

IMAGING DAY IN PRAGUE

FEMTONICS in cooperation with TESCAN would like to invite you to participate at the Imaging Day in Prague.

Live cell imaging methods have become a key methods for better understanding of many cellular processes. Visualization of dynamic changes can bring deep insight into many cellular processes, such as cellular death, cancer development, and neuronal activity.

During this meeting, TESCAN and FEMTONICS, will demonstrate recent advanced and development of two rapidly emerging microscopic techniques for biomedical research - multiphoton microscopy and digital holography.

TESCAN will introduce the multimodal holographic microscope Q-PHASE, a unique instrument for quantitative phase imaging based on patented technology of Coherence-controlled holographic microscopy. This technique enables observation of living cells in vitro even in scattering media, monitoring cell cycle and reactions of cells to specific treatments or distinguishing different types of cell deaths as well as analyzing cell growth, dynamics and morphological changes in time.

FEMTONICS will present different application in 2-photon technology, 2 of them by invited speakers. Beside scientific presentation we will talk about advanced and basic features and functions of Femtonics 2-photon microscopes, as well as new development on this field.

The workshop will be held on:

February 18th 2016
at Complex of Biomedical Institutes ar Krc., Prague.

10⁰⁰ - 12¹⁰ FEMTONICS presentations

- 10⁰⁰ - 10¹⁵ Femtonics Introductions and Product Overview
Gabor Galiba, Femtonics Ltd.
- 10¹⁵ - 10⁵⁵ Invited Speaker Dr. István Krizbai from the Hungarian Academy of Sciences at the Laboratory of Molecular Neurobiology
Title: **The neurovascular unit and formation of brain metastases**
- 10⁵⁵ - 11³⁰ Coffee break
- 11³⁰ - 12¹⁰ Invited Speaker Dr. Marko Popovic from the Netherlands Institute for Neuroscience
Title: **Voltage imaging in axons and spines – a path towards the measurement of the input-output transform function of a neuron**
- 12¹⁰ - 13⁰⁰ Lunch

13⁰⁰ - 14²⁰ TESCAN presentations

- 13⁰⁰ - 13⁴⁰ **Q-PHASE: a unique tool for live-cell imaging** (Aneta Křížová)
- 13⁴⁰ - 14²⁰ **Spotlight on necrobiology: Aggressive cancer behavior revealed by QPI**
(Jan Balvan)