



## VETERINARY SUMMER SCHOLARS PROGRAM PROJECTS, 2017-2020

(Alpha by Mentor last name)

1. **Mentor:** Gregory Amberg, BMS  
**Scholar:** Lydia Smith-Osborne, NIH Trainee  
**Research Project:** Visualization of calcium and oxidant signaling proteins in dopaminergic neurons
2. **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
3. **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
4. **Mentor:** Anne Avery, MIP  
**Scholar:** Emily Garrison, Canine Lymphoma Foundation  
**Research Project:** Enumerating regulatory T cells in lymphoma and leukemia
5. **Mentor:** Paul Avery, MIP  
**Scholar:** Alana Kuzmik, NIH Trainee  
**Research Project:** Further characterization of canine small B cell lymphomas
6. **Mentor:** Jessica Ayers, Lab Animal Resources  
**Scholar:** Ben Singh, ASLAP Fellowship  
**Research Project:** Analgesia and animal welfare
7. **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
8. **Mentor:** Susan Bailey, ERHS  
**Scholar:** Meredith Scarborough, NIH Trainee  
**Research Project:** Telomeres and varying lifespans in a range of rodent species
9. **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
10. **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 ecototherm 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:** 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:** Jassmine 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 or 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