## PROGRAM

### **IMAGE OF LIFE 2022**

#### **TUESDAY, Dec 6, 2022**

#### **Theoretical part**

09:00-09:15 Introductory word and practical organization notes. *Ivan Novotny* 09:15-09:45 Fluorescence microscopy and optical sectioning. *Ivan Novotný* 09:45-10:15 Spinning disc microscopy. *Michaela Blazikova* coffee break 10:30-11:00 Lightsheet. *Jiri Cerny* 11:00-11:30 2-Photon microscopy. *Daniel Hadraba* lunch **Practical part:**12:30-20:00 (3 parallel groups, 3x 2.5h) 2-Photon confocal microscope. *Daniel Hadraba* Confocal scanning & spinning disc. *Ivan Novotný* | *Jan Valecka* Lightsheet. *Jiri Cerny* 

coffee break and sendwich dinner are included

#### WEDNESDAY, Dec 7, 2022

#### **Theoretical part**

09:00-09:30 Superresolution & live cell. *Ivan Novotný* 09:30-10:00 Quantitative phase imaging. *Martin Čapek* coffee break 5x scientific flash talks covering the field:

TBA

11:30-12:00 Photo-kinetics measurement in live cell. *Michaela Blazikova* lunch **Practical part:**13:00-19:00 (3 parallel groups, 3x 2h) Super-resolution room (STED, SIM) *Ivan Novotný* Photo-kinetics and FLIM applications. *Michaela Blazikova* Quantitative phase imaging - qPI + TIRF. *Martin Čapek + Jan Valecka* coffee break is included SOCIAL EVENT

#### THURSDAY, Dec 8, 2022

#### **Theoretical part I**

09:00-10:00 Image Deconvolution *Ivan Novotny* 09:30-10:00 3D visualization *Jan Valecka* 10:00-11:35 Presentations of partners (6x 15 min talk + 1 short talk) **+** coffee 11:35-12:10 High resolution computational methods in LM. *Michaela Blazikova* lunch **Practical part:**13:00-17:30 (3 parallel groups, 3x 1.5h)



# LCI 2022



NIKON spinning disk Crest Optics X-light V3 with DeepSIM. NIKON application specialist Leica STELLARIS 8 - LasX Lightenning. Ivan Novotný Andor Dragonfly SRRF-tream2. Michaela Blazikova Ik is included

**Theoretical part II** 

17:30-18:00 Discussion/Conclusions/Final evaluation + pizza

The course is organized by the **Institute of Molecular Genetics of the Czech Academy of Sciences** in the framework of the **Czech-Biolmaging** research infrastructure supported by **Ministry of education youth and sports (LM2018129)** 





**HPST** 



We make it visible.