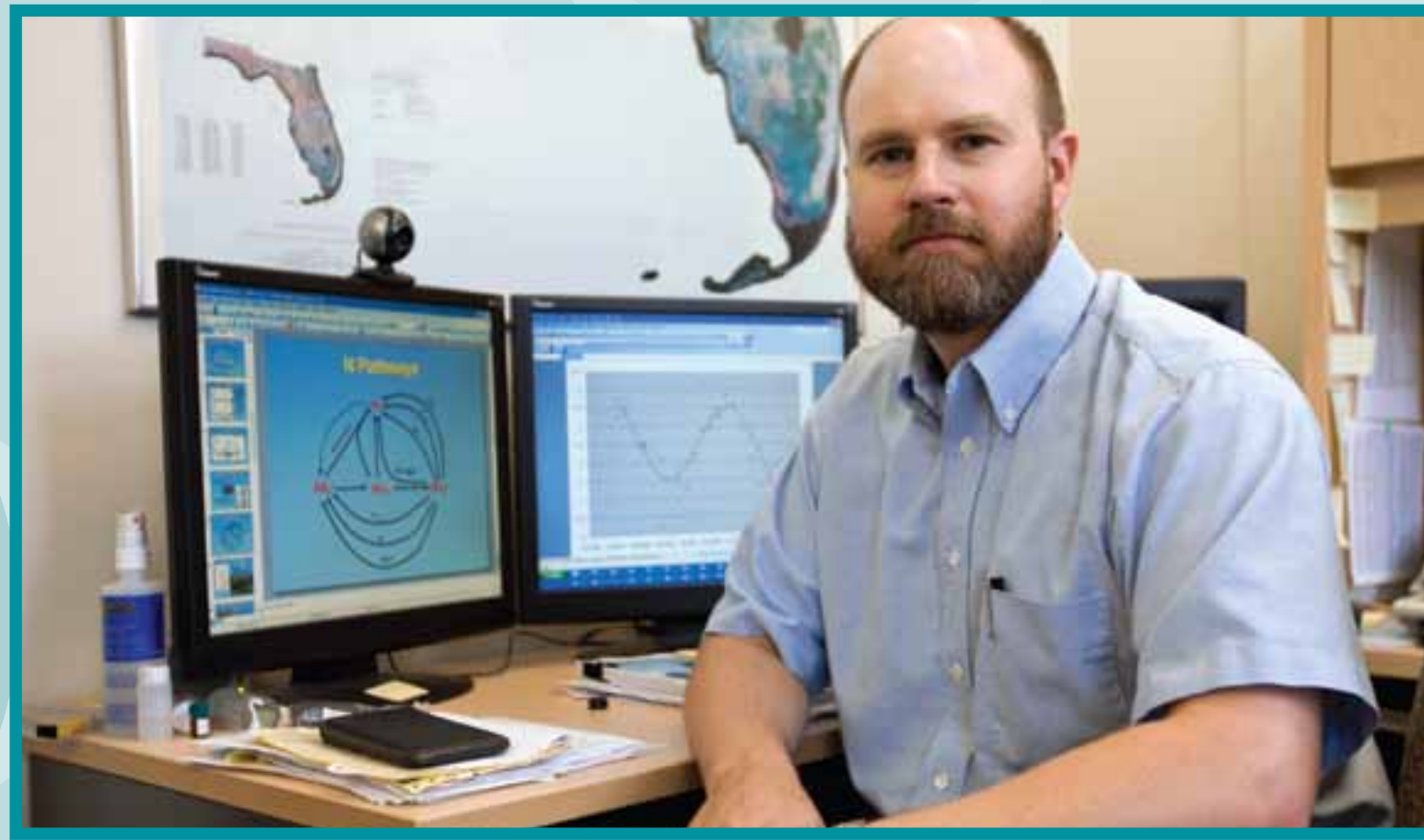


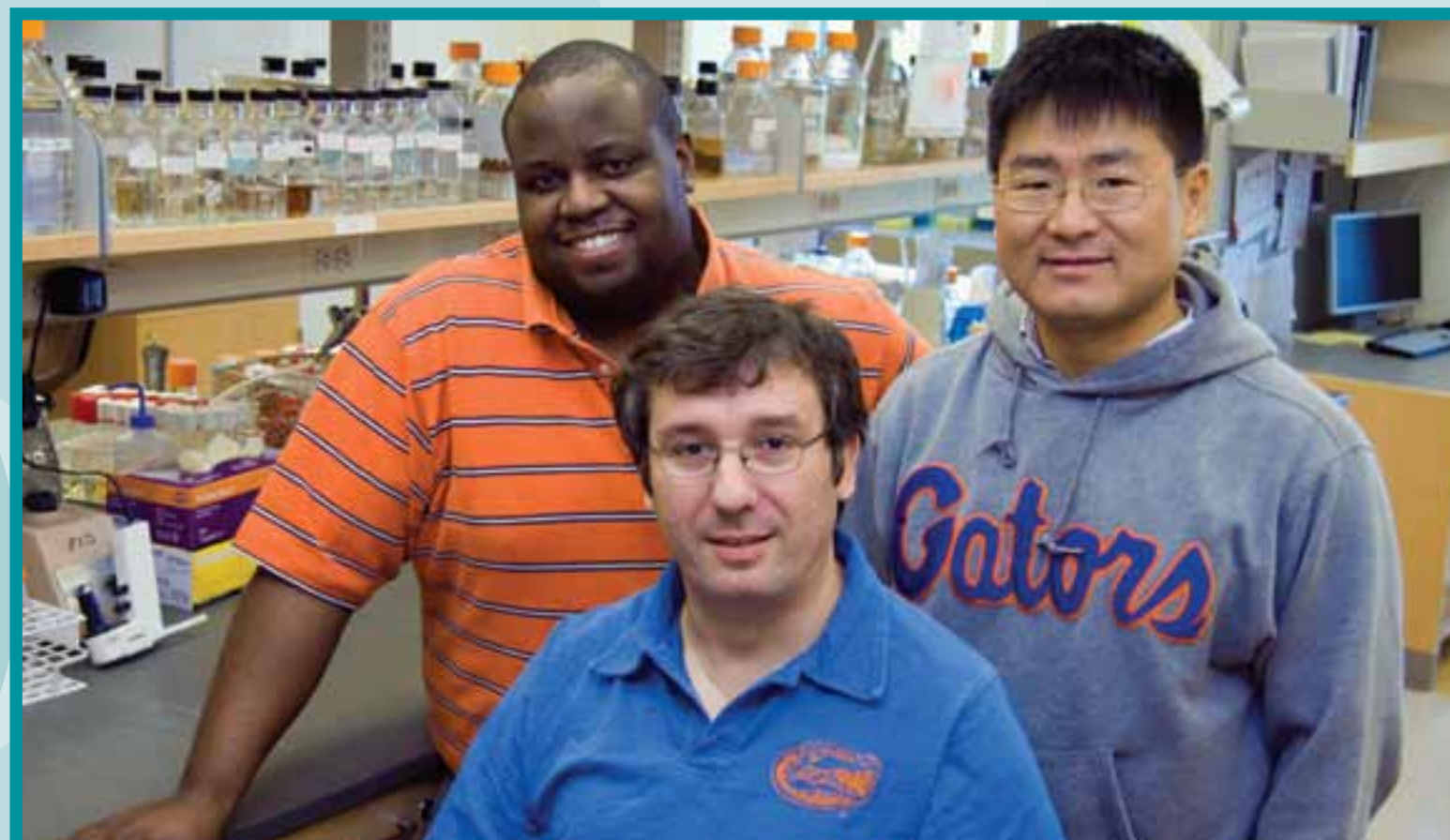
# UF/IFAS RESEARCH INNOVATION AWARDS 2008

The Florida Agricultural Experiment Station funded 11 projects that focused on 3 target areas: projects that position faculty with preliminary data to be successful with large scale national grant applications; high risk projects with potential for spectacular scientific payoff; and projects that need funding to position them for commercialization. **Total Funding \$574,190**



**Lead PI: Patrick W. Inglett** - Soil & Water Science  
**Co PIs: Stephen P. Opsahl, James W. Jawitz, Alan P. Covich**

**Project Title:** Excess nitrogen removal in landscapes: Using advanced techniques to determine the role of aquatic plants on denitrification in shallow lake systems



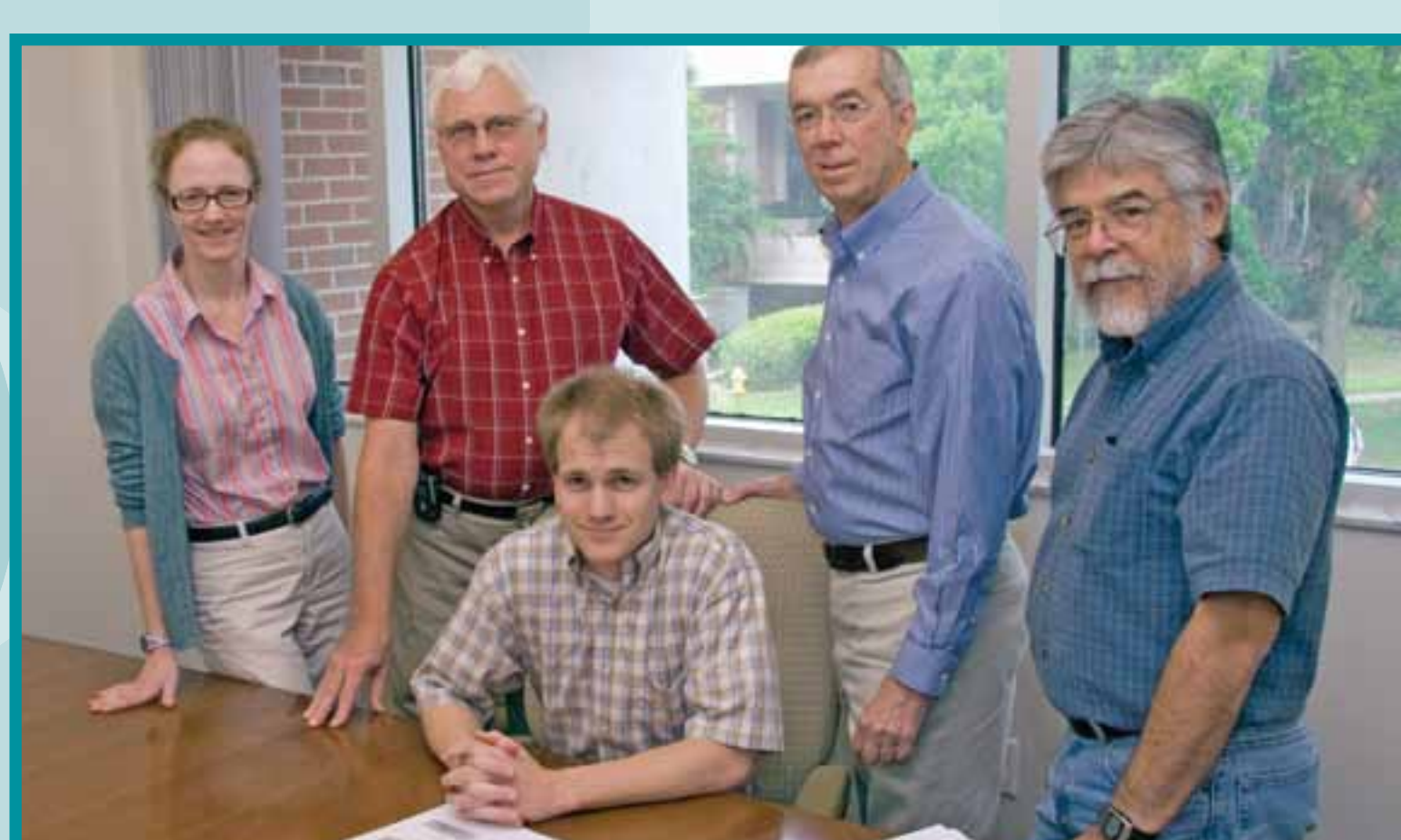
**Lead PI: Claudio E. Gonzalez** - Microbiology and Cell Science  
**Co PIs: Byung-Ho Kang, Joseph Larkin III**

**Project Title:** Bacterial cinnamoyl esterases allow the intestinal absorption of aromatic bioactive compounds



**Lead PI: Paul R. Fisher** - Environmental Horticulture  
**Co PIs: Bruce A. Welt, Ernesto Fonseca**

**Project Title:** A prop-strip invention to automate transplanting of plant cuttings



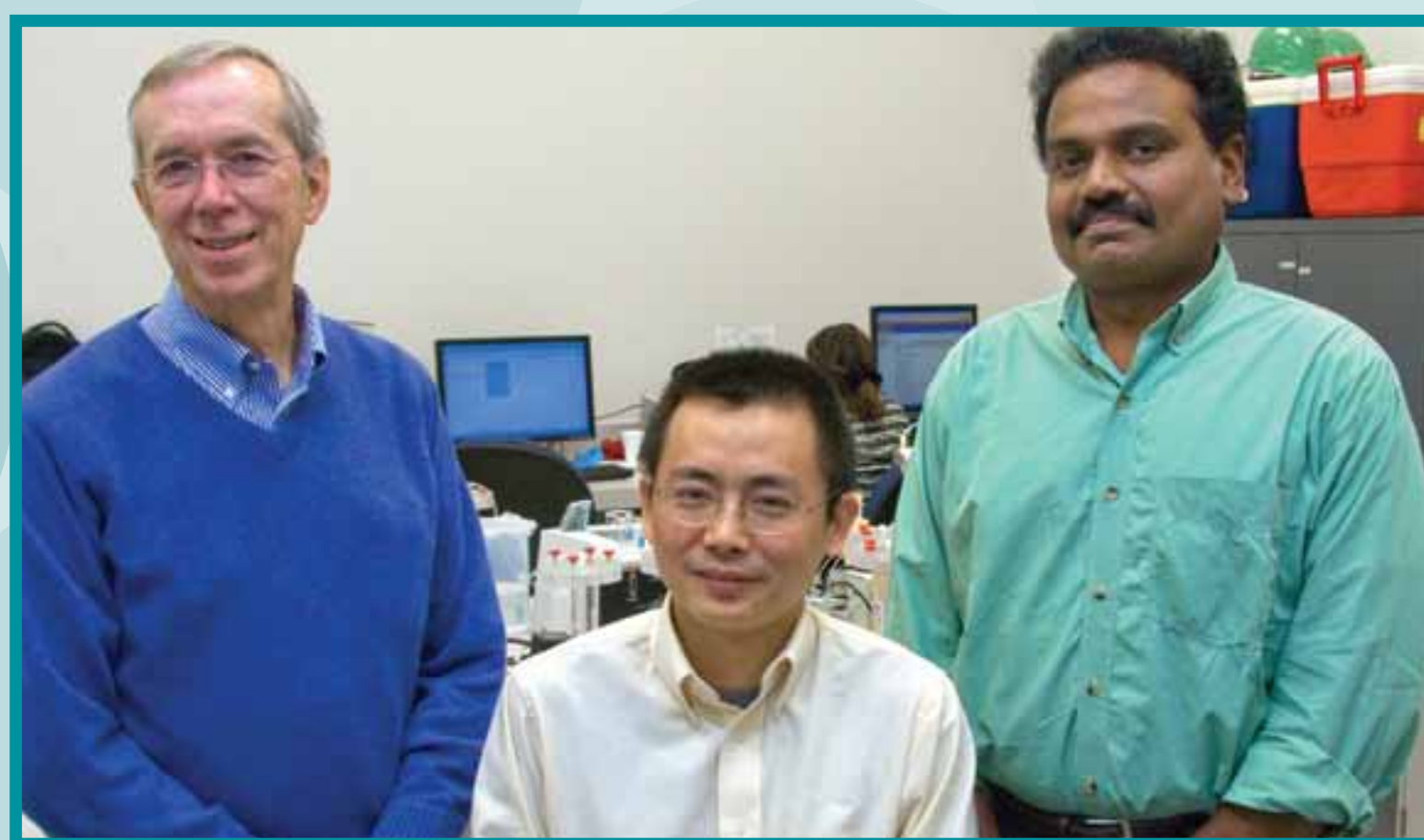
**Lead PI: Arthur S. Berg** - Department of Statistics  
**Co PIs: Rongling Wu, Kenneth J. Boote, C. Eduardo Vallejos, James W. Jones, Melanie J. Correll**

**Project Title:** Discovery of gene functions and their application using a novel statistical approach for integrating functional mapping and crop modeling



**Lead PI: Don L. Rockwood** - Forest Resources and Conservation  
**Co PIs: Jude W. Grosser, Matias Kirst, Junyong Y. Zhu**

**Project Title:** Propagation, demonstration, genotyping, and pretreatment of superior *Eucalyptus* clones for energy production in Florida



**Lead PI: Bin Gao** - Agricultural and Biological Engineering  
**Co PIs: Pratap C. Pullammanappallil, James W. Jones, Nicholas B. Comerford**

**Project Title:** Biochar land application: An immediate solution to global warming



**Lead PI: Glenn D. Israel** - Agricultural Education and Communication  
**Co PIs: Brian E. Myers**

**Project Title:** Assessing the contributions of career and technical education programs to math and science achievement



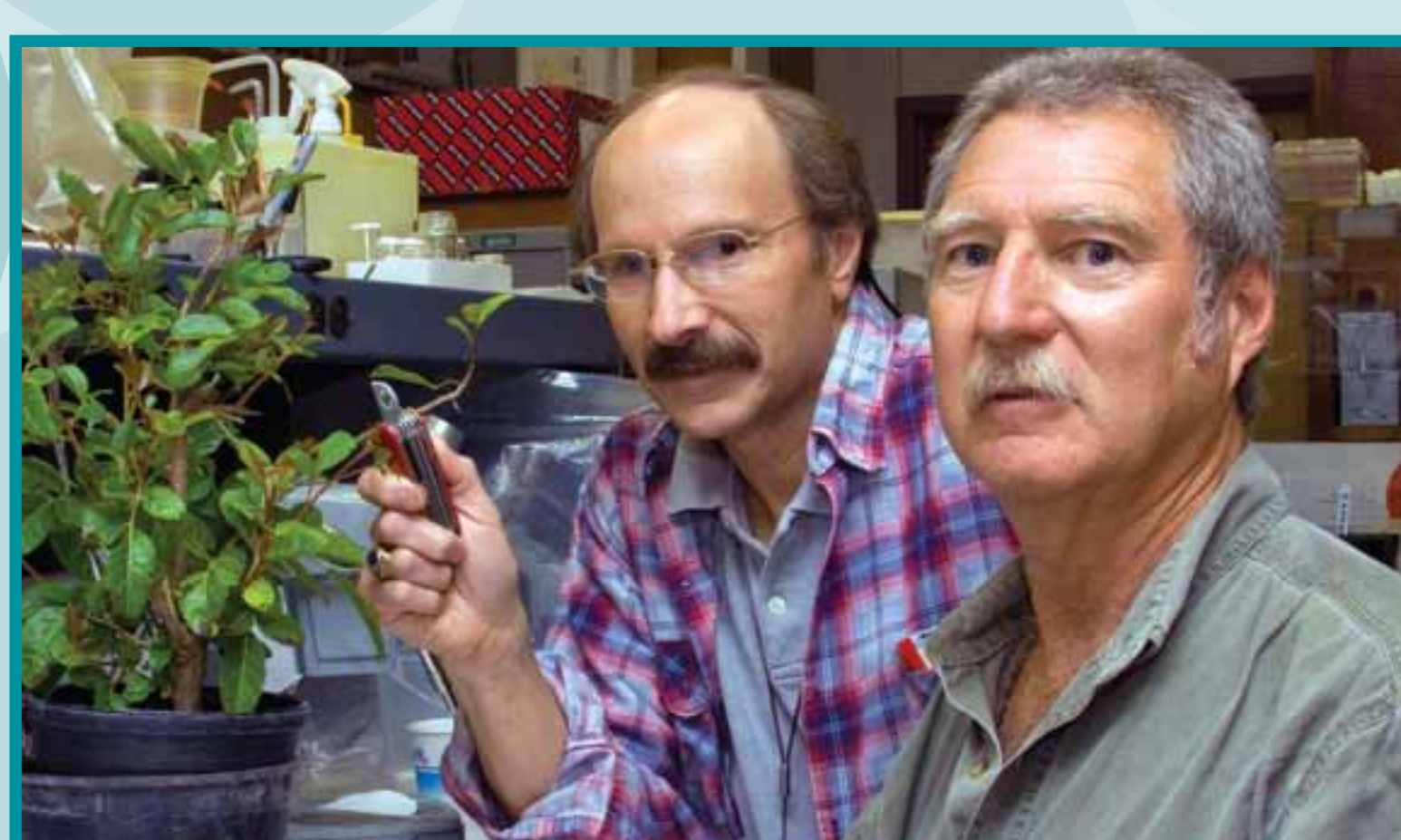
**Lead PI: Anita C. Wright** - Food Science and Human Nutrition  
**Co PIs: Mitchell D. Knutson**

**Project Title:** Role of the iron-regulatory and antimicrobial peptide hepcidin in preventing and mitigating bacterial foodborne infections



**Lead PI: Amr H. Abd-Elrahman** - School of Forest Resources and Conservation - GCREC - Balm  
**Co PIs: Ahmed H. Mohamed, Michael G. Andreu, Gurpal S. Toor, Scot E. Smith**

**Project Title:** Development of the IFAS Vegetation Mobile Mapping System (IVMMS) for natural resources, agriculture, and water quality applications



**Lead PI: William A. Overholt** - Entomology and Nematology - IRREC - Ft. Pierce  
**Co PIs: James P. Cuda, Dean Williams**

**Project Title:** Use of genotype matching to select the most effective biological control agents of the highly invasive weed, *Schinus terebinthifolius*



**Lead PI: Sanjay Shukla** - SWFREC - Immokalee - Agricultural and Biological Engineering  
**Co PIs: Robert Gilbert, Zane R. Helsel, Lonnie O. Ingram, Kelly T. Morgan**

**Project Title:** Comparing the environmental and energy merits of biomass crops