



Animal Imaging Workshop

12th-13th of September 2019

- Level 2 Seminar Room, Centre for Advanced Imaging, Bldg 57, University of Queensland – St Lucia

Day 1 – Biodistribution

Day 1 – Imaging Basics and Biodistribution

9:30-9:50	Registration
9:50-10:00	Welcome, Housekeeping, & Intro to Program (Assoc. Prof. Kris Thurecht)
10:00-10:20	Positron Emission Tomography (PET) and Computed Tomography (CT) – Dr. Karine Mardon (NIF Facility Fellow and Facility Manager PET-CT)
10:20-10:40	Magnetic Resonance Imaging (MRI) – Dr. Gary Cowin (NIF Facility Fellow)
10:40-11:00	Optical Imaging and Photoacoustic Tomography – Dr. Zach Houston (Postdoctoral Fellow)
11:00-11:30	Morning Tea Break
11:30-1:00	Case Study 1 – Where does my compound go and how does it get there?
1:00-2:00	Lunch
2:00-4:00	Day 1 Practical: Biodistribution & Tumour Accumulation with PET-CT and Optical Imaging <ul style="list-style-type: none"> • PET-CT Imaging • Optical Imaging • Mouse dissection • Optical Ex Vivo and Radio Ex Vivo
4:00-4:30	Afternoon Tea (Group Photo)
4:30-5:30	Live Data Analysis and Discussion
5:30-6:00	Questions
6:00-8:00	BBQ & Drinks



Day 2 – Image Guided Therapeutics

Morning Session – Therapeutic Efficacy

9:00-10:30	Day 1 Recap and Case Study 2: <i>How effective is my drug delivery platform?</i>
10:30-11:00	Morning Tea
11:00-1:00	Day 2 Practical: Understanding Disease State with PET-MRI and Optical Imaging to Evaluate Therapeutic Efficacy <ul style="list-style-type: none"> • PET-MR Imaging • Optical Imaging • Ex Vivo Imaging • Blood Assays • Health Assessment
1:00-2:00	Lunch
2:00-3:00	Day 2 – Image Analysis for Therapeutic Efficacy <ul style="list-style-type: none"> • Multimodal Image Comparison • Postmortem Ex Vivo Techniques: Confocal, FACs, Counting • Drug Distribution (Colocalization and Extravasation)
3:00-3:30	Wrap Up and Quick Overview on Animal Models
3:30-5:00	Open Discussion Time & Afternoon Tea
5:00	Head to Airport (for 7:30 pm or later flights)