

UCL Neuroscience – ZNZ Collaboration

Program of 2nd Joint Workshop

Zurich, Sept. 22 – 23, 2014

- Monday, September 22** **Lecture Hall, University Hospital Balgrist, Forchstrasse 340**
8008 Zurich
- 13:00 **Welcome**
Klaus Grätz, Dean Medical Faculty, UZH
Alan Thompson, Dean of the Faculty of Brain Sciences, UCL
- 13:10 **Introduction of UCL Neuroscience and ZNZ**
Trevor Smart and Jean-Marc Fritschy
- 13:30 – 14:20 **Session 1: Synaptic transmission**
Matthew Gold (Spatial decoding of calcium signals in the postsynaptic density)
Florian Stengel (Using mass spectrometry and integrated modelling to understand the dynamical architecture of the postsynaptic density)
- 14:20 – 15:35 **Session 2: Emotion recognition and processing**
Dominik Bach (Theta oscillations in human approach/avoidance conflict)
James Kilner (Is there a role of the motor system in emotion recognition?)
Nicole Wenderoth (Automatic imitation and its importance for emotion recognition via action understanding)
- 15:35 – 16:05 Coffee break
- 16:05 – 17:20 **Session 3: Computation and translation**
Klaas Stephan (Translational Neuromodeling)
Richard Hahnloser (Neurotechnology)
Neil Burgess (The neural bases of spatial and emotional memory)
- 17:20 – 18:00 **Translational neuroscience in Amsterdam: what is it good for?**
Arjen Brussaard, Director Neuroscience Campus Amsterdam

Tuesday, September 23 Lecture Hall, University Hospital Balgrist

- 08:30 – 09:20 **Session 4: Imaging methodologies**
Felix Scholkmann (Measuring and modelling functional brain activity in preterm neonates using optical neuroimaging)
Ruth Tuura (Improving imaging for preoperative neurosurgical targeting and intraoperative image guidance)
- 09:20 – 10:10 **Session 5: Spinal cord injury rehabilitation, part I**
Patrick Freund (Embodied neurology)
Nick Weiskopf (Towards in-vivo histology using MRI)
- 10:10 – 10:30 Coffee break
- 10:30 – 11:20 **Session 6: Spinal cord injury rehabilitation, part II**
Mohammadi Siawoosh (Addressing challenges in spinal cord DTI)
John Ashburner (Progress on tissue probability map construction)
- 11:20 – 12:35 **Session 7: MR applications in neuro-urology**
Joint presentation by Jalesh Panicker, Claudia Wheeler-Kingshott
Thomas Kessler and Martina Liechti
- 12:35– 13:00 Lunch buffet
- 13:00 – 14:40 **Session 8: Investigator-initiated clinical trials in SCI and MS**
Martin Schwab (Repair of CNS injuries by enhancement of nerve fiber growth and new circuit formation)
Armin Curt
Olga Ciccarelli
Roland Martin (Examples from MS research)
- 14:40 **General discussion, wrap-up, next steps**
Trevor Smart and Jean-Marc Fritschy
- 15:10 End of workshop