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Area of Expertise:

- Microbiology (bacteriology)
- Farm animal production
- Prevention of foodborne infections
- Animal gut microbiome and health
- Synbiotics

Focus of Research:

- Food safety and zoonotic infections
- Antibiotic resistance
- Alternative growth promoter for farm animal
- Animal vaccine against zoonotic bacterial colonization
- Animal disease prevention

Current Projects are funded by:

- USDA (United State Department of Agriculture)-ARS (Agricultural Research Service)
- Research Development TIER-1 (University of Maryland)
- Delmarva Foundation (DE, MD and VA)