

# For 2<sup>nd</sup> – 6<sup>th</sup> year students

First Faculty of Medicine, Charles University in Prague  
**INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY**

opens in the academic year 2014/2015 as a compulsory eligible subject:

## Current Methods in Cell Biology

(one-week practical course, code B81289)

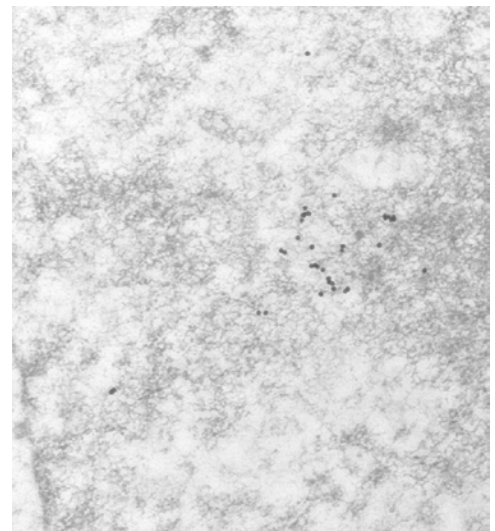
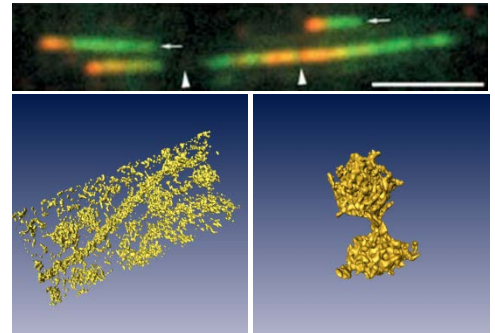
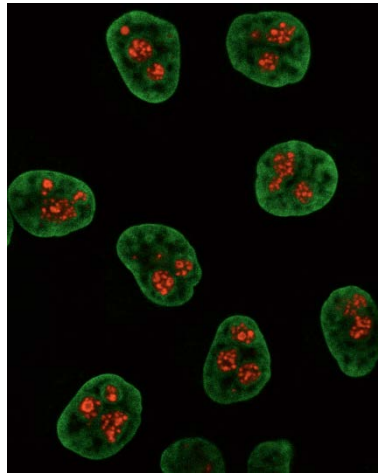
June 15<sup>th</sup> – 19<sup>th</sup> 2015

The course is intended first of all for the foreign students.  
Teaching will take place in groups (in English) in the form of a practical training.

### Subject matter:

**Basic methods of cell biology  
with special emphasis on  
microscopic techniques:**

- Cell cultivation
- Model organisms
- Fluorescent microscopy
- Confocal microscopy
- Immunocytochemical detection
- *In situ* hybridization
- Mammalian cell transfection
- GFP technology
- Mitotic spread preparation
- Preparation of samples for immuno-electron microscopy
- Modern approaches for 3D reconstruction of cells
- Electron tomography
- Molecular biological and biochemical methods: isolation of nucleic acids, PCR



**Interested in what you see here? Join the course!**

We encourage you to cooperate with us in the preparation of the course. You have the possibility to propose scientific and methodical cell biology topics, in which you are interested, which you would like to discuss or about which you would like to learn more in the frame of this course. See more on our webpage: <http://lge.lf1.cuni.cz/vyuka/currentmethods.html>

Send your applications, suggestions or questions to: [smelc@lf1.cuni.cz](mailto:smelc@lf1.cuni.cz) or call **2 2496 8000**.