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Area of Expertise:

- Poultry Health
- Biosecurity / Infection Control
- Agrosecurity / Agroterrorism Mitigation
- Microbiology
- Vaccinology
- Food Safety (poultry products)

Focus of Research:

- Hemorrhagic enteritis – turkeys (*Siadenovirus*, pathogenesis / vaccinology)
- *Salmonella* bioremediation (pre-harvest)
- Cochlosomiasis / Histomonosis (prophylaxis / treatment)
- Hepatitis E virus (*Hepevirus* – chicken, pathogenesis)

Current Funded Projects – Selected (Source):

- Meng, X.J., T. LeRoith, **F.W. Pierson (Co-I)**, L Yuan, A Chicken Model to Study Hepatitis E Virus Pathogenesis, 2013 (5 yr), NIH, RO1AI050611-Renewal (\$1,954,444).
- Evans, N.P., **F.W. Pierson (Co-PI)** N. Sriranganathan. Control of Hemorrhagic Enteritis in the Shenandoah Valley and Continued Research for Disease Prevention. 2015 (2yr) Cargill Turkey LLC. and Virginia Poultry Growers Co-Operative (\$270,750).
- Evans, N.P., P. Karnezos, M. Sims, N. Sriranganathan, **F.W. Pierson (Co-PI)**. Investigation of Medium Chain Fatty Acids for *Salmonella* Reduction in Poultry with the In-Vivo Imaging System. 2015 (1 yr) Land O'Lakes (\$10,273.00).
- **Pierson, F.W. (PI)**, G. El-Bagoury, Z. Aboezz. Transcriptional Analysis of the Turkey Hemorrhagic Enteritis Virus Genome. 2015 (2 yr) Egyptian Cultural and Educational Bureau, Egyptian Channel Program, Arab Republic of Egypt (\$10,000).
- **Pierson, F.W. (PI)**. Systematic Review of 9 VAC 20-120 - Regulated Medical Waste Regulations and Recommended Changes to Ensure Proper Handling of Highly Infectious Materials, 2016 (8 mo + 4 month extension) Virginia Department of Environmental Quality (\$125,000).
- **Pierson, F.W. (PI)**, H. Mahsoub, D. Lindsay, R. Dalloul, M. Persia. Testing the Efficacy of Feed Additives Against *Cochlosoma anatis* Infection in Turkeys, 2016 (1 yr) Butterball, LLC (\$18,000).