

# Holographic and Tomographic Label Free Microscopy Workshop

19<sup>th</sup> - 20<sup>th</sup> of September

HTPS s.r.o. presents a holo-tomographic microscope 3D Cell Explorer-fluo from Nanolive. A revolutionary Holo-tomographic Microscope to look instantly inside living cells in 3D without staining!



Date | September 19 – 20, 2018

Location | Ústav experimentální botaniky, v.v.i., Rozvojová 263, 165 02 Praha 6 – Lysolaje

Presentation | čítárna B1, Hands-On – microscopic laboratory in B1, ground floor

## Programme

September 19th , 2018 (12:30 - 16:00)

12:30 – 13:00 Registration for hand-on session

13:00 – 13:30 Principles of tomographic microscopy (Michaela Pluskalova, HPST,s.r.o.)

14:00 – 16:00 HANDS ON session (registration needed, on-site registration also possible, bring your own samples)

September 20th , 2018 (9:00 - 16:00)

Free HANDS-ON slots, upon reservation (write to [michaela.pluskalova@hpst.cz](mailto:michaela.pluskalova@hpst.cz))

## Nanolive technology ([www.nanolive.ch](http://www.nanolive.ch))

- three-dimensional high spatial-temporal resolution imaging (x, y:200nm; z:400nm; t:1.7sec) of transparent specimens
- sample labeling not required
- post processing digital staining for 3D reconstruction
- 3 Fluorescence channels to combine tomographic data with fluorescence markers

## Recommended sample preparation

- cells grown on glass-bottom petri dish (3.5 mm) or fixed on glass coverslips
- use a water-based medium (e.g. PBS, culture medium etc.) - no dry samples
- tissue sections (5-10 microns), remove the OCT or paraffin before mounting the slide

**For hands-on reservation needed.**

You can register or write for more information to Michaela Pluskalová, HPST, s.r.o

E-mail: [michaela.pluskalova@hpst.cz](mailto:michaela.pluskalova@hpst.cz)

