



# Cancer Center

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

## 2024 PRECLINICAL IMAGING CONSORTIUM

May 29 – 31, 2024

The Don Elliman Conference Center, located on the 2nd floor of Anschutz Health Science Building (AHSB)

University of Colorado Anschutz Medical Campus

### Preliminary Agenda

#### Day 1 (5/29/2024):

- 12:00 pm      Pre-Symposium on multimodal molecular imaging (sign-up):  
Molecular FLI/CT (Revvity, 45 min + 15min Q&A)  
PET/CT, PET/MRI and SPECT/CT (Mediso, 45 min + 15min Q&A)  
Advanced MRI and PET/MRI (Bruker, 45 min + 15min Q&A)
- 4:00 pm      Opening Remark | Natalie Serkova
- 4:15 pm      **Keynote Lecture: “Building an Animal Imaging Facility in the Barrier Environment”** – Jori Leszczynski (CU AMC)
- 5:00 pm      **Session #1: High-Resolution MRI and CT in Animal Models**  
*Moderator: Evgenia Dobrinskikh*  
“Ultra-high resolution imaging MRI and CT” - Erik Shapiro (MSU)  
“Advanced mpMRI in PDX Models of Pediatric Brain Tumors” - Natalie Serkova (CU AMC)
- 6:30 pm      *Reception and Faculty/ Student Posters*

#### Day 2 (5/30/2024):

- 7:45 am      *Networking and Breakfast*
- 8:30 am      **Session #2: Molecular Imaging in Cancer and Infectious Disease Models**  
*Moderator: Tom Hu*  
“Imaging reactive oxygen species with 18F-4FN: Models of acute inflammation in the periphery and in the brain” - Federica Pisaneschi (UT Houston)  
“Integrating tumor biology with non-invasive imaging of brain tumors” - Pavithra Viswanath (UCSF)  
“Cancer Mouse Model Core approach to imaging” - Jennifer Koblinsky (Virginia Commonwealth University)
- 10:30 am      **Session #3: Advanced Imaging Applications in Animals**  
*Moderator: Francis Garay Triminio*

**“Novel Insights into TB using PET/CT Imaging”** - Charles Scanga (University of Pittsburgh)

**“Contrast enhanced CT in small animal imaging”** - Hong Yuan (University of North Carolina)

**“Facilitate Targeted Radionuclide Therapy (TRT) development using preclinical imaging”** - Tom Lo (RayzeBio)

12:30 pm

Table #1: Ultrasound | Discussion Leader: Marie-France Penet

Table #2: Photoacoustic | Discussion Leader: Sergey Ermilov

Table #3: Image Analysis | Discussion Leader: Kurt Augustine

Table #4: Image Analysis | Discussion Leader: Todd Sasser

Table #5: Service contracts | Discussion Leader: Rob Salmon

Table #6: Radioisotopes Industry View | Discussion Leader: Paige Kim & Chris Parr

Table #7: Radioisotopes Academia View | Discussion Leader: Andy Halloran

Table #8: Veterinary Support Services | Discussion Leader: Chris Manuel

2:00 pm

***Association for Biomedical Research Facilities (ABRF) Highlights***

*Moderator: Jenna Steiner*

**“The ABRF – A nationwide association to help you and your Core”** - Joe Dragavon (CU Boulder, Biofrontiers Advanced Microscopy Core, 2024 ABRF President)

**“S10 Awards for Preclinical Imaging: Colorado Experience”** - Natalie Serkova (Radiology, Colorado Animal Imaging SR)

3:00 pm

**Session #4: Vascular Imaging, Optical and Photoacoustic**

*Moderator: Marie-France Penet*

**“Image-Based Vascular System Biology – The next Frontier in imaging”** - Arvind Pathak (JHU)

**“Imaging vasculature and oxygenation-new insights using photoacoustic”** - Ralph Mason (UT Southwestern)

**“Contrast-enhanced ultrasound imaging for tracking type1 diabetes development”**- Richard Benninger (CU AMC)

5:00 pm

**Session #5: Image-guided interventions in animal models and companion animals**

*Moderator: Andrea Monti Hughes*

**“Evaluating dynamic immune and vascular responses to radiation therapy in canine sinonasal carcinoma”** - Keara Boss (CSU)

**“Advances in imaging and tissue preservation providing solutions to medical mysteries”** - Scott Echols (Scarlet Imaging)

6:30 pm

*Reception and Vendor Posters/ Power Pitches*

**Day 3 (5/31/2024):**

7:45 am

*Networking and Breakfast*

- 8:30 am      **Session #6: Quantitative Biomarkers and AI for Preclinical Imaging**  
*Moderator: Elena Carlson*  
“Quantitative imaging, more than pretty pictures” Chad Haney (Northwestern University)  
“Translating Optical Molecular Imaging for Fluorescence Guided Surgery” - Jim Delikatny (University of Pennsylvania)  
“Opportunities and challenges for AI in medical imaging” - Jayashree Kalpathy-Cramer (CU AMC)
- 10:15 am      **Keynote Lecture: “Future of Animal Imaging Cores”** - Rajesh Uthamanthil, DVM, PhD (Seattle Children’s Research Institute)
- 11:00 am      Closing Remarks – Natalie Serkova
- 11:15 am      Tours through Colorado Animal Imaging SR (BSL2 and BSL3), University of Colorado Research Imaging Center (CU-RIC), PharmaLogic Radiopharmacy and Cyclotron Facility (sign-up)
- 12:30 pm      *Lunch boxes*
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