

Week 1					
	Monday 7/20/2026 (BSP 082)	Tuesday 7/21/2026 (BSP 082)	Wednesday 7/22/2026 (BSP 082)	Thursday 7/23/2026 (BSP 082)	Friday 7/24/2026 (BSP 082)
9:00-10:00 AM	NSG mice: Introduction	The basic principles of imaging scanners Optical and CT	Operation of IVIS scanner	Operation of microCT scanner	Operation of microPET scanner
10:00-11:00 AM	NSG Mice: Ethical considerations				
11:00-12:00 AM	NSG Mice: Experimental Design				
12:00-1:00 PM	Lunch	Lunch	Lunch	Lunch	Lunch
1:00-2:00 PM	Vivarium Tour and Demo based mouse handling, anesthesia, injections (DARS and Marisa)	PET intro	Discussion about data format and applications	Discussion about data format and applications	Discussion about data format and applications
2:00-3:00 PM		General Safety Training in Imaging (Changqing & EHS)	Post processing of IVIS scanner. (Changqing, David, Marisa)	Post processing of microCT scanner.(Changqing, David, Marisa)	Post processing of microPET scanner (Changqing)
3:00-4:00PM					
4:00-5:00PM	Discussion/ Assessment	Discussion/ Assessment			Course Evaluation and reception
Week 2					
	Monday 7/13/2026 (BSP 304)	Tuesday 7/14/2026 (BSP 202)	Wednesday 7/15/2026 (BSP 202)	Thursday 7/16/2026 (BSP 202)	Friday 7/17/2026 (BSP 202)
9:00-10:00 AM	Cell Characterization (Fluorescence and Confocal Microscopy)	Cell Characterization (Cytometry)	Macro Development	Histology	H&E staining
10:00-11:00 AM	Image Processing	Image Processing (own data)	Image Processing (continue)	Tissue Processor and Embedding	
11:00-12:00 AM					
12:00-1:00 PM	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
1:00-2:00 PM	Confocal Microscopy (hiPSCs and controls)	Sample Staining	EC Staining	Microtome	Imaging Histology slides
2:00-3:00 PM					
3:00-4:00PM	Epifluorescence Microscopy (hiPSCs and controls)	Flow Cytometry Analysis	Flow Cytometry Sorting ECs	Histology Blocks	Discussion of Images
4:00-5:00PM					Course Evaluation and Reception

Lectures
Hands-on Laboratories
Meal Break
Computational labs