

## Young Investigator Grants 2014-2015

| Grant # | Faculty  | Student              | Project  |
|---------|--|----------------------|--|
| 1       | Jessica Quimby   | Lara Barron          | Adipose-derived Mesenchymal Stem Cell Biology Studies Using Fat Donated from Cats Undergoing Abdominal Surgical Procedures   |
| 2       | Paul S. Morley, Brandi Burgess, Kristy L. Pabilonia, Matt Johnston | Anna C. Fagre        | Improved characterization of Salmonella enterica shedding among reptile patients at the James L. Voss Veterinary Teaching Hospital   |
| 3       | Felix Duerr, Angela Marolf   | Theresa M. Wendland  | Evaluation of Gait Patterns in Dogs: The Pace  |
| 4       | Rebecca Ruch Gallie, Matthew Levien                                | Lily Ngai            | Fecal cortisol and other measures of stress before and after clicker training cats in two Colorado animal shelters   |
| 5       | Stacey Byers, Jessica McArt  | Katlin Hornig        | Validation of the Heska Element POC TM Blood Gas and Electrolyte Analyzer for use in alpacas and goats   |
| 6       | Craig Webb, Tracey Webb  | Rebecca Timmons      | In vitro Optimization of Adipose-derived Feline Mesenchymal Stem Cells for the Treatment of Chronic Enteropathy in Cats  |
| 7       | Jessica Quimby, Daniel L. Gustafson                                | Kellyi Benson        | Pharmacodynamics and Pharmacokinetics of Transdermal Mirtazapine in Normal Cats  |
| 8       | Jenny Pendergraft  | Anna Brown           | Pharmacokinetics of cyclosporine (Atopica®, Novartis) at -20°C, a randomized, controlled cross-over study.   |
| 9       | Felix Duerr  | Jonathan Yashari     | Evaluation of a novel canine activity monitor for at-home physical activity analysis   |
| 10      | Craig Webb, Sara Wennogle  | Rebecca Timmons      | Fecal alpha(1) –proteinase inhibitor enzyme level as an independent and quantifiable measure of disease severity and response to treatment in adult dogs with chronic diarrhea of gastrointestinal origin. |
| 11      | Christine Olver, Raegan Wells, Stephen Mackessy                    | Amy Bell             | Effects of venom from the Prairie Rattlesnake (Crotalus viridis) on coagulation and fibrinolysis: in vitro evaluation using thromboelastography.   |
| 12      | Rebecca Ruch Gallie  | Emily Bryan          | Prevalence of Heartworm in Colorado Animal Shelters  |
| 13      | Lauren Sullivan, Emilee Venn, David Twedt                          | Alexander Barnes     | Serum D-Lactate Concentrations in Dogs with Parvoviral Enteritis   |
| 14      | Brad Borlee, Ryan Ferris   | Steven Lakin         | 16S rDNA Metagenomic Census of the Urogenital Tract in the Normal Mare and Mare with Endometritis of Streptococcus equi ssp. zooepidemicus Origin  |
| 15      | Jessica Quimby, Sarah Shropshire                                   | Robert Cerda         | Urine protein:creatinine ratio variability when comparing single, serial, or pooled urine samples from dogs with varying magnitudes of proteinuria currently receiving medical therapy                     |
| 16      | Jan Bright, Christian Weder, Luke Wittenburg, Christine Olver      | Petya Trifonova      | Multi-dose pharmacokinetics and pharmacodynamics of the commercially available formulation of oral apixaban in cats: a pilot study   |
| 17      | Valeria Scorza; Hanaa Thigeel                                      | Mandy van Koppen     | Validation of a 60 kDa glycoprotein (gp60) gene-based Polymerase Chain Reaction (PCR) assay for subtyping of Cryptosporidium parvum and Cryptosporidium hominis.   |
| 18      | Eileen Hackett, Dean Hendrickson                                   | Craig Schmidt Lesser | Single Paralumbal Fossa Laparoscopy for Elective Ovariectomy in Standing Mares   |
| 19      | Diana Hassel, Khursheed Mama                                       |                      | Effects of acetylcholinesterase inhibition on quality of recovery and post-operative gastrointestinal dysfunction from isoflurane and sevoflurane-induced anesthesia in horses                             |
| 20      | Yvette S. Nout-Lomas. Jenifer Gold, Diana Hassel                   | Heidi Immesberger    | Serum amyloid A as a predictor of completion in long distance endurance riding in horses   |
| 21      | Gregg Dean   | Jonathan Lee         | Assessment of Microbial Translocation and Chronic Inflammation in Cats   |
| 22      | Felix Duerr, Juliette Hart   | Kristin A. Freund    | Validation of Novel Technologies for Goniometry of the Canine Stifle   |
| 23      | Sandra Allweiler, Yenlie Zingale                                   | Adam Drury           | Validation and application of a method to evaluate peripheral nerve pain in dogs with thoracic or pelvic limb lameness   |
| 24      | Christin Olver; Kelly Santangelo                                   | Sarah Therio         | Measuring canine soluble transferrin receptor using novel commercial enzyme linked immunosorbent assays; progress toward diagnosing iron deficiency in chronically ill dogs                                |
| 25      | Hendrickson; Luke Whittenburg, Doreene Hyatt                       | Helen Sims           | Use of bioassays to evaluate the elution behavior of polyhexamethylene biguanide from two wound dressing materials to establish bandage change guidelines  |
| 26      | Nicole Ehrhart, Laura Chubb, Ruth Rose                             | Morgan Woodard       | Quantification of Canine Adipose Derived Mesenchymal Stromal Cells Seeded Onto a Demineralized Bone Matrix Scaffold  |