



Colorado Clinical and Translational
Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS



University of Colorado
Cancer Center

2017 – 2018 Animal Imaging Workshop: Nuts and Bolts

Overview: The Animal Imaging Shared Resources (AISR) team intends to provide a broad overview on state-of-the-art small animal imaging modalities and protocols including 9.4 Tesla MRI, microCT, microPET/CT, microSPECT/CT, ultrasound, photoacoustic and optical imaging. A major focus will be on explaining a broad range of imaging protocols, use of contract/ molecular imaging tracers, and validation of quantitative imaging biomarkers for a specific disease and application. This will be expanded to hands-on-training on major modalities (small groups). This course is a series of half-day workshops to be held monthly; each of them is focused on a specific modality or workflow. The target audience are non-imaging scientists who are interested to implement imaging technologies into their biomedical research.

Workshop Director and Contact: For informal discussion of topics and relevance of prior topic, contact Dr. Natalie Serkova, Natalie.Serkova@ucdenver.edu or Justin Honce, Justin.Honce@ucdenver.edu

Schedule and Room. Workshops will be on the first Wednesday of each month (September 2017 through May 2018) from 1:30 pm to 5:00 pm, Building AO1, 2nd floor, Radiology, Sheridan Conference Room L15-2401. Snack and refreshments will be provided

Month	Day	Instructor	Topic
September 2017	Wed 9/6	Natalie Serkova	Introduction to Animal Imaging, Medical Physics , and Major Applications for Animal Imaging
October 2017	Wed 10/4	Jori Leszczynski	Introduction to Animal Handling, Physiological Monitoring and IACUC Protocol Preparation for Imaging
November 2017	Wed 11/1	Mark Borden	Ultrasound and Photoacoustic: Nuts and Bolts
December 2017	Wed 12/6	Mo Farhoud	Optical Imaging (Bioluminescence, Fluorescence, NIR): Nuts and Bolts
January 2018	Wed 1/3	Sana Karam	MicroCT and Image-Guided Irradiation: Nuts and Bolts
February 2018	Wed 2/7	Natalie Serkova	MRI, Nanoparticles: Nuts and Bolts
March 2018	Wed 3/7	Yubin Miao	microPET and microSPECT, Radioisotopes: Nuts and Bolts
April 2018	Wed 4/4	Natalie Serkova	Image Analysis and Quantitative Imaging Biomarkers
May 2018	Wed 5/2	Justin Honce	Major Applications of Imaging Biomarkers and their translation into the clinic

Please RSVP to Dr. Serkova at Natalie.Serkova@ucdenver.edu if you plan to attend any of the workshops

