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### **Area of Expertise:**

- Poultry safety
- Ecology and molecular biology of bacteria associated with poultry
- Antimicrobial resistance and pathogenicity of bacteria associated with poultry

### **Focus of Research:**

- Ecology of *Salmonella* and *Clostridium perfringens* in poultry
- Characterization of *Salmonella* and *Clostridium perfringens* recovered from broiler chicken using phenotypic and genotypic methods.
- Application of genotypic and phenotypic methods for tracking sources of *Salmonella* in poultry processing plants.
- Investigation of antimicrobial resistance, pathogenicity and control of *Salmonella* in poultry.

### **Current Funded Projects (Source):**

- The Changes of *Salmonella* Typhimurium throughout the lifecycle under environmental and antimicrobial stresses (USDA)
- Prevalence and characterization of *Clostridium perfringens* recovered from broiler chicken with necrotic enteritis (MERCK)
- Genotypic and phenotypic characterization of *Salmonella* recovered from processed poultry (USDA & FDA)
- The evaluation of bacteriophage reduction of *Salmonella* in ground chicken (Perdue Foods, LLC)