- **Enhancing Stability in CHO Cells: The Linkages Between Culture Stress, Chromatin, and Gene Expression Mechanisms.** Lead PI: [Chris Saski](#). 2020-2021. Funded by John Hopkins University (\$14,250)
- **Evaluations of Bt (MON 88702) Cotton in Large Blocks for *Lygus* and Thrips - 2020.** Lead PI: [Jeremy Greene](#). 2020-2021. Funded by Monsanto (\$22,680)
- **Evaluations of Bt Soybeans -2020.** Lead PI: [Jeremy Greene](#). 2020-2021. Funded by Monsanto (\$42,500)
- **Identifying Overwintering and Landscape Features Associated with Stink Bug Risk and Yield Loss in Corn.** Lead PI: [Francis Reay-Jones](#). 2020-2023. Funded by NC State University (\$70,000)
- **Improving Harvest Recommendations Surrounding the Threat of a Tropical Cyclone.** Lead PI: [Daniel Anco](#). 2020-2021. Funded by National Peanut Board (\$39,216)

- **Lipid Metabolic Changes Contributing to Increased Seed Quality Under Heat Stress.** Lead PI: [Sruthi Narayanan Kutty](#). 2020-2021. Funded by National Peanut Board (\$17,506)
- **A Model Experimental System and Synthetic Biology Approach Toward Engineered DNA Trait Expression.** Lead PI: [Chris Sasaki](#). 2020-2021. Funded by the Clemson University Research Foundation (\$14,767)
- **The Potential of Inter-Seeded Cover Crops for Enhancing Soil Health and Soil Moisture Content in a Row Crop Production System.** Lead PI: [Sruthi Narayanan Kutty](#). 2020-2022. Funded by University of Georgia (\$20,000)
- **Purchase of a Shared Use Conviron Bdw160 Plant Growth Chamber for Plant Science Research Across Multiple Disciplines and Institutions.** Lead PI: [Sruthi Narayanan Kutty](#). 2020-2023. Funded by USDA (\$330,563)
- **Sifting Peanut Germplasm for Heat Tolerant Genotypes Using Week Expression Alleles of the Oleate and the Linoleate Desaturase Genes.** Lead PI: [Sachin Rustgi](#). 2020-2021. Funded by National Peanut Board (\$18,028)
- **Solutions to the *Armillaria* Root Rot Threat Affecting the US Stone Fruit Industry.** Lead PI: [Ksenija Gasic](#). 2020-2024. Funded by USDA (\$4,972,729)
- **South Carolina SARE 2020-2021 State Program- Program Training.** Lead PI: [Matthew Smith](#). 2020-2021. Funded by University of Georgia (\$22,222)
- **Studies to Improve Peanut Production and Late Leaf Spot Management in South Carolina.** Lead PI: [Daniel Anco](#). 2020-2021. Funded by SC Peanut Board (\$32,500)
- **Syngenta Soybean Variety Trial 2020.** Lead PI: [David Gunter](#). 2020-2021. Funded by Syngenta Seeds, Inc. (\$10,500)