

June 22-25
2024
Hamburg

SYNAPTOPATHIES

Molecular Mechanisms of Brain Disease

Program



Saturday, June 22, 2024

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

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 **Reinhard Jahn (Göttingen)**

Exocytosis of synaptic vesicles - from molecules to function



Session #2

Chairs: Jörg Bartsch / Stefan Kins



16:15-16:45 **Tobias M. Böckers (Ulm)**

Excitatory Synapses and Neuropsychiatric Diseases

16:50-17:20 **Torben Hausrat (Hamburg)**

Tubulin isotypes: specific functions in the brain?

17:25-17:55 Coffee Break

17:55-18:25 **Nils Brose (Göttingen)**

Dynamic regulation of presynaptic function and plasticity in health and disease

18:30-19:00 **Gerhard Schratt (Zürich)**

Non-coding RNA function in neural circuit development and behaviour

19:05-19:20 **Maaike A. van Boven (Short Communication)**

Timing is of the essence: desynchronized synaptic transmission as novel disease mechanism in SYT1-associated disorder

19:30 Welcome Reception & Dinner

Sunday, June 23, 2024

Session #3



Chairs: Michael R. Kreutz / Anna Karpova

9:00-9:30 **Natalia Kononenko (Cologne)**

Nurturing brain health: the role of autophagy in neuronal metabolism

9:35-10:05 **Sandra-Fausia Soukup (Bordeaux)**

How is autophagy regulated at the synapse? Consequences in brain health and disease

10:10-10:40 **Michael A. Cousin (Edinburgh)**

Synaptic vesicle endocytosis dysfunction and neurodevelopmental disorders

10:45-11:00	Sebastian Samer (Short Communication) Protein transport from synapse to nucleus is essential for the maintenance of CREB activity after induction of synaptic plasticity
11:05-13:00	Poster Session (Posters #1 - #18) with Coffee served at posters
13:00-14:00	Lunch Break
Session #4	"A Neurochemist's View on Functions and Dysfunctions of Brain Synapses" Chairs: Michael Cousin / Eckart Gundelfinger
14:05-14:35	Anne-Sophie Hafner (Nijmegen) Excitatory presynapse dysfunction in Alzheimer's disease
14:40-15:10	Isabel Pérez Otaño (Alicante) Synaptic machinery for lasting synaptic changes – GIT1/mTOR complexes control synapse-specific translation and memory
15:15-15:45	Eunjoon Kim (Daejeon) NMDA receptor dysfunction in mouse models of autism spectrum disorders
15:50-16:15	Coffee Break
16:15-16:45	Etienne Herzog (Bordeaux) A synaptomic analysis reveals dopamine hub synapses in the mouse striatum
16:50-17:20	Peter Penzes (Chicago) Synaptic ectodomain signaling and neurodevelopmental disorders
17:25-17:40	Hans-Jürgen Kreienkamp (Short Communication) Variants in LRRC7, encoding Densin-180, lead to intellectual disability, autism, aggression and abnormal eating behaviors
17:45-18:25	Thomas Jentsch (Berlin) Control of vesicle size – an unsuspected role of the 'novel' acid-activate Cl channel ASOR
18:30-19:50	Dinner
Session #5	"Immune system-related Synaptopathies" Chair: Manuel Friese
19:50-20:20	Michela Matteoli (Milan) Immune-synaptopathies: how the immune system affects synapse function
20:25-20:55	Harald Prüss (Berlin) Autoimmunity and neurodegeneration -- new disease concepts



Monday, June 24, 2024

Session #6

	Chairs: Matthias Kneussel / Dietmar Kuhl
9:00-9:30	Thomas Bourgeron (Paris) The genetic architecture of autism: from medicine to neurodiversity
9:35-10:05	Marina Mikhaylova (Berlin) SHANK3 in parvalbumin neurons
10:10-10:40	Cecile Charrier (Paris) Molecular mechanisms of synaptic development: insights from human-specific genes
10:45-11:00	Alberto Catanese (Short Communication) Multiomics analysis of hiPSC-derived motoneurons identify pathological synaptic signatures commonly shared across the heterogenous spectrum of ALS
11:05-13:00	Poster Session (Posters #19 - #35) with Coffee served at posters
13:00-14:00	Lunch Break



Session #7

	"Young Women in Science"
	Chairs: Cecile Charrier / Ora Ohana
14:00-14:30	Katarzyna M. Grochowska (Hamburg) Lysosomal control of the metastable proteome regulates structural spine plasticity
14:35-15:05	Cordelia Imig (Copenhagen) Dissecting molecular mechanisms underlying serotonin release from sensory cells in the gut epithelium in health and disease
15:10-15:40	Noa Lipstein (Berlin) Presynaptic mechanisms in neurodevelopmental and neurodegenerative brain disorders
15:45-16:00	Marilyn Tirard (Short Communication) Effects of Perturbed Sumoylation, Neddylation, and Ufmylation on Synaptic Transmission
16:05-16:30	Coffee Break

Session #8

	Chairs: Reinhard Jahn / Jacob B. Sørensen
16:30-17:00	Josef T. Kittler (London) Molecular mechanisms of inhibitory synapse formation and plasticity
17:05-17:45	Matthijs Verhage (Amsterdam) Disease mechanisms and intervention strategies for SNAREopathies
17:50-18:30	Morgan Sheng (Boston) Synaptic and molecular mechanisms underlying schizophrenia and bipolar disorder
18:45	Dinner (Awarding of Poster Prizes)
20:00	Evening event (Round table)



Event Venue: Elsa Brändström Haus

Address:
Wei es Haus
K sterbergstra e 62
22587 Hamburg
<https://ebh-hamburg.de/en/>

Event Homepage:



Closest Bus Stop:
Lichtheimweg

From S-Bahn Blankenese the Buses 286 and 388 are going to Lichtheimweg. Please check the HVV Homepage or App for more information.

www.hvv.de/en



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