

| Time | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------|---|--|---|--|------------------------------------|---|
| 9 | Introduction, microscope optical path, Kohler (Kurt) | Camera / digital imaging (Nico) | Confocal & TIRF (Steve) | Image presentation and discussion | Image analysis (Kurt/Nico) | Rotation lab: STORM, FRAP, FRET, 2-photon |
| 10 | Lab 1: Brightfield / Kohler illumination | Lab 4: Camera calibration | Lab 7: Confocal (LSM / spinning disk), Widefield (epi / TIRF) | Lab 10: Live cell imaging (confocal / widefield) | Lab 13: Image analysis (manual) | |
| 11 | | | | | | |
| 12 | DIC / Phase contrast (Ryan) | PSF, resolution, aberrations (Kurt) | Fluorescent proteins (Xiaokun) | FRET and optical sensors (Xiaokun) | Super-resolution microscopy (Bo) | |
| 13 | Lunch | Lunch | Lunch | Lunch | Lunch | Lunch |
| 14 | Lab 2: DIC / Phase contrast (zebra fish?) | Science talk, Jody Puglisi | Live cell imaging (time resolution, photobleaching phototoxicity) (Jennifer Fung) | 2-photon microscopy (Max) | Lab 14: Image analysis (Scripting) | Rotation lab: STORM, FRAP, FRET, 2-photon |
| 15 | Fluorescence, fluorescence optics (Bo) | Lab 5: Scope calibration | | | FRAP / photoactivation (Torsten) | |
| 16 | Science talk, Max Krummel | Immunofluorescence, small molecule dyes (Bo) | Science talk, Lihong Wang | Science talk, John McLaughlin | Science talk, Orion Weiner | |
| 17 | | | | | | |
| 18 | Dinner | Dinner | Dinner | Dinner | Dinner | Dinner |
| 19 | Demo: Building a microscope (Kurt / Bo) | Demo: backfocal plane and Fourier optics (Kurt / Nico) | Demo: Taking apart a microscope (Steve) | How to buy a microscope? (TI) | Vendor demonstrations | Free time outing |
| 20 | Lab 3: Fluorescence microscopy: wide-field imaging of immunostained sample through the eyepiece | Lab 6: Fluorescent staining of nucleus and membrane Two-color imaging | Lab 9: Confocal (LSM / spinning disk), Widefield (epi / TIRF) | Lab 12: Phototoxicity | | |