

**COST Workgroup Meeting WG3 – Focus: Microscope Based Techniques
Institute of Molecular Genetics in Prague, Czech Republic
August 31 – September 1, 2018**

Organizer: Klara Weipoltshammer

WG3 “New methodologies to study mechanobiology of cells and tissues” bridges the gap between continually developing technical equipment and methodologies and the biological applications. Thus, the characteristics of all WG3 Activities is that part of the Activity is dedicated to highlighting a technical aspect, encouraging discussion and facilitating the use of the respective technique.

On Aug 31/Sept 1 2018 the “COST EuroCellNet WorkGroup 3 meeting - Focus on advanced microscopy-based techniques” took place in Prague. The Activity consisted of two parts:

1) Aug 31 was reserved to the topic advanced high-resolution microscopy based techniques.

Morning session: lectures (open to all colleagues interested) on different technical approaches, their physical background, image processing and reconstruction of data. Presenters: Christoph Cremer, Institute of Molecular Biology, Mainz, Germany; Ales Benda, BIOCEV, Charles University, Prague; Ivan Novotny, Martin Capek and Michaela Efenberkova, Light Microscopy Core Facility IMG, Prague.

In the afternoon, the Microscopy Core Facility of the IMG organized hands on tutorials for a selected group of scientists (letter of intention required, COST criteria ITC and ECI taken into account): SIM, STED, image processing (demo version of the Huygens Deconvolution Software)

Several EuroCellNet WG members showed interest in further collaboration with the Core Facility, some of them have already established contact.

2) On Sept 1, WG3 participants reported on progress of their COST based collaborations. WG3 participants made use of several tools of the Action (STSMs, ITC).