

TENSS 2021 – Final schedule

DATE	DAY	TIME SLOT	MAIN RESPONSIBLE	GROUPS	VENUE	CONTENT
7/09/2021	0	19:00 – 20:00	Dinner			
		20:00 – 21:30	Florin, Raul, Adam			Introduction to the course and the people
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8/09/2021	1	08:30 – 09:30				Breakfast
		09:30 – 11:00	Florin Albeanu		Tent	Intro to Light
		11:00 – 11:15				Coffee break
		11:15 – 13:00	Fred Marbach		Tent	Basic optics (optical elements, image formation)
		13:00 – 14:00				Lunch
		14:00 – 16:30	Fred, Petr, Priyanka	ABCD	Tent	Basic optics lab : Lenses and image formation
		16:30 – 16:45				Coffee break

16:45 – 18:00	Priyanka		Tent	Optical resolution and Koehler illumination
18:00 – 19:00	Fred, Petr, Priyanka	ABCD	Tent	Basic optics lab: Bench-top koehler microscopes
19:00 – 20:00				Dinner
20:00 onwards	Fred, Petr, Priyanka	ABCD	Tent	Continue labs

9/09/2021	2	08:00 – 09:00			Morning run/swim
		09:00 – 10:00			Breakfast
		10:00 – 11:30	Fred, Petr, Priyanka	Tent	Basic optics recap
		11:30 – 11:45			Coffee break
		11:45 – 13:00	Fred Marbach	Tent	Fluorescence microscopy
		13:00 – 14:00			Lunch
		14:00 – 16:30	Fred, Petr, Priyanka	ABCD	Basic Optics lab: bench top fluorescence

16:30 – 16:45				Coffee break
16:45 – 18:00	Adam Kampff		Tent	Detecting signals: Noise sources and sensors
18:00 – 19:00	Fred, Petr, Priyanka	ABCD	Tent	Basic Optics lab: Noise and PSF measurements
19:00 – 20:00				Dinner
20:00 onwards	Fred, Petr, Priyanka	ABCD	Tent	Continue labs (image samples), make presentations

10/09/2021	3	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast
		10:00 – 11:30		Student presentations (10 + 5 minutes): Bench top microscopes
		11:30 – 11:45		Coffee break
		11:45 – 13:00	Petr Znamenskiy	Tent Widefield Imaging
		13:00 – 14:00		Lunch

14:00 – 15:00	Florin Albeanu		Tent	Intrinsic optical imaging
15:00 – 17:00				Free time
17:00 – 19:00	Adam Kampff		Tent	Scanning and confocal
19:00 – 20:00				Dinner
20:00 – 21:00	Florian Engert		Poolside	LASERs
20:00 onwards				Free time

11/09/2021	4	08:00 – 09:00			Morning run/swim	
		09:00 – 10:00			Breakfast	
		10:00 – 11:15	Ruben Portugues	Tent	Multiphoton Microscopy (concept) and difference w.r.t. confocal	
		11:15 – 11:30			Coffee break	
		11:30 – 13:00	Tomas, Iuliu, Nacho	ABCD	Tent	Programming I: Arduinos

13:00 – 14:00				Lunch
14:00 – 17:00	Fred, Priyanka Petr, Ruben	AB CD	Reception Tent	2p bench top: Walking the beam Scanning bench top: Image acquisition
17:00 – 17:30				Coffee break
17:30 – 19:00		AB	Tent	Student chalk talks (5 minutes each)
19:00 – 20:00				Dinner
20:00 – 23:00	Petr, Ruben Fred, Priyanka	AB CD	Tent Reception	Scanning bench top: Image acquisition 2p bench top: Walking the beam

12/09/2021	5	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast
		10:00 – 11:30	Benjamin Judkewitz	Tent Adaptive optics
		11:30 – 11:45		Coffee break

11:45 – 13:00	Tom Mrsic Flogel		Tent	Research Talk
13:00 – 14:00				Lunch
14:00 – 16:30	Fred, Priyanka Petr, Tomas	AB CD	Reception Tent	2p lab: Microscope design and constraints Programming II: Matlab
16:30 – 16:45				Coffee break
16:45 – 19:00	Fred, Priyanka Petr, Tomas	AB CD	Reception Tent	2p lab: build Intro to image analysis (use mock data)
19:00 – 20:00				Dinner
20:00 onwards	TAs	AB CD	Reception Tent	2p lab: build and image simple samples Image analysis: analyse data (mock, TENSS)

13/09/2021	6	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast
		10:00 – 11:30	Emilie Mace	Tent Functional Ultrasound Imaging

11:30 – 11:45				Coffee break
11:45 – 13:00	Georg Keller		Tent	Research Talk
13:00 – 14:00				Lunch
14:00 – 16:30	Petr, Tomas Fred, Priyanka	AB CD	Tent Reception	Programming II: Matlab 2p lab: Microscope design and constraints
16:30 – 16:45				Coffee break
16:45 – 19:00	Petr, Tomas Fred, Priyanka	AB CD	Tent Reception	Intro to image analysis (use mock data) 2p lab: build
19:00 – 20:00				Dinner
20:00 onwards	TAs	AB CD	Tent Reception	Image analysis: analyse data (mock, TENSS) 2p lab: build and image simple samples

14/09/2021	7	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast

10:00 – 11:30	Tobias Rose		Tent	Head mounted 2p
11:30 – 11:45				Coffee break
11:45 – 13:00	Tobias Rose		Tent	3 photon microscopy
13:00 – 14:00				Lunch
14:00 – 16:30	TAs	AB CD	Reception Tent	2p lab: In vivo 2p imaging (mice and fish) Make presentations
16:30 – 17:00				Coffee break
17:00 – 19:00	TAs	AB CD	Tent Reception	Make presentations 2p lab: In vivo 2p imaging (mice and fish)
19:00 – 20:00				Dinner
20:00 onwards		ABCD	Tent	Make presentations

15/09/2021

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08:00 – 09:00

Morning run/swim

09:00 – 10:00

Breakfast

10:00 – 11:00				Free time
11:00 – 13:00		ABCD	Tent	Student presentations (10 + 5 minutes): 2p
13:00 – 14:00				Lunch
14:00 onwards				Free time

16/09/2021	9	08:00 – 09:00			Morning run/swim	
		09:00 – 10:00			Breakfast	
		10:00 – 11:30	Nacho Sanguinetti		Tent	Natural behaviors
		11:30 – 11:45				Coffee break
		11:45 – 13:00	Balazs Hangya	ABCD	Tent	Controlled behaviors /Behavioral control
		13:00 – 14:00				Lunch
		14:00 – 16:30	TAs	ABCD	tent	Intro to behavior setups (Bonsai and Machine vision)

16:30 – 16:45				Coffee break
16:45 – 19:00	Nacho, Mateusz	ABCD	LH	Bonsai: Piezos, Servos
19:00 – 20:00				Dinner
20:00 – 20:30	TAs		reception	Clicker training
20:30 onwards	Nacho, Antonin, Matias		Tent	Assemble ephys and behavior setups

17/09/2021	10	08:00 – 09:00			Morning run/swim
		09:00 – 10:00			Breakfast
		10:30 – 11:30	Jakob	LH	Intro to chronic ephys
		11:30 – 11:45			Coffee break
		11:45 – 13:00	Jakob/Antonin	ABCD	Ephys bench top: Amplifiers
		13:00 – 14:00			Lunch

14:00 – 15:30	Jakob/Antonin		LH	Ephys bench top: Amplifiers
15:30 – 16:00				Coffee break
16:00 – 17:30	Fede Carnevale		LH	AI and Machine learning
18:00 – 19:00	Jakob/Antonin		LH	Use your amplifier (insect)
19:00 – 20:00				Dinner
20:00 – 21:15	Jakob/Antonin	ABCD	Tent	Demo: recording a brain

18/09/2021	11	08:00 – 09:00				Morning run/swim
		09:00 – 10:00				Breakfast
		10:00 – 11:30	TAs	ABCD	pool	Recap: bench top amplifiers
		11:30 – 11:45				Coffee break
		11:45 – 13:00	Jakob	ABCD	LH	Tetrode drives: free moving electrophysiology

13:00 – 14:00				Lunch
14:00 – 15:30	Antonin		LH	Where does the extracellular signal come from?
15:30 – 16:00				Coffee break
16:00 – 19:00	Jakob	ABCD	LH	Ephys data analysis tutorial / spike sorting
19:00 – 20:00				Dinner
20:00 – 22:30	TAs	AB/CD	tent	Assemble ephys setup

19/09/2021	12	08:00 – 09:00			Morning run/swim
		09:00 – 10:00			Breakfast
		10:00 – 11:30	Daniela Vallentin	Tent	Research Talk
		11:30 – 11:45			Coffee break
		11:45 – 13:00	Vlad Vasile Moca	Tent	Data analysis: Fourier, Filtering

13:00 – 14:00				Lunch
14:00 – 16:00	TAs	ABCD	Tent	Guided analysis tutorial/data
16:00 – 16:30				Coffee break
16:30 – 18:30	TAs	ABCD	Tent	Guided analysis tutorial/data
16:30 – 18:30				Fede's transformer
19:00 – 20:00				Dinner + Brainstorming
18:30-19:00				Brainstorming
20:00 onwards	Nacho	ABCD	LH	Start project! / making drive

20/09/2021	13	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast
		10:00 – 11:30	Matias	LH PCA
		11:30 – 11:45		Coffee break

11:45 – 13:00	TAs	ABCD	Tent	Finish project + data analysis
13:00 – 14:00				Lunch
14:00 – 16:30	TAs	ABCD	Tent	Data analysis
16:30 – 16:45				Coffee break
16:45 – 19:00	TAs	ABCD	Tent	Data analysis and make presentations
19:00 – 20:00				Dinner
20:00 onwards				Make presentations

21/09/2021	14	08:00 – 09:00		Morning run/swim
		09:00 – 10:00		Breakfast
		10:00 – 11:30	ABCD	Student presentations - behavior and physiology
		11:30 onwards		Feedback, Pack up (and free time)

20:30 –
onwards

Dinner and Party
