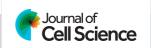


Programme

















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Day 1 | 5 May 2025

with the speakers

<i>,</i> -	
08:30-09:00	Registration Opens
Session:	Young Scientists Session
09:00-09:10 09:10-10:00	Introduction to the program (Chairs) Flash talks: All attendees introduce themselves and their poster/talk
10:00-11:00 11:00-11:40	Coffee Break Round Tables: Identifying topics of interest of the Free group Therapy evening
11:40-12:00	General Discussion, vote on the topics, conclusion
12:00-13:00	Lunch
Session 1:	Novel viewpoints inside the neuron - Dr. Ines Hahn
13:00-13:10 13:10-13:35	Welcome and Opening Remarks Mechanisms regulating mitochondrial homeostasis in neurons
13:35-13:50	Erika Holzbaur Visualizing Microtubule Turnover & In-Lattice Integrations in Polarizing Neurons Ciarán Butler-Hallissey
13:50-14:05	Ciliary ectosome biogenesis as a homeostatic response to disrupted cilia trafficking and signaling Patrick Laurent
14:05-14:30	Navigating microtubule diversity in neurons Lukas Kapitein
14:30-15:10	Coffee Break
Session 2:	Sculpting the nervous system - an evolutionary perspective - Dr. Angeliki Sotiriou
15:10-15:35	Mechanisms of Neurofilament release, spread, and toxicity after neuronal injury Casper Hoogenraad
15:35-15:50	AFF-1 mediates neuronal self-fusion to sculpt a toroid morphology in the C. elegans I5 neuron Lachlan Lu
15:50-16:05	Cell-extrinsic controls over neocortical neuron fate and diversity Ilaria Morassut
16:05-16:20	A molecular switch downstream of Tolls from innate immunity signalling to gliogenesis and neurogenesis in the brain Alicia Hidalgo
16:20-16:35	Human-specific activity-dependent regulation of cortical connectivity Eirini Christopoulou
16:35-17:00	Flash Talks - Short Presentations of the session I posters (2 min, max 2 slides)
17:00-19:00	Poster Session I - Refreshements offered at the posters
19:30-21:00	Dinner
21:00-23:00	"Speed dating" Participants get to introduce themselves and have short discussion

Day 2 | 6 May 2025

Session 3:	Communication in the nervous system: new insights across evolution-Part I - Ms. Emma Theisen
09:00-09:25	Tunneling Nanotubes: Reshaping connectivity in brain development and disease Chiara Zurzolo
09:25-09:40	The ASD-linked kinase NUAK1 controls a neuronal splicing program through its interaction with nuclear speckle proteins
09:40-09:55	Alterations of cortical circuits in mice following premature brain injuries Olivier Raineteau
09:55-10:20	Molecular mapping of neural circuits in octopus Bill Schafer
10:20-11:00	Coffee Break
Session 4:	Communication in the nervous system: new insights across evolution-Part II - Ms. Eirini Christopoulou
Session 4:	
11:00-11:25	Ms. Eirini Christopoulou Syncytial nerve net in a ctenophore: a different view of neural organization and signaling
11:00-11:25 11:25-11:40	Ms. Eirini Christopoulou Syncytial nerve net in a ctenophore: a different view of neural organization and signaling Pawel Burkhardt Activity-dependent transcriptome remodeling at synapses Eva Kaulich Endocytome profiling captures dynamic cell-surface protein regulation underlying neuronal connectivity
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Day 2 | 6 May 2025

Session 5:	Mitochondria as a communication hub in neurons - Part I - Ms Karolina Doubkova
15:30-15:55	Restoration of vision in autosomal dominant optic atrophy by harnessing mitochondria-to-autophagy signals
15:55-16:10	Luca Scorrano Mitochondrial dysfunction promotes tunneling nanotubes between neurons and microglia Ranabir Chakraborty
16:10-16:25	Genome-wide mapping of neuronal RNA organization and condensation Lindsay A. Becker
16:25-16:50	Mitochondria-ER contact sites in neurons as hubs of local translation Angelika Harbauer
16:50-17:20	Coffee Break
Session 6:	Mitochondria as a communication hub in neurons - Part II - Dr. Anthony Procès
17:20-17:45	Dendrite architecture determines mitochondrial distribution patterns in vivo Erin Barnhart
17:45-18:00	Most axonal mitochondria in neurons of the mammalian central nervous system lack mitochondrial DNA and consume ATP Yusuke Hirabayashi
18:00-18:15	A neuromodulatory feedback loop mediated by the neuronal membrane proteasome, NMDA receptors, and CaMKII Taylor Church
18:15-18:40	Regulation of Mitochondrial Stress Signalling Across the Body Steven Zuryn
19:00-20:00	Meet the Editors & Free Group Therapy: Each invited speaker and attending editor meets a small group of young scientists to discuss science, career development etc.
20:00-21:00	Dinner
21:30-23:00	Open discussion - drinks at the poster area

Session 7: New roles for key players: lipid metabolism in the nervous system - Ms. Taylor Church

Day 3 | 7 May 2025

09:00-09:25	Axonal control of presynapse function Volker Haucke
09:25-09:40	Nuclear hormone receptor SEX-1 promotes neuronal lipid homeostasis Dikaia Tsagkari
09:40-09:55	Glial lipid droplets boost developmental brain growth Anna B Ziegler
09:55-10:20	Protecting the nervous system across generations with the maternal diet Roger Pocock
10:20-10:50	Coffee Break - 30 min dedicated to meet and discuss over coffee
Session 8:	Close partners: cellular interactions in the nervous system - Dr. Iris Hardege
10:50-11:15	Molecular heterogeneity and mechanisms of glia-neuron interactions Aakaksha Singhvi
11:15-11:30	Teneurin-4 dictates neuronal migration via structurally exclusive interactions Miguel Berbeira-Santana
11:30-11:45	Paw posture is a robust indicator for injury, pain, and age Letizia Marvaldi
11:45-12:10	Neuronal and glial cell intertwined mechanisms in assembly and integrity of circuit architecture
	Georgia Rapti
	Group Photo
12:15-15:15	Lunch & Free Time
Session 9:	A developmental view on disease mechanisms - Dr. Nathalie Higgs
15:15-15:40	Mechanisms of axon growth and regeneration Frank Bradke
15:40-15:55	The conserved FGFR signalling is required for dendrite regeneration Anindya Ghosh Roy
15:55-16:10	4D MORPHS to Characterise Spatiotemporal Features of Dendritic Spines in ASD Barbora Vidimova
16:10-16:35	Leveraging Evolved Proteostasis Mechanisms to Promote Brain Health Mauro Costa Mattioli
16:35-17:00 17:00-19:00	Flash Talks - Short presentations of the Session II posters Poster Session II
20:00	Gala Dinner (for all participants)

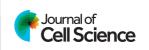
Day 4 | 8 May 2025

Cellular mechanisms of disease in the nervous system - Dr. Julien Courchet
RNA regulation in neurons and neurodegeneration Marina Chekuleva
Spatiotemporal Regulation of CXCR4 in Nerve Regeneration: H ₂ O ₂ as Key Factor Marika Tonellato
Understanding neuronal vulnerability during ageing Natalia Sanchez-Soriano
Time to wake up: Regulations of neural stem cell quiescence Andrea Brand
Coffee Break - 30 min dedicated to meet & discuss over coffee
TECPR2 neuropathy mice reveal endolysosomal dysfunction in neurons and microglia Debjani Bhattacharya
Phenotypic landscape of autism spectrum disorder models at single-cell resolution Gaia Novarino
Prize Ceremony : Short Talk Prize, Poster Prize, Travel Awards
Concluding Remarks
End of conference

















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Invited Speakers

Erin Barnhart

Columbia, NY, USA

Frank Bradke

DZNE, Bonn, DE

Andrea Brand

NYU Grossman School of Medicine, USA

Pawel Burkhardt

University of Bergen, NO

Marina Chekuleva

MDC, Berlin, DE

Mauro Costa Mattioli

Altos Labs, USA

Angelika Harbauer

MPI Munich. DE

Volker Haucke

FMP Berlin, DE

Erika Holzbauer

University of Pennsylvania, PA, USA

Casper Hoogenraad

Genentech, CA, USA

Lukas Kapitein

University Utrecht, NL

Gaia Novarino

ISTA, Vienna, AT

Meital Oren-Suissa

Weizmann, IL

Roger Pocock

Monash University, AU

Georgia Rapti

EMBL, Heidelberg, DE

Bill Schafer

MRC Cambridge, UK

Luca Scorrano

Veneto Institute of Molecular Medicine, IT

Aakaksha Singhvi

Fred Hutch Cancer Center, Seattle, USA

Steven Zuryn

University of Queensland, AU

Chiara Zurzolo

Institut Pasteur. Paris. FR

EMBO Workshop: Cell Biology of the Nervous System

Organizers

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Claudia Bagni

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Massimo A. Hilliard

Queensland Brain Institute, AU

Nektarios Tavernarakis

IMBB, Foundation for Research & Technology, GR



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