### Tuesday, March 15, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00am – 8:30am</td>
<td>Coffee and Continental Breakfast</td>
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<tr>
<td>8:30am – 8:45am</td>
<td>Welcome - Leigh Griffiths, Research Committee Chair</td>
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<tr>
<td>8:45am – 9:20</td>
<td><strong>Musculoskeletal Biology</strong></td>
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<tr>
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<td>Damian Genetos, PhD, UC Davis School of Veterinary Medicine</td>
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<td></td>
<td><em>Moderator</em></td>
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<td>Kent Leach, PhD, UC Davis Biomedical Engineering</td>
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<td><em>Moderator</em></td>
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<td>Clare Yellowley, PhD, UC Davis School of Veterinary Medicine</td>
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<td><em>Cellular Environment: Impact on Bone</em></td>
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<td>8:45am – 9:20</td>
<td>Nancy Lane, MD, UC Davis School of Medicine</td>
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<td>Paul D. Allen, MD, PhD, UC Davis School of Veterinary Medicine</td>
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<td><em>Adventures in Skeletal Muscle EC Coupling in Health and Disease</em></td>
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<td>Dominik R. Haudenschild, PhD, UC Davis School of Medicine</td>
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<td>9:25am – 10:05</td>
<td><strong>Diagnostic Imaging</strong></td>
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<td>Mathieu Spriet, DVM, UC Davis School of Veterinary Medicine</td>
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<td><em>Quantitative Musculoskeletal MRI Stem Cell Tracking Positron Emission Tomography</em></td>
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<td>Simon Cherry, PhD, UC Davis Biomedical Engineering</td>
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<td><em>Center for Molecular and Genomic Imaging</em></td>
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<td>9:25am – 10:05</td>
<td>Ramsey Badawi, PhD, UC Davis School of Medicine</td>
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<td><em>A Total-Body PET Scanner for Biomedical Research</em></td>
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<td>Katherine Ferrara, PhD, UC Davis Biomedical Engineer</td>
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<td><em>Center for Image-Guided Nanotherapy (CIGN)</em></td>
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<td>Abhijit Chaudhari, PhD, UC Davis School of Medicine</td>
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<td><em>Advances in Magnetic Resonance Imaging and Image Analysis</em></td>
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<td>Alice Tarantal, PhD, UC Davis School of Medicine/Primate Center</td>
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<td>10:05am – 10:20am</td>
<td><strong>Break - Refreshments in Valley Hall commons</strong></td>
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<tr>
<td>10:20am – 10:50am</td>
<td><strong>Cardiovascular</strong></td>
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<td>Leigh Griffiths, VetMB, PhD, UC Davis School of Veterinary Medicine</td>
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<td><em>Moderator</em></td>
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<td>Scott Simon, PhD, UC Davis Biomedical Engineering</td>
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New Horizons Translational Research Colloquium  
Sponsored by the SVM Research Committee  
1030 Gladys Valley Hall

Javier Lopez, MD, UC Davis School of Medicine  
Cardiac Regeneration: a personalized approach

Crystal Ripplinger, PhD, UC Davis School of Medicine  
Mechanisms of Cardiac Arrhythmias

Lance Visser, DVM, UC Davis School of Veterinary Medicine  
Noninvasive Cardiac Imaging

**Pulmonary Medicine**

Lisa Miller, PhD, UC Davis School of Veterinary Medicine/Primate Center  
CNPRC Respiratory Disease Research

Kent Pinkerton, PhD, UC Davis School of Medicine/Veterinary Medicine  
Title Unavailable

Angela Haczku, MD, PhD, UC Davis School of Medicine/ Primate Center  
Title Unavailable

Bruce Hammock, PhD, UC Davis Cancer Research Center  
Title Unavailable

**Immunology**

Chuck Bevins, MD, PhD, UC Davis School of Medicine  
Antimicrobial Peptides as Mediators of Host-Microbe Interactions

Nicole Baumgarth, DVM, PhD, UC Davis School of Veterinary Medicine  
Title Unavailable

Colin Reardon, PhD, UC Davis School of Veterinary Medicine  
Mechanisms of Neuro-immune Communication

**Regenerative Medicine**

Dori Borjesson, DVM, PhD, UC Davis School of Veterinary Medicine  
Regenerative Medicine: Overview of Translational Research

David Simpson, PhD, UC Davis School of Veterinary Medicine  
Title Unavailable

Jan Nolta, PhD, UC Davis School of Medicine  
UC Davis Stem Cell Program: ‘Living Medicines’ and Regenerative Therapies

Amir Kol, DVM, PhD, UC Davis School of Veterinary Medicine  
Regenerative Medicine in Action: Canine IBD

Jerry Hu, PhD, UC Davis Biomedical Engineering  
Tissue Engineering of Musculoskeletal Soft Tissues

Derek Cissell, VMD, UC Davis Biomedical Engineering  
Imaging for Non-invasive Evaluation of Tissue Function and Repair
**Dentistry and Oral Surgery**
Boaz Arzi, DVM, UC Davis School of Veterinary Medicine
*Adipose-Derived Stem Cell Therapy for Feline Chronic Gingivostomatitis*
Frank Verstraete, DrMedVet, BVSc, MMedVet, UC Davis School of Veterinary Medicine
*Mandibular Reconstruction in Dogs*
Arnaud Bewley, MD, UC Davis School of Medicine
*Fluorescence Lifetime Imaging for Transoral Robotic Cancer Surgery Guidance*

1:45pm – 2:10pm

**2:15pm – 2:30pm**
Break - Refreshments in Valley Hall commons

**Oncology**
Robert Rebhun, DVM, PhD, UC Davis School of Veterinary Medicine
*Moderator*
Michael Kent, DVM, UC Davis School of Veterinary Medicine
*Comparative and Translational Oncology*

William Culp, VMD, UC Davis School of Veterinary Medicine
*Veterinary Interventional Oncology: Local Therapeutic Delivery*
James Angelastro, PhD, UC Davis School of Veterinary Medicine
*Targeting Transcription Factors to Treat Brain Cancer*
Michelle Steffey, DVM, UC Davis School of Veterinary Medicine
*Research Findings*

2:30pm – 3:00

**Gastrointestinal Biology**
Helen Raybould, PhD, UC Davis School of Veterinary Medicine
*Moderator*
Maria Marco, PhD, UC Davis Food Science & Technology
*Pivotal roles of Lactobacillus in intestinal and systemic health*
Melanie Gareau, PhD, UC Davis School of Veterinary Medicine
*Dysbiosis and the Developing Microbiota-gut-brain Axis*
Karen Ryan, PhD, UC Davis College of Biological Sciences
*Ryan Lab: Neuroendocrine Regulation of Metabolism*
Elizabeth Maga, PhD, UC Davis Animal Science
*Translating the Use of Lysozyme-rich Milk to Fight Diarrheal Illnesses*
Bethany Henrick, PhD, UC Davis Foods for Health Institute
*Investigating the Direct Effects of Glycans in Modulating Intestinal Epithelial Signalling*
New Horizons Translational Research Colloquium
Sponsored by the SVM Research Committee
1030 Gladys Valley Hall

Nutrition
Kimber Stanhope, PhD, UC Davis School of Veterinary Medicine
Does excess sugar consumption contribute to the epidemics of chronic metabolic disease?
Bruce German, PhD, UC Davis Food Science & Technology
Lactation – The Darwinian Engine of Nutrition
Peter Havel, DVM, PhD, UC Davis School of Veterinary Medicine
Studies in a Rhesus Monkey model of Diet-induced Metabolic Syndrome
Jon Ramsey, PhD, UC Davis School of Veterinary Medicine
Manipulating Dietary Protein or Water as Weight Loss Strategies for Cats
Rebecca Schmidt, PhD, UC Davis School of Medicine
Nutrition’s Role in Autism

Hepatology
Heather Knych, DVM, PhD, UC Davis CAHFS
Equine Drug Metabolism
Natalie Torok, MD, UC Davis School of Medicine
Non Alcoholic Fatty Liver Disease
Valentina Medici, MD, UC Davis School of Medicine
Methionine Metabolism, the Environment, and Liver Disease
Yvonne Wan, PhD, UC Davis School of Medicine
Title Unavailable
Scott Stanley, PhD, UC Davis CAHFS
Use of Equine Metabolites for Anti-Doping Control

Core Facilities
Julie Auger

Wine Reception - Valley Hall commons