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**Area of Expertise:**

- Molecular virology
- Pathogenomics
- Innate immunity
- Vaccine development
- Metagenomics

**Focus of Research:**

- Molecular genetics and vaccine development of infectious laryngotracheitis virus
- Characterization of the avian innate immune responses to viruses and bacteria
- Characterization of the avian respiratory microbiome
- Improved molecular diagnostics for avian pathogens
- Transcriptional and post-transcriptional regulation of the avian inflammasome

**Current Funded Projects (Source):**

- Pathogenomics of infectious laryngotracheitis virus (USDA Animal Health)
- A Novel, translational, multidisciplinary approach to control respiratory diseases in the United States (USDA NIFA)
- Modified live vaccines of infectious laryngotracheitis virus (US Poultry & Egg Association)