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Area of Expertise:

- Genetics and Breeding
- Genomics
- Muscle Diseases
- Metabolomics

Focus of Research:

- Genetic basis of Wooden Breast Diseases and White Striping in commercial broiler chickens
- Genomic imprinting and allele-specific expression in chickens
- Biological basis of variation in broiler's feed efficiency
- Characterization of polymorphisms in the duck genome

Current Funded Projects (Source):

- Verification of Allele Specific Expression in Chicken Embryonic Brain and Liver by using Minor Allele Finder (NIH NIGMS IDeA through Delaware INBRE).
- Genome-wide Identification and Functional Validation of Genes Causing Susceptibility to Wooden Breast Disease in Commercial Broiler Chickens (NIFA).
- Identifying the Onset of a Novel Muscle Disorder in Chickens Through Differential Gene Expression and Histologic Analyses (USPEA).