## SUPER-RESOLUTION 2022 PROGRAM



09:00

09:30

10:30

11:15 lunch 13:00

13:30

14:00

16:00

18:00

00.00

coffee break

coffee break

coffee break

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

## Day 1TUESDAY, June 7, 2022

Lightning

SRRF Stream

June 7-9, 2021 Institute of Molecular Genetics of the **Czech Academy of Sciences** Prague | Czech Republic







blobollap
Leica
MICROSYSTEMS

ZEINS

Authorized Distributor

Seeing beyond







**HPST** 

20:00 WrapUp, discussion ... and sendwich dinner

Introductory word, practical information & course organization.

Resolution in light microscopy; high-res. confocal microscope.

HiRes Confocal(group1) | Lightning(group2) | SRRF(group3)

HiRes Confocal(group2) | Lightning(group3) | SRRF(group1)

HiRes Confocal(group3) | Lightning(group1) | SRRF(group2)

Principles of microscopy image deconvolution.

High resolution computational methods.

Practical sessions (3 parallel groups):

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## Day 2WEDNESDAY, June 8, 2022

2x scientific locture

10:00Srtuctured illumination microscopy - SIM.Martin Čapekcoffee break10:45SIM and confocal microscope - similarities and differences.Ivan Novotný11:15Lattice SIMZEISS	
<b>5</b> 10:45 SIM and confocal microscope - similarities and differences. <i>Ivan Novotný</i>	
<b>H</b> 11:15Lattice SIMZEISS	
11:45 Advanced stable Fluoro-Dyes for SR microscopy Sven Biolabs	
lunch 12:15	
13:00 Practical sessions (3 parallel groups):	
SIM(group1)   LatticeSIM(group2)   SIM reconstruction(group3)	
<i>coffee break</i> 15:00 Practical sessions (3 parallel groups):	
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)	

Super-resolved SOCIAL EVENT 20:00



## 2x short scientific lecture.

09:30

09:00

Stimulated emission depletion - STED microscopy. coffee break

10:30 Single molecule localization microscopy - SMLM. 11:30 TBA, (Solutions for localization microscopy) lunch 12:00

Practical sessions (2 parallel groups): 13:00 STED(group1) | dSTORM/3D PALM(group2) coffee break

15:30 Practical sessions (2 parallel groups): STED(group1) | dSTORM/3D PALM(group2) coffee break

TBA, (Consumable equipment for advanced microscopy) 18:00 Take-home message from SR light microscopy 18:30

KRD **Participants** 

Ivan Novotný

TBA

Ivan Novotný

Ivan Novotný

Martin Čapek

Pragolab/Leica

OptiXs/Andor

TRA

Michaela Blažíková

Michaela Blažíková NIKON



OptiXs



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