

## USDA ARS Project Proposals for the BI Veterinary Student Scholars Participants

### **1. NATIONAL BIO AND AGRODEFENSE FACILITY (NBAF)**

LOCATION: Manhattan, KS

PROJECT TITLE: If you cannot beat them, eat them: Harvesting disease vectors for animal food

PRIMARY MENTOR: Lee Cohnstaedt, PhD

### **2. ARTHROPOD-BORNE ANIMAL DISEASES RESEARCH UNIT (ABADRU)**

LOCATION: Manhattan, KS

PROJECT TITLE: Blood meal analysis of insects to better understand insect-host dynamics of vector-borne diseases

PRIMARY MENTOR: Bethany McGregor, PhD

### **3. NATIONAL ANIMAL DISEASE CENTER (NADC)**

LOCATION: Ames, Iowa

PROJECT TITLE: Strain screening procedures for field isolates of the chronic wasting disease agent

PRIMARY MENTOR: Justin Greenlee DVM, PhD

### **4. NATIONAL ANIMAL DISEASE CENTER (NADC)**

LOCATION: Ames, Iowa

PROJECT TITLE: Investigation of influenza A virus vaccine efficacy in swine and characterization of host-pathogen responses

PRIMARY MENTOR: Bailey Arruda, DVM, PhD

### **5. NATIONAL ANIMAL DISEASE CENTER (NADC)**

LOCATION: Ames, Iowa

PROJECT TITLE: Tuberculosis in livestock and white-tailed deer: Diagnosis, intervention strategies and immunologic responses to vaccination

PRIMARY MENTOR: Mitch Palmer, DVM, PhD

### **6. US MEAT ANIMAL RESEARCH CENTER (US MARC)**

LOCATION: Clay Center, NE

PROJECT TITLE: Strategies to control respiratory diseases of cattle: Changes in immune cell phenotype and respiratory microbiome associated with administering probiotics to feeder cattle

PRIMARY MENTOR: Carol Chitko-McKown PhD

### **7. ANIMAL PARASITIC DISEASE LABORATORY (APDL)**

LOCATION: Beltsville, MD

PROJECT TITLE: Optimizing therapeutic and dietary approaches to alleviate the negative impact of parasitism on growth in small ruminants

PRIMARY MENTOR: Robert Li, PhD

### **8. ANIMAL PARASITIC DISEASE LABORATORY (APDL)**

LOCATION: Beltsville, MD

PROJECT TITLE: Identification of biomarkers associated with Porcine Reproductive and Respiratory Syndrome virus (PRRSV) infection by comparing samples from porcine fetuses infected in-utero with high or low levels of PRRSV  
PRIMARY MENTOR: Joan Lunney, PhD

**9. AVIAN DISEASE AND ONCOLOGY LABORATORY (ADOL)**

LOCATION: East Lansing, Michigan  
PROJECT TITLE: Development and validation of PCR primer sets to amplify two T cell receptor genes in research layer chicken lines  
PRIMARY MENTOR: Cari Hearn, DVM, PhD

**10. ANIMAL DISEASE RESEARCH UNIT (ADRU)**

LOCATION: Pullman, WA  
PROJECT TITLE: Equine theileriosis drug susceptibility profile: Researching the in-vivo safety profile of tulathromycin in horses  
PRIMARY MENTOR: Lindsay Fry, DVM, PhD

**11. ANIMAL DISEASE RESEARCH UNIT (ADRU)**

LOCATION: Pullman, WA  
PROJECT TITLE: Bovine babesiosis risk of reintroduction into the U.S.: Validation of diagnostic assays.  
PRIMARY MENTOR: Massaro Ueti, DVM, PhD

**12. SOUTHEAST POULTRY RESEARCH LABORATORY (SEPRL)**

LOCATION: Athens, GA  
PROJECT TITLE: Characterizing host gene pathways critical for replication of Newcastle disease virus (NDV).  
PRIMARY MENTOR: Abhijeet Bakre, PhD