Stem cells in Neuroscience

Organizer: Nicolas Toni

1 ECTS

PROGRAM

- Introduction on stem cells
- Adult Neurogenesis (Mechanisms, role in learning, synaptic integration)
- Molecular control of proliferation, migration, differentiation
- Neuronal Stem cells lesion-induced activity
- Stem cells as a research tool or a disease model
- Cell therapy – Transplantation

SCHEDULE and LOCATION

The course takes place in the 2 separate locations, i.e. in Lausanne and in Geneva:

- **Mon, Thu, Fri:** Department of Fundamental Neuroscience at the University of Lausanne (UNIL-DNF, Bugnon 9, Lausanne, room APP, ground floor on the left side of the entrance)
  → from Lausanne train station, take the subway M2 direction "Croisettes/Sallaz" and get off at "Place de l'Ours". Cross the road and take the Bugnon's Street. The DNF will be 100 meters up the street on your left.

- **Tue:** University Hospital Geneva (HUG; Rue Gabrielle-Perret-Gentil 4, Geneva), seminar room E3 (hospital main entrance, floor P)
  → from Geneva main station, take bus # 1 or 5 and get off at “Hopital”

REGISTRATION

Local students please send an e-mail with the course name as subject and your supervisor in copy to: indscourses@gmail.com before November 7, 2014.
**SCHEDULE**

**Monday, Nov 24**  
Lausanne (DNF, Bugnon 9)  
8h15-10h Nicolas Toni: “Adult neurogenesis”  
10h15-12h Jean-Francois Brunet: “Introduction on stem cells” and “Transplantation cell therapy”  
13h15-15h Roman Chrast: “Molecular control of glial differentiation”

**Tuesday, Nov 25**  
Geneva (HUG)  
8h15-10h Denis Jabaudon: “Molecular control of cortical neuron differentiation”  
10h15-12h Alan Carleton et Joszef Kiss: “Discussion of article”

**Wednesday, Nov 26**  
Individual study time for students

**Thursday, Nov 27**  
Lausanne (DNF, Bugnon 9)  
8-10h Christian Sachse: “Philosophical perspectives on stem cell research”  
10-12h Luc Stoppini: “Embryonic stem cells as a research tool”

**Friday, Nov 28**  
Lausanne (DNF, Bugnon 9)  
Nicolas Toni: Exam (oral, format depends on the number of participants)