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### **Area of Expertise:**

- Immunology and immune responses of poultry
- Enteric diseases of chickens and turkeys
- Gut health
- Drug alternatives
- In ovo applications

### **Focus of Research:**

- Immune responses to coccidiosis and drug alternatives
- Understanding the mechanisms how probiotics and prebiotics impact gut development, integrity and immune function
- Necrotic enteritis mitigation methods
- *Salmonella* sp. and *E. coli* challenge models (chickens and turkeys)
- Development of avian immunological reagents, tools, and assays
- *Cochlosoma* in turkeys (with Dr. Bill Pierson)

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

- Performance of broilers fed probiotics and phytogenic additives during a necrotic enteritis challenge (Industry)
- Effects of phytogenic additives on performance and response of broilers to a coccidiosis challenge (Industry)
- Using probiotics to reduce *Salmonella* and *E. coli* [APEC] colonization in broilers (various industry sources)
- Pierson et al. – Testing the efficacy of feed additives against *Cochlosoma anatis* infection in turkeys (industry support)
- Generation and evaluation of avian cytokines and receptors against the mucosal pathogens *Mycoplasma*, *Clostridium* and *Eimeria* (various sources)



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