

***Graduate Program in Molecular Cell Biology and Oncology:
MCBO Methods Courses***

Special Lecture/Course in: 041520, Live cell imaging and superresolution microscopy

Lecturer: Stephan Geley, Martin Offterdinger

Number:

Type: VO VU ECTS: 1,5

Character:

Time/Date: 11.5.- 15.5.

Location: CCB 2nd floor, Biooptics core facility

Limited number of places YES, number of places 6, registration necessary YES

For registration or questions please contact stephan.geley@i-med.ac.at;
martin.offterdinger@i-med.ac.at

Aim:

Introduction to and demonstration of live cell imaging and superresolution microscopy

Description/contents:

<p>We will perform experiments to demonstrate the versatility of live cell imaging experiments with a focus on temporal and spatial resolution and its limits in light microscopy. The course will be hands-on so that every student can become familiar with live cell imaging experiments on different types of microscopes. The course will include:</p>

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| <ul style="list-style-type: none">- Wide-field microscope- Zeiss Airy-Scan confocal microscope- Leica Sp8 gSTED 3D superresolution microscope- Introduction to Huygens deconvolution software- Short introduction to MATLAB and ImageJ |
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Additional:

<p>Students are encouraged to submit proposals for imaging projects relevant to their on PhD work. If submitted well in time (1 month before start of the course) we will try to incorporate suitable experiments during this course.</p>
