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Area of Expertise:

- Host-pathogen interaction
- Cellular signal transduction
- Gut health
- Immunology

Focus of Research:

- Molecular mechanisms of Necrotic Enteritis development
- Antibiotic alternatives
- Gut immune development
- Microbiota signaling

Current Funded Projects (Source):

- Immune and Metabolic Kinome Analysis of Animal Samples to Study Feed Formulation, Disease and Food Safety (USDA ARS)
- A Comparative Evaluation of the Development of the Broiler chicken Gut Immune System (Evonik Nutrition & Care)
- Immune and Metabolic Kinome Analysis of Chicken and Bovine to Study Mechanism of Action of Feed Enzymes and Disease (Elanco Animal Health)
- The Development and Application of Wild Duck-Specific Peptide Arrays for Kinome Immunometabolism Analysis of Influenza Infection (USGS)
- Crosslinkage between gut fermentation, adiposity and immune response activates mesenteric adipose depot inflammation in dairy cows (CANR)

