



VETERINARY SUMMER SCHOLARS PROGRAM PROJECTS, 2017-2020

(Alpha by Mentor last name)

- Mentor:** Gregory Amberg, BMS
Scholar: Lydia Smith-Osborne, NIH Trainee
Research Project: Visualization of calcium and oxidant signaling proteins in dopaminergic neurons
- Mentor:** Marisa Ames, CS
Scholar: Kaitlyn Brunk, Boehringer Ingelheim
Research Project: Comprehensive evaluation of the circulating renin-angiotensin- aldosterone system in normal dogs and dogs with stage B2/B3 myxomatous mitral valve disease
- Mentor:** Anne Avery, MIP
Scholar: Shaina Brown, Canine Lymphoma Foundation
Research Project: Differential phosphorylation between tumor and non-tumor T cells in canine T cell lymphoma
- Mentor:** Anne Avery, MIP
Scholar: Emily Garrison, Canine Lymphoma Foundation
Research Project: Enumerating regulatory T cells in lymphoma and leukemia
- Mentor:** Paul Avery, MIP
Scholar: Alana Kuzmik, NIH Trainee
Research Project: Further characterization of canine small B cell lymphomas
- Mentor:** Jessica Ayers, Lab Animal Resources
Scholar: Ben Singh, ASLAP Fellowship
Research Project: Analgesia and animal welfare
- Mentor:** Susan Bailey, ERHS
Scholar: Aryn Bordman, Boehringer Ingelheim
Research Project: Evaluating telomere length as a biomarker of reproductive stress and radiation exposure in Wild Boar and Japanese Rat Snakes
- Mentor:** Susan Bailey, ERHS
Scholar: Meredith Scarborough, NIH Trainee
Research Project: Telomeres and varying lifespans in a range of rodent species
- Mentor:** Angela Bosco-Lauth, BMS
Scholar: Audrey Walker, USDA Animal Health & Disease Scholar
Research Project: Evaluation of SARS-2 infection and transmission in domestic livestock
- Mentor:** Keara Boss, ERHS
Scholar: Alexandra Gold, Boehringer Ingelheim
Research Project: The combined effect of radiation and an experimental therapeutic on tumor response in cell culture



11. **Mentor:** Keara Boss, ERHS
Scholar: David Perry, NIH Trainee
Research Project: Measuring Tumor Oxygenation in Canine Cancer Patients Undergoing Radiotherapy using a Novel Optical Spectroscopy Device
12. **Mentor:** Keara Boss, ERHS
Scholar: Remy Watts, CVMBS Dean's Office
Research Project: Integrating immunotherapy with radiotherapy to improve tumor control for canine cancer patients
13. **Mentor:** Richard Bowen, BMS
Scholar: Michelle Evans, NIH Trainee
Research Project: Transmission of chikungunya virus between mosquitoes and ectothermic vertebrates within an artificial ecosystem
14. **Mentor:** Richard Bowen, BMS
Scholar: Sneha Krishnan, NIH Trainee
Research Project: Identification of ecotothem reservoir for Mayaro virus
15. **Mentor:** Richard Bowen, BMS
Scholar: Lauren Guilbert, USDA Animal Health & Disease Scholar
Research Project: Evaluate the susceptibility of peri-domestic rodents to infection with SARS-CoV-2
16. **Mentor:** Luciano Caixeta, CS
Scholar: Samuel Scheu, USDA Animal Health & Disease Scholar
Research Project: Evaluation of selective dry cow treatment on milk microbiome and post- partum udder health
17. **Mentor:** Elaine Carnevale, BMS
Scholar: Caroline Foley, Agriculture Experiment Station
Research Project: Viability of equine embryos produced in vitro can be determined by morphology and speed of development
18. **Mentor:** Gregg Dean, MIP
Scholar: Morgan Pearson, Boehringer Ingelheim
Research Project: Determining correlates of Immunity Associated with Feline Enteric Coronavirus Infection
19. **Mentor:** Gregg Dean, MIP
Scholar: Sophie Epstein, NIH Trainee
Research Project: Validating the specificity of candidate FIP aptamers using liquid chromatography with tandem mass spectrometry
20. **Mentor:** Gregg Dean, MIP
Scholar: Mikaela Henry, CVMBS Dean's Office
Research Project: Novel Vaccine for Feline Enteric Coronavirus using recombinant Lactobaccillus acidophilus
21. **Mentor:** Steve Dow, CS
Scholar: Jayne Ellis, NIH Trainee
Research Project: Use of psychotropic medications on intake to an animal shelter



to decrease stress related clinical signs in cats and dogs

22. **Mentor:** Steve Dow, CS
Scholar: Vanessa Rozo, NIH Trainee
Research Project: MucosImmune effects on the macrophage BOMAC cell line when stimulated by a bacteria

23. **Mentor:** Steve Dow, CS
Scholar: Brian DeFillippo, NIH Trainee
Research Project: Immune Modulatory Effects of Common Antibodies on Canine Adaptive and Innate Immune Responses

24. **Mentor:** Steve Dow, CS
Scholar: Grace Flynn, Boehringer Ingelheim
Research Project: Development of a Novel Topical Ocular Immunotherapy for the Treatment of Viral Diseases of the Eye

25. **Mentor:** Felix Duerr, CS
Scholar: Jack Pierce, Boehringer Ingelheim
Research Project: Defining Canine Tibial Long Axi

26. **Mentor:** Felix Duerr, CS
Scholar: Sydney Rosen, Morris Animal Foundation
Research Project: Prospective Evaluation of Orthoses in Canine Patients

27. **Mentor:** Colleen Duncan, MIP
Scholar: Brian DeFilippo, Boehringer Ingelheim
Research Project: Epidemiology of Cyanobacteria Toxicity in Pets in a Warming Climate

28. **Mentor:** Colleen Duncan, MIP
Scholar: Maria Koytcheva, One Health Initiative
Research Project: Development of an educational program for environmentally sustainable veterinary clinics

29. **Mentor:** Colleen Duncan, MIP
Scholar: Leah Sauerwein, One Health Initiative
Research Project: Development of an educational program for environmentally sustainable veterinary clinics

30. **Mentor:** Jeremiah Easley, CS
Scholar: Robert Hendrickx, Boehringer Ingelheim International
Research Project: Development of a clinically relevant rotator cuff tear model

31. **Mentor:** Ryan Ferris, CS
Scholar: Lauren Eytalis, USDA Animal Health & Disease Scholar
Research Project: Incidence of uterine bacterial contamination, biofilm, and latent bacteria following breeding in the horse

32. **Mentor:** Brian Foy, MIP
Scholar: Kyrie Ivanovich, NIH Trainee
Research Project: Control of mosquito-borne pathogens using endectocidal drugs and anti- vector vaccines

33. **Mentor:** Kate Freeman, CS



- Scholar:** Maggie Rollert, NIH Trainee
Research Project: Using a sentinel species to model cataract effects of ionizing radiation in Fukushima
34. **Mentor:** Laurie Goodrich, CS
Scholar: Bethany Liebig, NIH Trainee
Research Project: Platelet-rich plasma combined with bone marrow-derived mesenchymal stem cells to enhance long bone healing in a critical-sized defect
35. **Mentor:** Laurie Goodrich, CS
Scholar: Gabi Kawahisa Piquini, USDA Animal Health & Disease Scholar
Research Project: Amikacin toxicity in normal equine joint cells and mesenchymal stromal cells
36. **Mentor:** Lynn Griffin, ERHS
Scholar: Sarah Deluty, PetSmart Charities
Research Project: A Multi-institutional Study Comparing the Prevalence and Etiology of Rhinitis in Dogs with Sinonasal Cancers Treated with Fractionated Radiation Therapy vs. Stereotactic Radiation Therapy
37. **Mentor:** Lynn Griffin, ERHS
Scholar: Patricia Marquez-DiPaulo, CVMBS Dean's Office
Research Project: Predisposing Factors of Nasal Fistulas and Osteonecrosis Development Following Stereotactic Radiation Therapy
38. **Mentor:** Daniel Gustafson, CS
Scholar: Reed Schultz, NIH Trainee
Research Project: Cell death following the inhibition of autophagy in cancer cells
39. **Mentor:** Amanda Gurth, CS
Scholar: Haemin Park, NIH Trainee
Research Project: Generation of Metabolically Viable and Replication Incompetent Whole Cell Tumor Vaccines
40. **Mentor:** Eileen Hackett, CS
Scholar: Kelsea Ericksen, Boehringer Ingelheim
Research Project: Laser Plume Generation and its Potential Associated Risks
41. **Mentor:** Eileen Hackett, CS
Scholar: Kelsea Ericksen, NIH Trainee
Research Project: Characterization of Plumes Generated During Surgical Diode Laser Application
42. **Mentor:** Kelly Hall-Wilke, CS
Scholar: Jessica Rutten, Boehringer Ingelheim
Research Project: Analysis of the 2019 Registry Summary for the ACVECC VetCOT Trauma Initiative Annual Report
43. **Mentor:** Diana Hassel, CS
Scholar: Ally Creigh, USDA Animal Health & Disease Scholar
Research Project: Effects of acetylcholinesterase inhibition on quality of recovery and post-operative gastrointestinal dysfunction from isoflurane and sevoflurane-induced anesthesia in horses



44. **Mentor:** Kevin Haussler, CS
Scholar: Shana Wolfer, USDA Animal Health & Disease Scholar
Research Project: Tissue heating and cooling properties of a dry-interface pneumatic sleeve applied to the equine distal limb
45. **Mentor:** Fred Hoerndli, BMS
Scholar: Serena Mancha, NIH Trainee
Research Project: Regulation of iGluR transport and synaptic function with influence from Reactive Oxygen Species
46. **Mentor:** Tuula Hollmen, University of Alaska
Scholar: Jonathan Maxwell, USDA Animal Health & Disease Scholar
Research Project: Animal Health Impacts, Responses and Needs Arising from Climate Change in Alaska
47. **Mentor:** Ed Hoover, MIP
Scholar: Dave Bissinger, USDA Animal Health & Disease Scholar
Research Project: Rapid Sensitive Detection of Chronic Wasting Disease in Cervid Muscle
48. **Mentor:** Ed Hoover, MIP
Scholar: Lauren Bracchi, Foundation Funds
Research Project: Lymphoid Cell Infection During Early Prion Disease
49. **Mentor:** Naomi Hoyer, CS
Scholar: Lily Davis, Boehringer Ingelheim
Research Project: Determining the most efficacious method of feline maxillary nerve blocks
50. **Mentor:** Valerie Johnson, CS
Scholar: Kathryn Asatryan, USDA Animal Health & Disease Scholar
Research Project: Activated mesenchymal stem cell therapy for treatment of Klebsiella pneumonia infection in a murine model
51. **Mentor:** Rebekah Kading, MIP
Scholar: April Regas, USDA Animal Health & Disease Scholar
Research Project: Landscape characteristics associated with mosquito breeding and dispersal patterns around areas of livestock production
52. **Mentor:** Chris Kawcak, CS
Scholar: Megan Posukonis, Colorado Racing Commission
Research Project: Fracture Characterization in Computed Tomography and Radiography in Equine Thoroughbreds as a Retrospective Diagnostic Approach
53. **Mentor:** Chris Kawcak, CS
Scholar: Megan Posukonis Boehringer Ingelheim
Research Project: Characterization of Bone Mineral Density Variation in Equine Third Metacarpal Bones with and Without a Radiographic Phantom
54. **Mentor:** Lon Kendall, Lab Animal Resources
Scholar: Megan Ellis, ASLAP Trainee
Research Project: Genetic monitoring of laboratory cats



55. **Mentor:** Lon Kendall, Lab Animal Resources
Scholar: Jeffrey Kim, ASLAP Trainee
Research Project: Pain management in laboratory rats
56. **Mentor:** Lon Kendall, Lab Animal Resources
Scholar: Elizabeth Stietzle, ASLAP Trainee
Research Project: Mirtazapine use in Guinea Pigs
57. **Mentor:** Lon Kendall, Lab Animal Resources
Scholar: Ian Niu, ASLAP Trainee
Research Project: Pain assessment in rats
58. **Mentor:** Lon Kendall, Lab Animal
Scholar: Resources Alex Bailey, ASLAP Trainee
Research Project: Analgesia and animal welfare
59. **Mentor:** Seonil Kim, BMS
Scholar: Keira Sztukowski, AVMA/AVMF Fellowship
Research Project: HIV induces activity-dependent cerebral hyperexcitability via cGMP-dependent protein kinase II activation in the FIV infection model
60. **Mentor:** Seonil Kim, BMS
Scholar: Keira Sztukowski, NIH Trainee
Research Project: Molecular pathways underlying Feline immunodeficiency virus (FIV)-induced neuropathology
61. **Mentor:** John Kisiday, CS
Scholar: Misha Harrison, Boehringer Ingelheim
Research Project: A review of the therapeutic properties of mesenchymal stromal cells from different connective tissues
62. **Mentor:** Gabriele Landolt, CS
Scholar: Carson Zweck-Bronner, USDA Animal Health & Disease Scholar
Research Project: Surveillance of Colorado Equine Rescue Populations for Infectious Disease Shedding
63. **Mentor:** Michael Lappin, CS
Scholar: Sienna Drizen, PetSmart Charities
Research Project: Use of Psychotropic Medications on Intake to an Animal Shelter to Decrease Stress Related Clinical Signs in Cats and Dogs
64. **Mentor:** Michael Lappin, CS
Scholar: Meighan Hawks, Nestle Purina
Research Project: Effect of a Commercially Available Probiotic on Giardia Treatment Outcomes in Shelter Dogs
65. **Mentor:** Michael Lappin, CS
Scholar: Kim Kern, YIA
Research Project: Prevalence of Leptospira spp. antibodies in dogs in Baja Sur, Mexico
66. **Mentor:** Michael Lappin, CS
Scholar: Laurel Krause, Boehringer Ingelheim



- Research Project:** Evaluation of an in-clinic test for detection of Leptospire spp. antibodies in cats
67. **Mentor:** Michael Lappin, CS
Scholar: Laurel Krause, Morris Animal Foundation Scholar
Research Project: Evaluation of novel causes of chronic kidney disease in cats
68. **Mentor:** Michael Lappin, CS
Scholar: Natalia Gil, Nestle Purina
Research Project: Effect of a probiotic (Enterococcus faecium SF68) on cats with CKD
69. **Mentor:** Michael Lappin, CS
Scholar: Claire Hovenga, PetSmart Charities
Research Project: Assessment of a stress relieving diet on prevalence of upper respiratory disease and diarrhea in cats housed in a shelter
70. **Mentor:** Michael Lappin, CS
Scholar: Amy Zug, PetSmart Charities
Research Project: Assessment of an immunomodulator on the duration of signs of URI in s shelter dogs and cats
71. **Mentor:** Michael Lappin, CS
Scholar: Alidia Cornelissen, Boehringer Ingelheim
Research Project: Prevalence of bloodborne pathogens in client owned cats in the Netherlands
72. **Mentor:** Michael Lappin, CS
Scholar: Hayley Clark, YIA
Research Project: Effect of a Probiotic with Psyllium on Incidence of Diarrhea in Shelter Cats
73. **Mentor:** Michael Lappin, CS
Scholar: Kelsey Dobesh, YIA
Research Project: Serologic Responses to Oral Administration of a FHV-1 and FCV Containing Vaccine
74. **Mentor:** Michael Lappin, CS
Scholar: Sienna Drizen, YIA
Research Project: Streptococcus Equi Zooepidemicus Outbreaks in Colorado Shelter Dogs
75. **Mentor:** Michael Lappin, CS
Scholar: Jeremy Kiene, YIA
Research Project: Effect of a probiotic with psyllium on clavamox diarrhea in cats
76. **Mentor:** Michael Lappin, CS
Scholar: Whitney Weaver, YIA
Research Project: Parainfluenza virus outbreaks in client-owned dogs
77. **Mentor:** Michael Lappin, CS
Scholar: Anna Winner, PetSmart Charities
Research Project: Role of Streptococcus equi var. zooepidemicus and influenza viruses in cats with URI in shelters



78. **Mentor:** Del Leary, ERHS
Scholar: Adam Mattick, Boehringer Ingelheim
Research Project: Construction of a Machine Learning Database for Computed Tomography in Veterinary Medicine
79. **Mentor:** Amy MacNeill, MIP
Scholar: Bryce Zietz, Boehringer Ingelheim
Research Project: Innate Immune Response of Canine Cells to Oncolytic Virus
80. **Mentor:** Amy MacNeill, MIP
Scholar: Holly Grams-Johnson, Boehringer Ingelheim
Research Project: Characterization of the cellular immune response of solid canine tumors to recombinant myxoma virus
81. **Mentor:** Amy MacNeill, MIP
Scholar: Jasmine McCoy, NIH Trainee
Research Project: Myxoma virus with pro-apoptotic protein producing oncolysis in canine tumor cells
82. **Mentor:** Sheryl Magzamen, ERHS
Scholar: Bonni Beaupied, USDA Animal Health & Disease Scholar
Research Project: Cows as Canaries
83. **Mentor:** Sheryl Magzamen, ERHS
Scholar: Joshua Moore, USDA Animal Health & Disease Scholar
Research Project: Small Animal Health Impacts of Ambient Air Pollution
84. **Mentor:** Sheryl Magzamen, ERHS
Scholar: Bonni Beaupied, CVMBS Dean's Office
Research Project: Dairy Cows as Sentinels for Regional Air Quality in Colorado
85. **Mentor:** Candace Mathiason, MIP
Scholar: Shira Bleicher, Boehringer Ingelheim
Research Project: Characterization of the Placental Histostructure in Guinea Pigs
86. **Mentor:** Candace Mathiason, MIP
Scholar: Norine Ornellas-Walsh, Boehringer Ingelheim
Research Project: Developing an Immunologic Profile of Normal Mouse Placenta on Day 18.5 of Pregnancy
87. **Mentor:** Christie Mayo, MIP
Scholar: Morgan Miller, USDA Animal Health & Disease Scholar
Research Project: Monitoring levels of vector populations for Vesicular Stomatitis Virus
88. **Mentor:** Christie Mayo, MIP
Scholar: Elle Holbrook, USDA Animal Health & Disease Scholar
Research Project: Genetic characterization and comparative genome analysis of vesicular stomatitis virus isolates from Colorado
89. **Mentor:** Christie Mayo, MIP
Scholar: Rachel Conway, Mentor Funded
Research Project: Ecology of Vesicular Stomatitis Virus (VSV) in North America



90. **Mentor:** Christie Mayo, MIP
Scholar: Lauren Riggs, USDA Animal Health & Disease Scholar
Research Project: Co-infection of EHDV and BTV in Culicoides Cell Culture
91. **Mentor:** Christie Mayo, MIP
Scholar: Nicole Towner, USDA Animal Health & Disease Scholar
Research Project: Comparing genetic diversity of the Bluetongue virus genome under different ecological conditions
92. **Mentor:** Stephanie McGrath, CS
Scholar: Katie Redd, AKC Canine Health Foundation
Research Project: Efficacy of Cannabidiol for the Treatment of Epilepsy in Dogs
93. **Mentor:** Stephanie McGrath, CS
Scholar: Chase Gross, NIH Trainee
Research Project: The effect of cannabidiol on canine glioma cells
94. **Mentor:** Stephanie McGrath, CS
Scholar: Samantha Thomas, Mentor Funded
Research Project: Cannabidiol Clinical Trials in Dogs with Epilepsy
95. **Mentor:** Stephanie McGrath, CS
Scholar: Justine Stalnaker, Boehringer Ingelheim
Research Project: Efficacy of cannabidiol for the treatment of canine epilepsy
96. **Mentor:** Ashley McGrew, MIP
Scholar: Emily McDermott, Georgia Norris Scholar
Research Project: Exploration of the use of web-based tools in parasitology teaching and outreach
97. **Mentor:** Valerie Moorman, CS
Scholar: Elizabeth Larsen, USDA Animal Health & Disease Scholar
Research Project: Determination of short- and long-term prognoses for horses with navicular bursa abnormalities treated with navicular bursoscopy and stem cell therapy
98. **Mentor:** Yvette Nout-Lomas, CS
Scholar: Anthony Franceschelli, USDA Animal Health & Disease Scholar
Research Project: Using Inertial Measurement Units to Assess Gait Deficits Induced in the Horse by Blindfolding and Walking with the Head Elevated
99. **Mentor:** Francisco Olea-Popelka, CS
Scholar: Melissa Terry, USDA Animal Health & Disease Scholar
Research Project: Zoonotic Tuberculosis at the iNterface of Human, Livestock, and Wildlife Health
100. **Mentor:** Christine Olver, MIP
Scholar: Jennifer Schefski, Morris Animal Foundation
Research Project: Interaction of canine fibrinogen with Crotalus venom/Mitigation of snake envenomation using an alternative therapy on canine whole blood exposed to hemotoxic venom
101. **Mentor:** Rebecca Packer, CS



- Scholar:** Sarah Deluty, Boehringer Ingelheim
Research Project: Identifying Correlations in MR Spectroscopy and Brain Tumor Histology
102. **Mentor:** Rushika Perera, MIP
Scholar: Anna Pollard, NIH Trainee
Research Project: Peroxisome proliferator-activated receptors (PPAR) pathway is utilized to control lipid metabolism during Zika virus and Dengue virus infection
103. **Mentor:** Brendan Podell, MIP
Scholar: Noah Mishkin, NIH Trainee
Research Project: Vitamin A Deficiency's Role in Tuberculosis Risk
104. **Mentor:** Sandra Quackenbush, MIP
Scholar: Kelly Hicks, NIH Trainee
Research Project: Surveillance of Zika virus by using loop-mediated isothermal amplification (LAMP) in biofluids and insect vectors
105. **Mentor:** Sangeeta Rao, CS
Scholar: Katie Murray, USDA Animal Health & Disease Scholar
Research Project: Antimicrobial Resistance on Dairy Farms
106. **Mentor:** Sangeeta Rao, CS
Scholar: Katie Murray, USDA Animal Health & Disease Scholar
Research Project: Whole-Genome Sequencing to identify AMR determinants in Salmonella obtained from the dairy worker environment
107. **Mentor:** Dan Regan, CS
Scholar: Lauren Alfino, NIH Trainee
Research Project: Periostin in the Metastasis of Canine Osteosarcoma
108. **Mentor:** Dan Regan, CS
Scholar: Lauren Alfino, Boehringer Ingelheim
Research Project: The Effects of Integrin Inhibition on Canine and Human Osteosarcoma
109. **Mentor:** Elizabeth Ryan, ERHS
Scholar: Gregor Trebillod Dam, Boehringer Ingelheim
Research Project: The Complex Influences of Cancer Chemotherapy and Nutrition on the Canine Fecal Microbiome and Metabolome
110. **Mentor:** Mo Salman, CS
Scholar: Brooke MacNeill, Mentor Funded
Research Project: Tick Cattle Fever
111. **Mentor:** Kelly Santangelo, MIP
Scholar: Sydney Bork, Boehringer Ingelheim
Research Project: Dual Treatment of Sarcopenia and Osteoarthritis with a NRF2 activator
112. **Mentor:** Kelly Santangelo, MIP
Scholar: Sydney Bork, AVMA/AVMF Fellowship
Research Project: Efficacy of a Nrf2 agonist for disease and symptom modification of osteoarthritis



113. **Mentor:** Kelly Santangelo, MIP
Scholar: Cassie Seabart, Mentor Funded
Research Project: Contribution of Intra-Abdominal Immune Dysfunction to Musculoskeletal Inflammaging
114. **Mentor:** Arathi Seshradi, Soil and Crop Sciences
Scholar: Christina Geldert, USDA Animal Health & Disease Scholar
Research Project: Quantification of the gut microbiome of the honeybee (*Apis mellifera*) workers exposed to beneficial phytochemicals
115. **Mentor:** Mark Stenglein, MIP
Scholar: Emily Kastendieck, USDA Animal Health & Disease Scholar
Research Project: Compilation of a Genetic Database Utilizing Existing Data
116. **Mentor:** Mark Stenglein, MIP
Scholar: Zachary Osterholz, NIH Trainee
Research Project: Tick transmission of arenaviruses and bunyaviruses
117. **Mentor:** Mark Stenglein, MIP
Scholar: Mark Parlier, Boehringer Ingelheim
Research Project: Seroprevalence of Reptarenaviruses in Captive Snake Populations and Possible Vectors
118. **Mentor:** Sue VandeWoude, MIP
Scholar: Sarah Kechejian, Foundation funded
Research Project: Developing next generation sequencing approach for viral transmission in Florida Panthers
119. **Mentor:** Sue VandeWoude, MIP
Scholar: Sarah Kechejian, Boehringer Ingelheim
Research Project: Ecology of Feline Foamy Virus Infection in Pumas (*Puma Concolor*)
120. **Mentor:** Sue VandeWoude, MIP
Scholar: Veronica McCann
Research Project: Bobcat Infectious Disease Spread
121. **Mentor:** Sue VandeWoude, MIP
Scholar: Cassidy Stone, Boehringer Ingelheim
Research Project: Determination of feline hepadnavirus infections in cats in the US
122. **Mentor:** Allison Vilander, MIP
Scholar: Sabrina Waugh, CVMBS Deans Office
Research Project: Characterization of Antigen and Adjuvant Expression by Recombinant *Lactobacillus acidophilus* Strains for SARS-CoV-2 Vaccine Development
123. **Mentor:** Craig Webb, CS
Scholar: Allysa Galloni, Boehringer Ingelheim
Research Project: A Comparison of Microbiome Characterization Based Upon Collection Methodology and Storage Protocols
124. **Mentor:** Colleen Webb, Biology
Scholar: Hazel O'Doherty, Mentor Funded
Research Project: Spatial Distribution of Low Pathogenic Avian Influenza in Wild Migratory



Waterfowl

125. **Mentor:** Colleen Webb, Biology
Scholar: Hazel O'Doherty, USDA Animal Health & Disease Scholar
Research Project: Identifying spatial drivers of avian influenza virus using true prevalence estimations
126. **Mentor:** Kathryn Wotman, CS
Scholar: Maura Mack, USDA Animal Health & Disease Scholar
Research Project: Equine Ocular Squamous Cell Carcinoma Treatment with Interferon Alpha 2b: a pilot study
127. **Mentor:** Kathryn Wotman, CS
Scholar: Alena Strnadova, USDA Animal Health & Disease Scholar
Research Project: Activated Mesenchymal Stromal Cell Therapy in the Treatment of Equine Recurrent Uveitis

University of Alaska Program (currently funded through NIH)

1. **Mentor:** Karsten Hueffner, University of Alaska
Scholar: Olivia Reed
Research Project: Biomonitoring of Environmental Contaminants via Blood Soaked neuronal nicotinic acetylcholine receptors
2. **Mentor:** Molly Murphy, University of Alaska
Scholar: Jackie Rivero
Research Project: Analysis of blood-soaked filter paper for environmental agents of zoonotic concern in rural Alaska
3. **Mentor:** Todd O'Hara, University of Alaska
Scholar: Jennifer Anderson
Research Project: Biomonitoring of Environmental Contaminants via Blood Soaked Filter Papers
4. **Mentor:** Todd O'Hara, University of Alaska
Scholar: Marion Cambrelin
Research Project: The Use of Blood-Soaked Papers to Measure Selenium and/or Methyl Mercury Concentrations in Marine Mammals
5. **Mentor:** Lorrie Rea, University of Alaska
Scholar: Stephanie Rouse
Research Project: Serology comparison between Serum samples and Filter Paper samples for antibodies to Brucella and Coxiella in Alaskan Northern Fur Seals
6. **Mentor:** Lorrie Rea, University of Alaska
Scholar: Nicole DelPino
Research Project: Mercury concentrations and stable isotope values for Northern fur seals