

SPP-2041 Kick-Off Meeting Agenda

May 2-3, 2018

Frankfurt Institute for Advanced Studies
Ruth-Moufang-Str. 1, 60438 Frankfurt am Main

Wednesday, May 2:

12:30 – 13:00 Get-together, light lunch (sandwiches)

13:00 – 14:00 Keynote lecture: **Henry Kennedy**, Université de Lyon

14:00 – 14:20 SPP-2041 Overview: Jochen Triesch

14:20 – 16:20 **Session I: Human Connectomes**

14:20 – 14:40 Integrating multi-scale connectivity and brain architecture in a large-scale computational model of the human cerebral cortex

14:40 – 15:00 Human microstructural connectomics: Computational modelling and validation with histology and CLARITY (MICO-MRI)

15:00 – 15:30 Coffee Break

15:30 – 16:50 **Session II: Connectomes Large and Small**

15:30 – 15:50 Multi-scale analysis and computational modeling of intrinsic coupling modes in the ferret brain

15:50 – 16:10 Computational connectomics of the cockroach circadian clock

16:10 – 16:30 Predicting Anatomically Realistic Cortical Connectomes using Statistical Inference

16:30 – 16:50 The dynamic connectome underlying language in the brain

16:50 – 17:10 Coffee and Posters

18:00 – 19:00 Keynote lecture: **Moritz Helmstaedter**, MPI for Brain Research, Frankfurt

19:30 Dinner at restaurant „Zum Lahmen Esel“ (Krautgartenweg 1, 60439 Frankfurt, within walking distance from venue and hotel)

Thursday, May 3:

09:00 – 10:20 **Session III: Connectomes of Sensory Systems**

09:00 – 09:20 The dynamic connectome: keeping the balance

09:20 – 09:40 Inference of synaptic connectivity from contrast-invariant orientation tuning in the early visual system: Computational network analyses and experimental measurements

09:40 – 10:00 Disentangling the computational modules of the inner retina

10:00 – 10:20 Functional connectomics of the binocular optic flow processing circuit in zebrafish

10:20 – 11:00 Coffee Break

11:00 – 12:00 **Session IV: Connectomes and Disease**

11:00 – 11:20 High resolution connectivity analysis of the dorsal mouse gyrus dentatus in health and epilepsy

11:20 – 11:40 Connectome based modelling to reveal multi-scale mechanisms in stroke

11:40 – 12:00 Clinical Connectomics: A network approach to deep brain stimulation

12:00 – 13:00 Light lunch (soup and sandwiches), Departure

Poster Presentations:

Lastname	Firstname	Title
Ashtarayeh	Mohammad	The human optic chiasma at ultra-high field
Dinkelbach	Helge Ülo	ANNarchy: a simulator for bio-inspired neural networks
Hoffmann	Felix	Modelling synaptic lifetime distributions with Kesten processes
Kraynyukova	Nataliya	Inferring connectivity profiles from contrast invariant network activity
Mohammadi	Siawoosh	The human optic chiasma at ultra-high field
Morawski	Markus	3D microscopy with CLARITY on human brain tissue: a tool for informing and validating MRI-based histology
Stengl	Monika	How does the cockroach circadian clock tick?
Strauß	Sarah	Modeling Direction Selectivity in Starburst Amacrine Cells
Van Albada	Sacha	Resting-state activity in a spiking multi-area model of macaque visual cortex

Meeting Logistics

SPP-2041 Coordination Office

Mrs. Susanne Steiner, phone: 069 798 47502; email: spp2041@fias.uni-frankfurt.de

Venue

Frankfurt Institute for Advanced Studies (FIAS), Ruth-Moufang-Str. 1, 60438 Frankfurt

Internet Access

SSID: FIAS Password: <will be provided at reception desk>

Hotel

„Relaxa Hotel“: Lurgiallee 2, 60439 Frankfurt, phone: 069 957780

Restaurant

„Zum Lahmen Esel“: Krautgartenweg 1, 60439 Frankfurt, phone: 069 573974

Taxi Cab

call: 069 230033

