

**BP210: Biological Light Microscopy**  
**Lab 6: Introduction to Light-Sheet, SIM and Deconvolution software**

**Goal:** To see one of the light sheet microscopes in the CALM, the iSIM, the OMX Structured Illumination microscope, and to work with deconvolution software. To understand how deconvolution can be used for experiments and important details to pay attention to for data acquisition.

Location: GH S252 and GH 3rd floor

Available microscopes/stations:

1. Snouty: Single Objective Light Sheet microscope, optimized for very fast optical slicing with minimal photo-damage at high numerical aperture ( $> 1.2$ ), works best for relatively thin samples ( $< \sim 100$  microns)
2. OMX/Deconvolution. TIRF, structured illumination and deconvolution microscope
3. iSIM. Instant Structured Illumination microscope in the Mullins lab 3rd floor.