2012 Summer Research Program Retreat

Friday
August 17, 2012
10:00 am - 3:00 pm
Goss Lab Auditorium

List of Presentations
<table>
<thead>
<tr>
<th>Name</th>
<th>Mentor(s)</th>
<th>Project Title</th>
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<tr>
<td>Mallory Brink</td>
<td>Dr. Yasuko Rikihisa, mentor</td>
<td>Comparison of Recombinant Ehrlichial Antigens in the Serodiagnosis of Canine Monocytic Ehrlichiosis</td>
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<td>NIH T35/Merial Veterinary Scholar</td>
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<tr>
<td>Ryan Gaffke</td>
<td>Dr. Nongnuch Inpanbutr, mentor</td>
<td>Radiosensitization Effects of Calcitriol and Curcumin on Canine Transitional Cell Carcinoma in vitro</td>
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<td>Dr. Eric Green, mentor</td>
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<td>CVM Summer Research Fellow</td>
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<td>Patricia Gillen</td>
<td>Dr. Tracey Papenfuss, mentor</td>
<td>In vitro Production and Characterization of Canine Myeloid Derived Suppressor Cells (MDSC)</td>
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<td>Meaghan Glowacki</td>
<td>Dr. William K. Reeves, mentor</td>
<td>Arbovirus and Zoonotic Pathogen Surveillance for Thule Air Base, Greenland and American Samoa</td>
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<td>Dr. Michael Oglesbee, mentor</td>
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<td>Cornelia Peterson</td>
<td>Dr. Heather Chandler, mentor</td>
<td>Heat Shock Protein Expression in Canine Corneal Wound Healing</td>
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<td>Kate Scherer</td>
<td>Dr. Li Wu, mentor</td>
<td>Role of SAMHD1 in Restriction of Murine Leukemia Virus Infection</td>
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<td>Kenneth Brunson</td>
<td>Dr. Armando Hoet, mentor</td>
<td>Understanding the Molecular Epidemiology of S. aureus in Humans with Pets</td>
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<td>Erin Bryant</td>
<td>Dr. Thomas Wittum, mentor</td>
<td>Zoonotic pathogens in fresh chicken breasts from Retail Supermarkets</td>
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<td>Epperson Summer Research Fellow</td>
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<td>Johana Cenera</td>
<td>Dr. Thomas Wittum, mentor</td>
<td>Antimicrobial Resistance in Fresh Chicken Breasts from Retail Supermarkets</td>
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<td>Kathryn McCullough</td>
<td>Dr. Paivi Rajala-Schultz, mentor</td>
<td>Dairy Cow Behavior and Early Detection of Clinical Mastitis</td>
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<td>Helwig Summer Research Fellow</td>
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<td>Maggie Shoemaker</td>
<td>Dr. Barbara Wolfe, mentor</td>
<td>Effects of Stress on Neospora caninum Antibody Titers in Bison</td>
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<td>Dr. Marco da Silva, mentor</td>
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<td>Monahan Summer Research Fellow</td>
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| **Narry Tiao**  
Dr. William Saville, mentor  
CVM Summer Research Fellow | Seroprevalence of *Toxoplasma Gondii* in Free-Range Chickens from Ethiopia |
| --- | --- |
| **Mary Ann Tima**  
Dr. Armando Hoet, mentor  
Merial Veterinary Scholar | Identification of Virulence Factors, PVL and TSST, in Methicillin-Resistant Staphylococcus aureus (MRSA) isolated from Canine, Equines and the Environment at the OSU Veterinary Medical Center |
| **Mallory Titler**  
Dr. Gustavo Schuenemann, mentor  
Epperson Summer Research Fellow | Creating the Next Generation of Cow-care Standards for Transition Cow Diseases by Assessing Daily Cow Activity |
| **Grace VanHoy**  
Dr. Wondwossen Gebreyes, mentor  
NIH T35 Research Fellow | Biocide Intervention in Swine Production and Association with MDR Salmonella |
| **Lauren Wagner**  
Dr. Rebecca Garabed, mentor  
CVM Summer Research Fellow | Can Habitat Burning be used to Effectively Control Tsetse Fly Populations in Cameroon? |
| **Christine Widmann**  
Dr. Wondwossen Gebreyes, mentor  
Merial Veterinary Scholar | Genotypic Diversity of *Campylobacter coli* in Swine Herds from the Midwest, United States in Comparison to those Isolates Found Across the European Union |

**Afternoon Session**

| **Tara Amburgy**  
Dr. Brian Scansen, mentor  
CVM Summer Research Fellow | Angiographic Versus Echocardiographic Measures of Pulmonary Valve Diameter in Dogs with Congenital Pulmonary Valve Stenosis |
| --- | --- |
| **Juliet Armstrong**  
Dr. Ronaldo da Costa, mentor  
CVM Summer Research Fellow | Evaluation of Apoptosis in Spinal Cords of Dogs with Cervical Spondylomyelopathy |
| **Anri Benco**  
Dr. Carlos Pinto, mentor  
Dr. Monica Stoops, mentor  
P&G/IAMS Wildlife and Conservation Scholar | Urinary Cortisol Concentrations and Pharmacokinetics of Haloperidol in a Female Indian Rhinoceros |
| **L. Kay Drake**  
Dr. John Bonagura, mentor  
Paladin Summer Research Fellow | Echocardiographic Assessment of Left Atrial Size in Canine Mitral Regurgitation |
| **Kyla Ferguson**  
Dr. Brian Scansen, mentor  
CVM Summer Research Fellow | Echocardiographic Reference Values in Healthy Adult Bengal Cats |
| **Dana Gale**  
Dr. Tatiana Motta, mentor  
Merial Veterinary Scholar | The Use of 3D Motion Capture to Determine Optimal Suture Tension for Extracapsular Suture Repair of the Cruciate Deficient Stifle |
| **Gabriela Glucksman**  
Dr. Bianca Hettlich, mentor  
NIH T35 Research Fellow | Effect of an Intervertebral Disk Spacer on Stiffness after Monocortical Screw/Polymethylmethacrylate Fixation in a Simulated Canine Cervical Vertebral Model |
| **Taylor Kirby-Madden**  
Dr. Meghan Herron, mentor  
CVM Summer Research Fellow | The Effects of Environmental Enrichment on the Behavior of Shelter Dogs |
| **Heather Lane**  
Dr. James Belknap, mentor  
NIH T35 Research Fellow | Insulin-like Growth Factor-1 Receptor Signaling in an Experimental Model of Equine Metabolic Syndrome – Associated Laminitis |
| **Emily Marshall**  
Dr. Tony Buffington, mentor  
Dr. Bill Swanson, mentor  
P&G/IAMS Wildlife and Conservation Scholar | Relationship of Bladder Cancer to Nutrient Parameters in Fishing Cats and Comparative Assessment of Fish vs. Beef-Based Diets |
| **Michael Martinez**  
Dr. Matthew Allen, mentor  
NIH T35/Merial Veterinary Scholar | Effects of Implant Malpositioning on Load Transfer in Canine Total Knee Replacement |
| **Lauren Mundy**  
Dr. Alicia Bertone, mentor  
Merial Veterinary Scholar | Characterization of the Performance of a Proprietary Equine Bone Marrow Stem Cell Harvest System |
| **Valerie Nesser**  
Dr. Christopher Adin, mentor  
NIH T35/Merial Veterinary Scholar | Dual Nanoporous Encapsulation and Local Drug Delivery for Pancreatic Islet Cell Transplantation |
| **Kara Sheerer**  
Dr. C. Guillermo Couto, mentor  
CVM Summer Research Fellow | Hemostasis in the Scottish Deerhound |
| **Holly Snyder**  
Dr. Carlos Pinto, mentor  
NIH T35 Research Fellow | Anti-luteogenic Effects of PGF$_{2\alpha}$ Administration in Cyclic Mares |
| **Alex Weber**  
Dr. Barrak Pressler, mentor  
Dr. Josh Daniels, mentor  
NIH T35 Research Fellow | Efficacy and Adverse Effects of Nitrofurantoin Treatment of Bacterial Urinary Tract Infections in Dogs and Cats |
| **Brittany Welch**  
Dr. Samuel Hurcombe, mentor  
Morris Animal Foundation Veterinary Student Scholar | Evaluation of Dark Field Microscopy in Equine Large Colon Colic |
| **Ellen Wetli**  
Dr. Karsten Schober, mentor  
CVM Summer Research Fellow | Assessment of Left Atrial Size in Cats with Congestive Heart Failure |