PROGRAM



09:00

ON-PLACE

https://course.img.cas.cz/slm/

Day 1TUESDAY, June 7, 2022

09:30 Resolution in light microscopy; high-res. confocal microscope.

10:30 Principles of microscopy image deconvolution.

11:15 High resolution computational methods.

13:00 Lightning

13:30 SRRF Stream

10:30 Resolution in light microscopy; high-res. confocal microscope.

10:40 Novotný

Martin Čapek

Michaela Blažíková

Pragolab/Leica

OptiXs/Andor

Ivan Novotný

TBA

Introductory word, practical information & course organization.

CZECH BIOIMAGING

June 7-9, 2021

Institute of Molecular Genetics of the

Czech Academy of Sciences Prague | Czech Republic









Seeing beyond











11:15 <i>lunch</i>	High resolution computational methods.
13:00	Lightning
13:30	SRRF Stream
14:00	Practical sessions (3 parallel groups): HiRes Confocal(group1) Lightning(group2) SRRF(group3)
coffee break	
16:00	Practical sessions (3 parallel groups): HiRes Confocal(group2) Lightning(group3) SRRF(group1)
coffee break	
18:00	Practical sessions (3 parallel groups): HiRes Confocal(group3) Lightning(group1) SRRF(group2)
20:00	WrapUp, discussion and sendwich dinner

09:00 2x scientific lecture.

Day 2WEDNESDAY, June 8, 2022

10:00 Srtuctured illumination microscopy - SIM. Martin Čapek coffee break
 10:45 SIM and confocal microscope - similarities and differences. Ivan Novotný
 11:15 Lattice SIM ZEISS
 11:45 Advanced stable Fluoro-Dyes for SR microscopy
 11:45 Sven Biolabs

13:00 Practical sessions (3 parallel groups):

SIM(group1) | LatticeSIM(group2) | SIM reconstruction(group3)

coffee break 15:00

Practical sessions (3 parallel groups):

SIM(group2) | LatticeSIM(group3) | SIM reconstruction(group1)

coffee break

17:00 Practical sessions (3 parallel groups):

SIM(group3) | LatticeSIM(group1) | SIM reconstruction(group2)

20:00 Super-resolved SOCIAL EVENT

Day 3THURSDAY, June. 9, 2022

09:00 2x short scientific lecture. TBA

09:30 Stimulated emission depletion - STED microscopy. Ivan Novotný

coffee break

10:30 Single molecule localization microscopy - SMLM. Michaela Blažíková

11:30 TBA, (Solutions for localization microscopy)

lunch 12:00

13:00 Practic

Practical sessions (2 parallel groups):

STED(group1) | dSTORM/3D PALM(group2)

coffee break

ON-PLACE

15:30 Practical sessions (2 parallel groups):

Conclusion & Farewell dinner

STED(group1) | dSTORM/3D PALM(group2)

coffee break

19:00

18:00 TBA, (Consumable equipment for advanced microscopy) KRD

18:30 Take-home message from SR light microscopy Participants

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