Research for project periods beginning in 2021

- **Characterization of Day-Neutral Landrace Cotton Lines by Analyzing Fiber-Specific Genes under Drought Conditions**. Lead PI: Wonkeun Park. 2021. Funded by Cotton Incorporated ($20,000)

- **Combing Genomics-Enabled Breeding with Coordinated Regional Testing to Accelerate Wheat Genotype to Market.** Lead PI: Richard Boyles. 2021-2024. Funded by USDA ($300,000)

- **Deciphering the Molecular Mechanisms of FOV4 Resistance using Genetics, In Vitro Biology, and Genome Engineering Approaches in Upland and Pima Cottons.** Lead PI: Chris Saski. 2021. Funded by Cotton Incorporated ($50,000)

- **Developing First Strategies to Manage Bronzing, a Major Factor Impairing the Quality of SC Peaches.** Lead PI: Guido Schnabel. 2021-2023. Funded by SC Dept of Agriculture ($50,000)

- **Evaluation of Unmanned Ground Vehicle (Husky) for Cotton Weed Control and Development of New Harvesting Module.** Lead PI: Joe Maja. 2021. Funded by Cotton Incorporated ($60,000)

- **Functional Characterization of Reniform Nematode Target Genes with CRISPR**. Lead PI: Chris Saski. 2021. Funded by Cotton Incorporated ($30,000)

- **Genome Editing for New Industrial Uses of Cotton: Biomedical, Military and Beyond.** Lead PI: Chris Saski. 2021. Funded by Cotton Incorporated ($22,500)

- **Mapping of Regenerability on the Cotton Genome.** Lead PI: Chris Saski. 2021. Funded by Cotton Incorporated ($15,000)

- **Phytochemical-Mediated Stress Hormesis and Priming as a Mechanism of Resilience in Weeds and Negating These Stress Adaptations**. Lead PI: Nishanth Tharayil. 2021-2024. Funded by USDA ($307,950)