

Franklin

RESEARCH EXPERIENCE

1. Principal Investigator: Performance of selected botanicals and biopesticides against foliage feeding insect pests of egg plant, okra, pepper, long bean, waterleaf, and three edible Amaranthus spp, April 2011- Present.
2. Co-Investigator: Level of pesticide residues in fruits and vegetables sold at farmers markets in Alabama, September 2009-Present.
3. Co-Investigator: Level of pesticide residues in fruits and vegetables sold at farmers markets in Alabama, September 2009-Present.
4. Principal Investigator: Relative performance of five organic insecticides (with different modes of action) against cowpea insect pests, May 2010-Present.
5. Graduate Research Assistant: Performance of Indoxacarb and Chlorfiprole against eastern subterranean termites in houses (structures). Department of Entomology and Plant Pathology, Auburn University, December 2006-August 2009.
6. Principal Investigator: Temperature driven variation in toxicity of non-repellent insecticides against subterranean termites. Department of Entomology and Plant Pathology, Auburn University, December 2007-March 2008.
7. Graduate Research Assistant: Ebeling choice box studies on the performance of different bait compounds against German cockroach. Department of Entomology and Plant Pathology, Auburn University, August-December 2007.
8. Principal Investigator: Effects of indoxacarb and fipronil on the walking and tunneling abilities of subterranean termites. Department of Entomology and Plant Pathology, Auburn University, June 2007-November 2007.
9. Graduate Research Assistant: Field study on the relative efficacy of selected pesticides against monogyne fire ants. Department of Entomology and Plant

Quarcoo, F. 2011. Status of integrated pest management in black belt counties in Alabama and effects on food safety. ARD Biennial Meeting, Atlanta, Georgia

Quarcoo, F. 2011. Integrated Management of Armyworms and Colorado Potato Beetles in Vegetable Production 19th Annual Farmers conference, February 18, Tuskegee University Kellogg Conference Center, Tuskegee, Alabama.

Quarcoo, F. 2010 Behavioral Toxicology of Subterranean Termites. Seminar Series: Department of Agriculture and Environmental Science, Tuskegee University, September 22, Milbank Hall, Tuskegee, Alabama.

Quarcoo, F. 2010 Integrated Pest Management. Sustainable Agriculture Field Day, Tuskegee University Cooperative Extension Program, September 30, Mary Starke Harper Hall, Tuskegee, Alabama.

Research capabilities and interests

1. Performance of IPM tactics such as use of trap crops in the control of insect pests.
2. Performance of organic insecticides (especially biopesticides and botanicals) against insect pests.
3. Weatherdriven pest population dynamics.
4. Effect of pest management practices on pesticide residues on food products.
5. Insect toxicology
 - (a) Toxicological studies