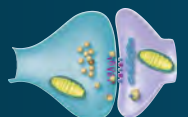




Retreat

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Programm
02.09.-04.09.



10:15	Meeting Point MPI Nat, Citycampus
12:00–12:30	Arrival / Welcome coffee / Check-In
12:50	Opening by Silvio Rizzoli

1. Session Paloma Huguet

13:05	A01 Cooper	Frederieke Moschref "STEM tomography of large synaptic volumes" Ines Hoja Garcia Plaza "Ultrastructural and molecular correlates of short-term plasticity"
13:35	A02 Salditt	Charlotte Neuhaus / Tim Salditt "Structure of single vesicles and vesicle pools probed by X-ray diffraction"
14:00	A03 Rizzoli	Svilen Georgiev "Dynamic transcellular molecular exchange: a novel view on extracellular matrix remodeling"
14:25	A04 Wichmann	Julius Bahr "Ultrastructural changes at a central auditory synapse"
14:50	A05 Jakobs	Frederike Maaß "Investigation of nucleoids in neuronal mitochondria using super-resolution microscopy"

15:15	Coffee Break 30min
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2. Session Metin Özdemir

15:45	A06 Rehling	Peter Rehling "Monitoring mitochondrial translation in cells"
16:10	A07 d'Este	Victor Macarron Palacios "Quantitative study of postsynaptic structures at the nanoscale"
16:30	A08/A10 Urlaub	Yanlong Ji "Quantitative site-specific N-glycoproteomics of brain synaptosomes"
16:55	A09 Tirard	Zehra Vural "Functional analysis of ubiquitin-like modifiers substrates in neuronal synapses"
17:20	A11 Lipstein	Sun Siqi "Elucidating the Nanoarchitecture of the Presynaptic proteome"

3. Session Alireza Soleimani

17:45	Keynote lecture	Daniel Choquet (University of Bordeaux) "Interplay between glutamatergic synapse dynamic nano-organization, function, plasticity and memory mechanisms"
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19:15	Dinner
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4. Session Andreas Major

- 08:30 A12 Busnadiego **Arsen Petrovic**
"Insights from cryo-electron tomography studies of native hippocampal synapses"
- 08:55 B02 Köster **Tiago Mimoso / Sofiiia Reshetniak**
"Interaction of Synaptic Vesicles and Microtubules"
- 09:20 B04 Steinem **Lara Dohmen**
"Building an in vitro model for GABAA-Receptor Organization"
- 09:45 B05 Moser **Maria Groshkova**
"Investigation of the putative neuromodulation of the Endbulb of Held-bushy cell synapse"

5. Session Aaron Nagel

- 10:10 Keynote lecture **Susanne Schreiber** (Humboldt University Berlin)
"Network states depend on cellular spiking personality:
[de-]synchronising networks without changes in synaptic strength or input"

11:00 **Coffee Break 30min**

6. Session Chih-Hsuan Yeh

- 11:20 B06 Fischer **Eren Deniz**
"The role of RNA in synapse physiology and brain diseases"
- 11:45 B08 Outeiro **Mohammed Al-Azzani**
"Alpha-synuclein: from aggregation to synaptic effects"
- 12:10 B10 Milovanovic **Branislava Rankovic**
"Regulation of Synapsin/Synaptic Vesicle Dynamics at the Synapse"
- 12:35 B11 Schlüter **Elisa Panzeri**
"How do we learn without forgetting?
Identifying a synaptic switch to enable and disable plasticity"

13:00 **Lunch**

13:45 **Poster session**

14:30 **Freetime / PI's meeting** (only for PI's. Discussion for the 3rd funding period)

7. Session Christian Hoffmann

- 17:00 C01 Tetzlaff **Nahid Safari Lemjiri**
"Controlling the Formation of Molecular Nanoclusters in Postsynapse"
- 17:25 C02 Wolf **Mohammadreza Soltanipour**
"Synaptic Stochasticity and Dynamics in Circuit Function"
- 17:55 C03 Fauth **Mitha Thomas**
"The role of actin stable pool and spine geometry in synaptic tagging"

8. Session Cristian Bogaciu

- 18:20 Keynote lecture **Sreeranga Chandra** (Yale School of medicine)
"Presynaptic Proteostasis and Neurodegeneration"

19:30 **Dinner**

9. Session Richard Lincoln

- 08:30** C05 Klumpp **Simon Dannenberg**
"The synapse as a complex physical environment"
- 08:55** C06 Müller **Russell Spencer**
"Coarse-grained simulation of the role of local environment on presynaptic release: from fusion to fission"
- 09:20** C08 Moser **Chad Grabner**
"The synaptic ribbon shapes the molecular topography of the rod photoreceptor active zone"
- 09:45** C09 Priesemann **Fabian Mikulasch**
"Power-law adaptation in the presynaptic vesicle cycle"
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10. Session Arash Golmohammadi

- 10:10** Keynote lecture **Tatjana Tchumatchenko**
(University of Bonn, Institute of Experimental Epileptology and Cognition Research)
"How energy determines spatial localisation and copy number of molecules in neurons"
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11:00 Coffee Break 30min

11. Session Nazia Hussain

- 11:30** C10 Pape **Sarah Muth / Constantin Pape**
"Automatic Synapse Reconstruction with Deep Learning"
- 11:55** Z02 Bonn **Maksims Fiosins**
"Analysis, integration and simulation of synaptic data"
- 12:20** Z04 Opazo **Felipe Opazo**
"A Universal Strategy for Fluorescence Microscopy Multiplexing Using Nanobodies with Erasable Signals"
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12. Session Josefa Torres

- 12:45** Keynote lecture **Erik Jorgensen** (University of Utah, School of Biological Sciences)
"Two pools of synaptic vesicles coupled to different calcium channels"
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13:30 Coffee, Fruit, Sandwiches – also for take away

14:30 Departure / Bustransfer
