



Cancer Center

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

2024 PRECLINICAL IMAGING CONSORTIUM

May 29 – 31, 2024

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

Round Table with Expert and Lunch

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

Table #2: Photoacoustic

Table #3: Animal Monitoring

Table #4: Image Analysis

Table #5: Service contract

Table #6: Radioisotopes

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: Jamie Henry

“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)

“TBA” - 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 and Chris Manuel
- 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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