

Privat Docent course on imaging

Contributed by Yannick KREMPP
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2018 CIF COURSES

Cours de privat docent & Cellular Imaging Facility (CIF)

Dr Jean-Yves CHATTON

Introduction to fluorescence imaging for the analysis of living cells

Place: Petit Auditoire de l'Ecole de Médecine, rue du Bugnon 9 (1er étage)

Schedule: Winter Semester – Tuesdays (mostly) 12:15 – 14:00

9 January 2018 : Basics of transmitted light and fluorescence microscopy

16 January 2018 : Confocal microscopy

23 January 2018 : Modes of image formation, acquisition, signal sampling

29(*)January 2018 : Attention ! The 29th is a MONDAY

Dynamic recording of cellular functions by fluorescence imaging.

Intracellular ion imaging and cellular signaling.

Problems related to imaging of living cells

6 February 2018 : Other optical applications (proposed topics)

Fluorescence recovery after photobleaching (FRAP) , photoactivation-optogenetics, multiphoton microscopy, fluorescence resonance energy transfer (FRET), optical contrasting methods (DIC, phase, ...), Super-resolution microscopy.

Remarks:

- lectures will be given in English.

- in parallel with theoretical lectures, demonstrations will be proposed on the confocal microscopes of the Cellular Imaging Facility (details and registration on site).

- gives right to ONE credit for students of doctoral schools (FBM and neuroscience)

Admission to the course is free and open to anyone interested

(Please register to jean-yves.chatton@unil.ch -- on site registration possible