

HCBI Tissue Clearing Workshop 2017

Friday October 27th, 2017

All lectures in Biological Labs Lecture Hall, RM 1080, 16 Divinity Ave., Cambridge

8:30 - 9:00	REGISTRATION	
9:00 – 9:15	Welcome and Announcements	Doug Richardson, Harvard University
9:15 – 10:00	Light Scatter in Biological Tissue	Jeff Lichtman, Harvard University
10:00 – 11:00	New Advances in Clearing	Kwanghun Chung, MIT
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:30	Volume Imaging in Lipid-enriched Tissues	Zuhao Wu, Rockefeller University
11:30 – 12:00	Expert Discussion	Chung, Wu, Richardson
12:00 – 12:15	Zebrafish Embryo Clearing	Nathan Lord, Harvard University
12:15 – 12:30	Imaging Development of the Avian Vocal Organ	Evan Kingsley, Harvard University
12:30 – 1:30	LUNCH	

Hands on Session in Northwest Building Teaching Labs Room B1-133, 52 Oxford St., Cambridge

1:30 – 6:00 Hands-on sample clearing

Dinner at Nubar, 16 Garden St., Cambridge (in the Sheraton Commander Hotel)

7:00 Networking Dinner (RSVP to Doug)

Saturday October 28th, 2017

All lectures in Biological Labs Lecture Hall, RM 1080, 16 Divinity Ave., Cambridge

9:00 – 9:30	Imaging Cleared Tissue	Doug Richardson, Harvard University
9:30 – 10:30	Optical Sectioning Techniques	Sven Terclavers, Carl Zeiss Microscopy
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:30	Immunostaining	Doug Richardson, Harvard University

11:30 – 12:00 Discussion

12:00 – 1:00 LUNCH

All imaging experiments will take place in the HCBI, RM 2052, 16 Divinity Ave., Cambridge

1:00 – 1:30 Analysis & Discussion of cleared samples from Friday

1:30 – 5:30 Hands-on imaging (Rotations 1-4)

Dinner on your own

Sunday October 29th, 2017

All lectures in Biological Labs Lecture Hall, RM 1080, 16 Divinity Ave., Cambridge

9:00 – 9:30 Intro to data handling Doug Richardson, Harvard University

9:30 – 10:00 Investigating huge volumes at scale Chris Zugates, arivis

10:00 – 10:30 COFFEE BREAK

All imaging experiments will take place in the HCBI, RM 2052, 16 Divinity Ave., Cambridge

10:30 – 12:30 Hands-on Imaging (Rotations 5-6)

12:30 – 1:00 LUNCH

2:00 – 4:00 Free Imaging Time/Departure