

# LIFE SCIENCES

## seminar series

### Pavel Tomančák

Max Planck Institute of Molecular Cell Biology,  
Germany

## Patterns of gene expression in development and evolution

**March 12, 2015**

**Thursday, 15:00 – 16:00**

Seminar room 114, pavilion A11  
University campus Bohunice

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Dr Tomancak is an expert in the fields of developmental biology, imaging and bioinformatics. He is particularly specialising in studying the patterns of gene expression during animal development. For imaging the patterns he employs the emerging and powerful light sheet microscopy technology. The lab is known for the OpenSPIM set-up and do-it-yourself light sheet microscope developed under open access principles. Since light sheet microscopy places significant demands on image processing and analysis, the Tomancak group has over the years developed several state-of-the-art algorithms and software tools for handling and processing the light sheet microscopy data. The software is collected under the broadly used Fiji platform for biological image analysis. The purpose of the stay is to deliver a lecture. The follow up discussions will likely focus on integration of open access technologies developed by the Tomancak lab at CEITEC. One possible outcome is the establishment of OpenSPIM in Brno.

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