

# Privat Docent course on imaging 2015

Contributed by Yannick KREMPP  
Tuesday, 26 August 2014

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 &ndash; Tuesdays 12:15 &ndash; 14:00

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6 January 2015 : Basics of transmitted light and fluorescence microscopy

13 January 2015 : Confocal microscopy

20 January 2015 : Modes of image formation, acquisition, signal sampling

27 January 2015 : Dynamic recording of cellular functions by fluorescence imaging.

Intracellular ion imaging and cellular signaling.

Problems related to imaging of living cells

3 February 2015 : Other optical applications (proposed topics):

Fluorescence recovery after photobleaching (FRAP), UV flash microscopy, fluorescence resonance energy transfer (FRET), resolution microscopy      photolysis, multiphoton microscopy, evanescent wave optical contrasting methods (phase contrast, DIC), super-

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](mailto:jean-yves.chatton@unil.ch) -- on site registration possible)