

**Primary Research Projects  
2016-2017  
Dairy Nutrition & Silage Fermentation Lab  
University of Delaware**

1. Improving the aerobic stability of silages with microbial and chemical additives
  - a. Understanding how additives affect the microbiome of silages during fermentation and aerobic spoilage
2. Partial inhibition of ruminal methanogenesis to reduce methane production and improve efficiency
3. Altering ruminal fermentation with direct fed microbials to improve animal performance
4. The use of exogenous acidic proteases to improve ruminal starch digestion after short periods of ensiling