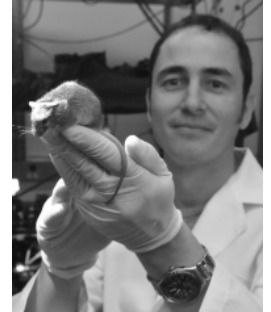


**Graduate Schools
Infection Immunity and Cancer, UniGe & UniL: CUSO
Biology & Medicine, CMU**

Seminars in Microbiology

Monday, 24th November, 2014
Salle de séminaire 7172, CMU
11:30 – 12:30



Pr. Daniel Huber

Neural circuits and behaviour Lab
Département des Neurosciences Fondamentales, CMU

**Optical dissection of cortical circuits
underlying goal directed action**

Daniel Huber will give an overview of how the latest optical tools, such as two-photon imaging, are used with genetically encoded calcium indicators and optogenetics in behaving mice. The combination of these techniques allows probing of the cortical circuits involved in controlling goal directed action and forming novel sensory-motor associations.

Selected recent publications:

- O'Connor DH, Hires SA, Guo ZV, Li N, Yu J, Sun Q-Q, Huber D, Svoboda K. [Neural coding during active somatosensation revealed using illusory touch](#). Nature Neuroscience 2013;16(7):958-965.
- Huber D, Gutnisky DA, Peron S, O'Connor DH, Wiegert JS, Tian L, Oertner TG, Looger LL, et al. [Multiple dynamic representations in the motor cortex during sensorimotor learning](#). Nature 2012;484(7395):473-478.

Sandwiches will be offered after the seminar
Contact: Stéphanie Anchisi & Christina Mueller

CEBUG Centre d'Excellence
de Bactériologie de l'Université de Genève

Speaker chosen by the MIMOL PhD students