

SCIENTIFIC PROGRAM

Saturday, June 22, 2024

12:30 h Registration and check-in at the Elsa-Brändström Conference Center

15:00 **Opening Session #1**15:00-15:15 Opening remarks
Eckart D. Gundelfinger / Dietmar Richter (Chair persons of the Blankenese Conferences)15:15-15:30 Welcome address
Blanche Schwappach-Pignataro (Dean of the University Medical School Hamburg and Member of the Board of Trustees, JUNG-Stiftung)15:30-16:10 Opening Lecture: **JUNG lecture (1):**
Reinhard Jahn (Göttingen, Germany)
"Exocytosis of synaptic vesicles - from molecules to function"16:15-19:30 **Session #2 (co-sponsored by the GBM Study Group Molecular Neurobiology)**

Chairs: Jörg Bartsch (Marburg); Stefan Kins (Kaiserslautern)

16:15-16:45 **Tobias M. Böckers** (Ulm, Germany)
"Excitatory Synapses and Neuropsychiatric Diseases"16:50-17:20 **Torben Hausrat** (Hamburg, Germany)
"Tubulin isotypes: specific functions in the brain?"

17:25-17:55 Coffee break

17:55-18:25 **Nils Brose** (Göttingen, Germany)
"Dynamic regulation of presynaptic function and plasticity in health and disease"18:30-19:00 **Gerhard Schratt** (Zürich, Switzerland)
"Non-coding RNA function in neural circuit development and behaviour"19:05-19:20 Selected short talk (1)
"tba"

19:30 Welcome Reception & Dinner

Sunday, June 23, 2024

9:00 - 11.05 **Session #3 (co-sponsored by the DFG-Research Unit "Syntophagy")**

Chairs: Michael R. Kreutz / Anna Karpova (Hamburg & Magdeburg)

9:00 - 9:30 **Natalia Kononenko** (Cologne, Germany)
"Nurturing brain health: the role of autophagy in neuronal metabolism"9:35 - 10:05 **Sandra-Fausia Soukup** (Bordeaux, France)
"How is autophagy regulated at the synapse? Consequences in brain health and disease"10:10-10:40 **Michael A. Cousin** (Edinburgh, UK)
"Synaptic vesicle endocytosis dysfunction and neurodevelopmental disorders"10:45-11:00 Selected short talk (2)
"tba"11:05-13:00 Poster Session 1
with Coffee served at posters

13:00-14:00 Lunch Break

14:00-17:50 **Session #4 "A Neurochemist's View on Functions and Dysfunctions of Brain Synapses"**
(sponsored by the **International Society for Neurochemistry (ISN)**)

Chairs: Michael Cousin (Edinburgh)

14:05-14:35 **Anne-Sophie Hafner** (Nijmegen, NL)
"Excitatory presynapse dysfunction in Alzheimer's disease"14:40-15:10 **Isabel Pérez Otaño** (Alicante, Spain)
"Synaptic machinery for lasting synaptic changes – GIT1/mTOR complexes control synapse-specific translation and memory"15:15-15:45 **Eunjoon Kim** (Daejeon, South Korea)
"NMDA receptor dysfunction in mouse models of autism spectrum disorders"

15:50-16:15 Coffee Break

16:15-16:45 **Etienne Herzog** (Bordeaux, France)
"A synaptic analysis reveals dopamine hub synapses in the mouse striatum"

- 16:50-17:20 **Peter Penzes** (Chikago, IL, USA)
"Synaptic ectodomain signaling and neurodevelopmental disorders"
- 17:25-17:40 Selected short talk (3)
"tba"

17:45-18:25 **JUNG lecture (2):**
Thomas Jentsch (Berlin, Germany)
"Control of vesicle size – an unsuspected role of the 'novel' acid-activate Cl channel ASOR"



18:30 Dinner

Evening session #5 (Immune system-related Synaptopathies)

- Chair: Manuel Frieze (Hamburg)
- 19:45-20:15 **Michela Matteoli** (Milan, Italy)
"Immune-synaptopathies: how the immune system affects synapse function"
- 20:20-20:50 **Harald Prüss** (Berlin, Germany)
"Autoimmunity and neurodegeneration -- new disease concepts"

Monday, June 24, 2024

9:00-11:05 **Session #6** (including **EMBO Young investigator Lecture**)
Chairs: Matthias Kneussel & Dietmar Kuhl (Hamburg)



- 9:00 - 9:30 **Thomas Bourgeron** (Paris, France)
"The genetic architecture of autism: from medicine to neurodiversity"
- 9:35-10:05 **Marina Mikhaylova** (Berlin, Germany) (GBM-supported talk)
"SHANK3 in parvalbumin neurons"
- 10:10-10:25 Selected short talk (4)
"tba"
- 10:30-11:00 **EMBO YIP Lecture**
Cecile Charrier (Paris, France)
"Molecular mechanisms of synaptic development: insights from human-specific genes"

11:05-13:00 Poster Session 2
with Coffee served at posters

13:00-14:00 Lunch Break

14:00-16:05 **Session #7** (Young Women in Science)
Chair: Cecile Charrier (Paris)/Ora Ohana (Hamburg)

- 14:00-14:30 **Katarzyna M. Grochowska** (Hamburg, Germany)
"Lysosomal control of the metastable proteome regulates structural spine plasticity"
- 14:35-15:05 **Cordelia Imig** (Copenhagen, Denmark)
"Dissecting molecular mechanisms underlying serotonin release from sensory cells in the gut epithelium in health and disease"
- 15:10-15:40 **Noa Lipstein** (Berlin, Germany)
"Presynaptic mechanisms in neurodevelopmental and neurodegenerative brain disorders"
- 15:45-16:00 Selected short talk (5)
"tba"

16:05 -16:30 Coffee Break

Session #8
Chair: Reinhard Jahn (Göttingen)



- 16:30-17:00 **Josef T. Kittler** (London, UK)
"Molecular mechanisms of inhibitory synapse formation and plasticity"
- 17:05-17:45 **Matthijs Verhage** (Amsterdam, NL) including an introduction to **SynGO**
"Disease mechanisms and intervention strategies for SNAREopathies"
- 17:50 -18:30 **Final Lecture:**
Morgan Sheng (Boston, MA, USA)
"Synaptic and molecular mechanisms underlying schizophrenia and bipolar disorder"

18:45 **Dinner / Poster Awards**

20:00 **Evening event (Round table)**