

A sunset over a harbor with sailboats. The sky is dark with a large, bright orange and yellow cloud formation. The water is dark, and several sailboats are visible in the harbor. The foreground shows the dark silhouette of a pier or dock.

2018 Physiology Course Microscope Systems

Important contact information

Course Microscopy Coordinators

Joe Brzostowski
240-599-6364

Steven Wilbert
585-802-4733

Central Microscopy Facility

Louie Kerr
508-289-7273
lkerr@mbl.edu

David Conlon
dconlon@student.br
idgew.edu

On-site Microscopy Vendors

Zeiss
Jim Mcilvain
Office: Basement, G64

Nikon
John Allen
Office: Basement, G67

Three sources of microscopes available for use by the course:

Third floor scopes: These are exclusive to the course with the exception of the Leica SP8 confocal system and the Andor Dragonfly

Basement scopes: Located in the basement of Loeb. These scopes are open to the MBL and you must sign up using the PPMS system and you must be trained by the manufacturer. If you need training, Joe or Steven to coordinate. You are welcome to speak with the Zeiss (G64) and Nikon folks (G67) at their offices in the basement of Loeb too.

Central Microscopy Facility (CMF) scopes: Located in Lillie or Rowe. These scopes are open to the MBL and you must sign up using the PPMS system and you must be trained by the by the folks in the CMF.

Signing up for third floor microscopes

- Sign up is daily and opens at 10PM for time slots beginning at 8AM the next day
- Negotiate to meet everyone's needs
- Sign up for Sunday and Monday starts on Saturday at 10PM
- Notify the group by email if you cancel and scratch your name off the sheet
- Do not throw away previous week's signup sheet

Nikon Widefield

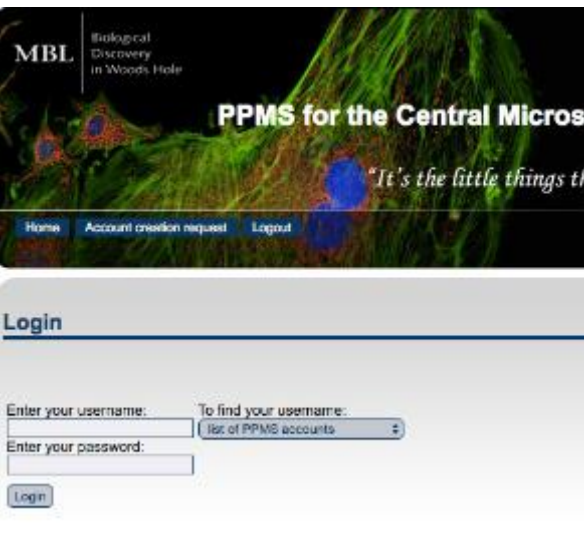
	Sun Jan 15	Mon Jan 16	Tue Jan 17	Wed Jan 18	Thurs Jan 19	Fri Jan 20	Sat Jan 21
5:00am-6:00am							
6:00am-7:00am							
7:00am-8:00am							
8:00am-9:00am							
9:00am-10:00am							
10:00am-11:00am		Huguel Huguel					
11:00am-12:00pm		Huguel					
12:00pm-1:00pm		Huguel					
1:00pm-2:00pm							
2:00pm-3:00pm							
3:00pm-4:00pm							
4:00pm-5:00pm							

Signing up for shared microscopes

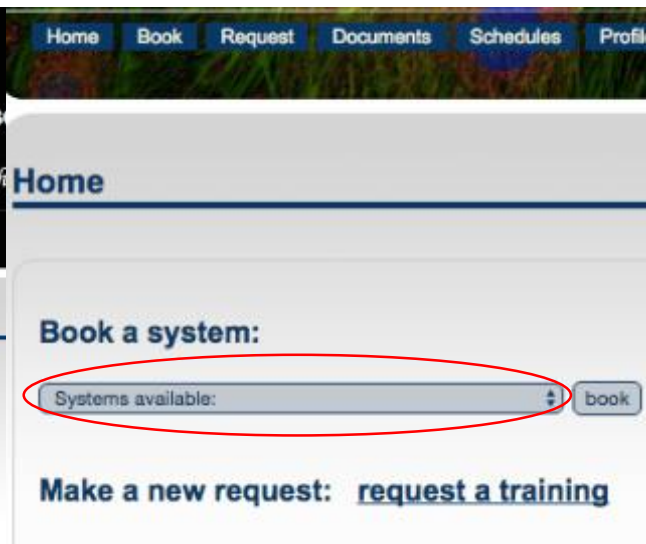
www.ppms.us/mbi

User Name: physiology Student

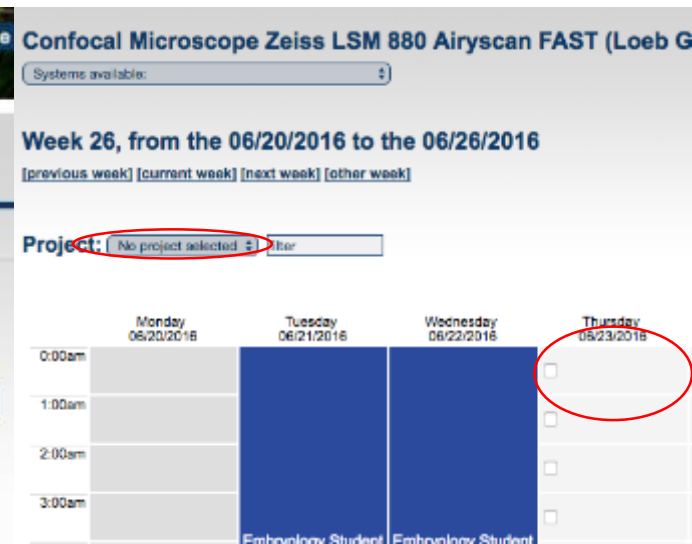
Password: mbypass



Login using the provided credentials



Select a system



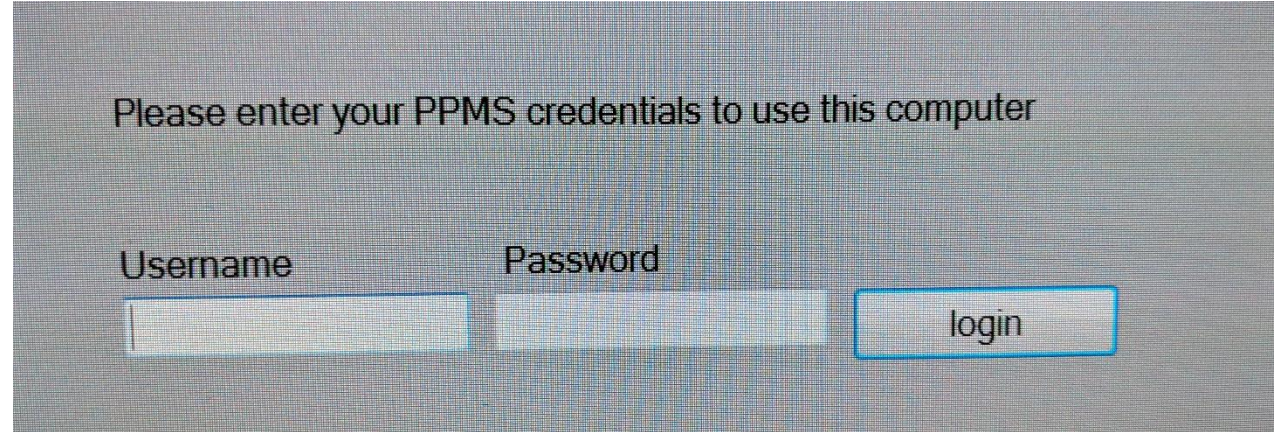
Select a project, choose time blocks

Using shared microscopes

Log into microscope computer

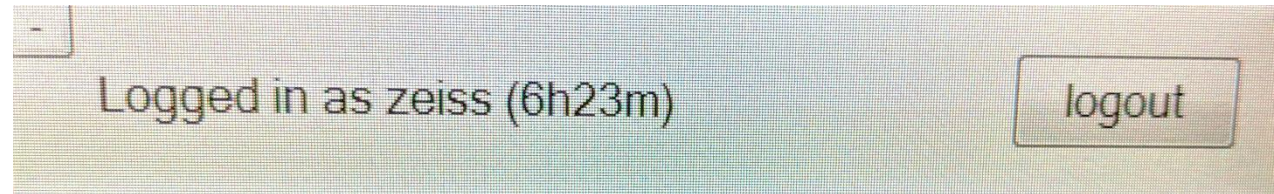
This PPMS window should load >

If not, click icon on desktop "PPMS Reboot"



When finished, log out of PPMS tracker (if system staying on)

Or shut down computer without logging out of the PPMS tracker



CMF specific microscopes

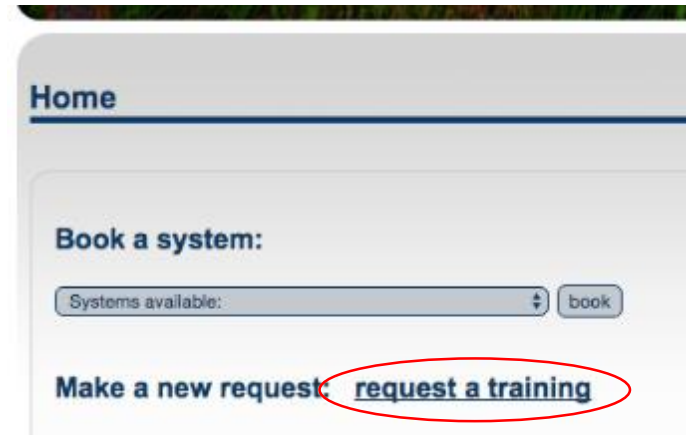
Director: Louie Kerr

<http://www.mbl.edu/services/research/cmf/>

Be aware that MBL-owned microscopes are fee-for-service (~25/hr) and comes out of the section budget

Request a training:

Book in advance, not immediate

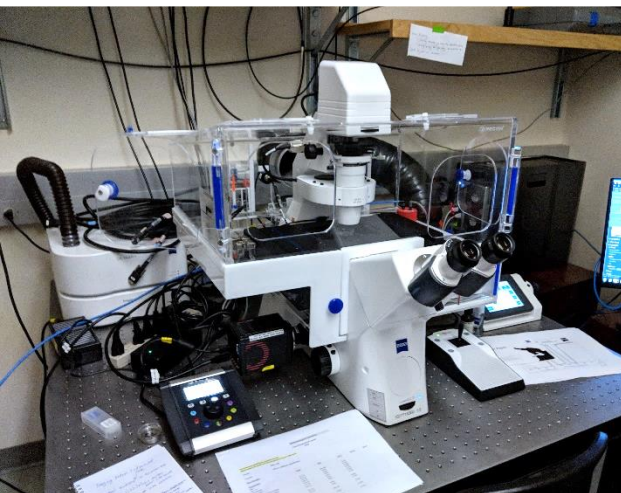


Usage rules

- Do not use a system unless you are trained
- Keep the microscope area clean (Clean the lenses, throw away your chambers)
- Do not move parts from one microscope to another without speaking to Joe, Steven or the field rep
- NEVER apply excessive force to a piece of precision equipment – if you're forcing it you're doing it WRONG 😊
- Accidents happen – please notify Joe or Steven ASAP. If the accident involves a liquid, please clean it quickly then come get Joe or Steven

Widefield

Zeiss



Nikon



GE OMX



GE DeltaVision



Keyence



Thermo



Zeiss Axio Zoom

TIRF

GE OMX



Nikon



Oxford Nanolmager



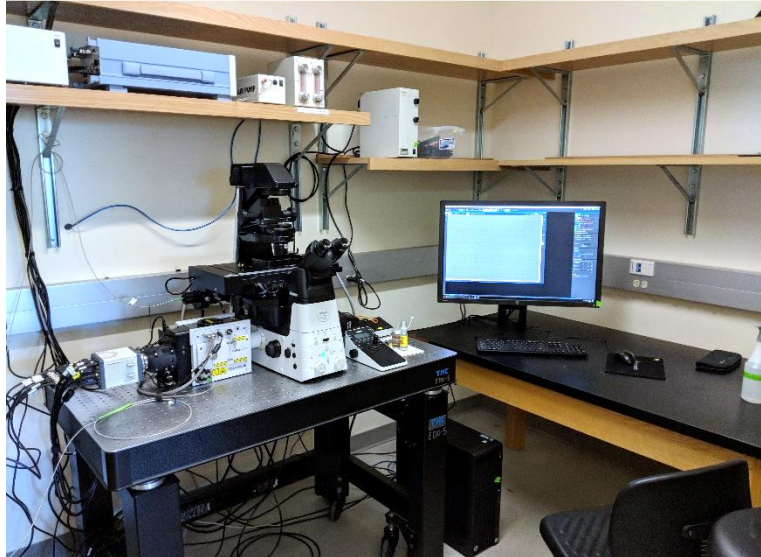
Nikon



Andor Dragonfly

Spinning Disk

Nikon



Zeiss



Bruker Opterra



Andor Dragonfly

Laser Scanning Confocal

Zeiss 880



Nikon A1R



Zeiss 800



Leica SP8

Super Resolution

Zeiss 880



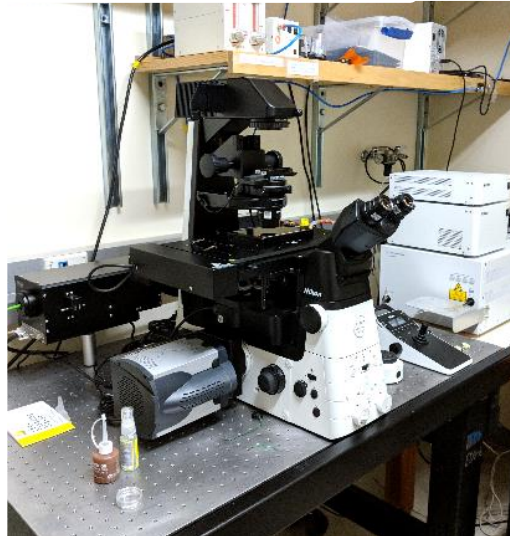
GE OMX



Oxford Nanomager



Zeiss 800



Nikon STORM



Nikon SIM

Specialty

Alveole Primo



PCO HSC



Ametek HSC



EsSEN Incucyte



Olympus Bioluminescence



Lumicks Optical Trap

Thank you vendors!

Microscope Systems

Zeiss
Nikon
Leica
Olympus
Andor
GE
Thermo
Keyence
Essen
Lumicks

Cameras

-Hamamatsu
-PCO
-Andor
-Ametek

Stages

-Prior
-ASI

Incubation

-OKO Labs
-Tokai Hit

Lunch and learns

Speaker	Topic	Date
Joe + Steven	Introduction to microscopy systems available	Boot Camp 6/13/2018
Jim Mcilvain	Basics, Abbe Diffraction Demo	Session 1 6/20/2018
Geoff Daniels	Falcon FLIM	Session 1 6/27/2018
Jim Sims	Cameras, chalk talk	Session 2 7/3/2018
Hélène Delobel	Alveole / Primo	Session 2 7/5/18
GE Rep	WF/SIM	Session 2 7/11/2018
Hari Shroff	SPIM	Session 3 7/18/2018
Rudolf Oldenbourg	Polarization	Session 3 7/25/2018
Imaris Rep	Imaris for 3D rendering and processing *DEMO With Beer*	Session 1 6/26/2018



OFFICE
359A
98 SF

FACULTY OFFICE
359
301 SF

OFFICE
359B
99 SF

T.C./LAB
358
261 SF

LAB-02
357
790 SF

LAB-03
360
709 SF

TEMP CONTR
366
62 SF

Nikon WF1
PRIMO
MIC
367
90 SF

CHEM. PREP
368
146 SF

EQUIP
365
605 SF

COMP/BREAK
356
508 SF

OFFICE
355A
101 SF

OFFICE
355B
100 SF

FACULTY OFFICE
355
312 SF

354
71 SF

Lumicks
Optical Trap
MIC
361
117 SF

GE OMX
EQUIP
362
113 SF

Delta Vision
MIC
363
94 SF

Nikon
Spinning Disk
MIC
364
97 SF

Nikon TIRF
MIC
372
105 SF

MIC
373
173 SF

Zetss WF 1,2,3

COMP.
374
557 SF

Keyence WF

Dragonfly

MIC 369
102 SF

ELEC.
370
83 SF

LAB-01
353
735 SF

352
233 SF

The Bomb Shelter

NanoImager