



Programme

Sunday, 7 May 2017


11:00-14:00	Registration
Session 1: Axon and Dendritic Growth	
<i>Chair: Esther Stoeckli [University of Zurich, Department of Molecular Life Sciences, Zurich, Switzerland]</i>	
14:00-14:10	Opening Remarks
14:10-14:35	Rüdiger KLEIN [Department of Molecular-Signaling-Development, Max Planck Institute of Neurobiology, Martinsried, Germany] <i>Understanding contact repulsion: roles of exosomes and phagocytosis</i>
14:35-15:00	Azad BONNI [Department of Neuroscience, Washington University School of Medicine, St. Louis, USA] <i>Cell-Intrinsic Regulation of Neuronal Connectivity in the Brain</i>
15:00-15:25	Gaia TAVOSANIS [German Center for Neurodegenerative Diseases-DZNE, Bonn, Germany] <i>The Fly Mushroom Body Calyx: a Small Circuit in the Spotlight</i>
15:25-15:40	Sebastian DUPRAZ [German Center for Neurodegenerative Diseases-DZNE, Bonn, Germany] <i>RhoA Controls Axon Growth through Myosin II-Actin Mediated Restraint of Microtubule Protrusion</i>
15:40-16:25	Coffee break
Session 2: Neuronal Polarity	
<i>Chair: Anthony Barnes [Knight Cardiovascular Institute, Oregon Health and Science University, Portland, USA]</i>	
16:25-16:50	Matthew RASBAND [Baylor College of Medicine, Houston, USA] <i>The Structure and Function of Axonal Spectrin Cytoskeletons</i>
16:50-17:15	Raman DAS [Division of Developmental Biology and Medicine, University of Manchester, Manchester, UK] <i>Cell Behaviour Underlying Neurogenesis in the Developing Spinal Cord</i>
17:15-17:40	Caren NORDEN [Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany] <i>Deconstructing Neuronal Lamination in the Vertebrate Retina</i>
17:40-17:55	Maya SHELLY [Department of Neurobiology and Behavior, Stony Brook University, New York, USA] <i>A Scaffold for cGMP-activity Dictates Dendrite Formation during Neuronal Polarization</i>
17:55-18:20	Coffee break
18:20-19:00	Keynote Talk: Reinhard JAHN [Department of Neurobiology, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany] <i>Molecular Mechanisms Governing Exocytosis of Synaptic Vesicles</i>
19:00-21:00	Dinner
21:00-23:00	Drinks – including speed dating (poster presenters and other participants interact with main/keynote speakers)

Monday, 8 May 2017

Session 3: Axon Regeneration

Chair: Monica Sousa [IBMC/i3S University of Porto, Portugal]

09:00-09:25	Eran PERLSON [Department of Physiology and Pharmacology, Tel Aviv University, Sackler Faculty of Medicine, Tel Aviv, Israel] <i>Location, Location, Location – Amyotrophic Lateral Sclerosis as a Spatiotemporal Mislocalization Disease</i>
09:25-09:50	Yishi JIN [Division of Biological Sciences, UC San Diego, San Diego, USA] <i>Novel Pathways of Axon Regeneration Identified from Large-scale Genetic Screen in C. elegans</i>
09:50-10:15	Jerry SILVER [Department of Neurosciences, Case Western Reserve University School of Medicine, Cleveland, USA] <i>Overcoming Proteoglycan Barriers to Axon Regeneration and Sprouting</i>
10:15-10:55	Coffee break

10:55-11:20	Mike FAINZILBER [Department of Biomolecular Sciences, Weizmann Institute of Science, Rehovot, Israel] <i>The Importins of Axonal Transport in Neuronal Growth and Survival</i>
11:20-11:35	Eric EWAN [Department of Neuroscience, Washington University in St. Louis, USA] <i>Role of SCG10 in Axon Regeneration</i>
11:35-11:50	Ulrich HENGST [Department of Pathology & Cell Biology and The Taub Institute for Research on Alzheimer's Disease and the Aging Brain, Columbia University, New York, USA] <i>Control of Axonal mRNA Localization and Translation through an Exclusion Mechanism</i>
12:00-13:45	 Lunch Break

Session 4: Intracellular Dynamics

Chair: Peter Schu [Department for Cellular Biochemistry, Georg-August-University Göttingen, Germany]

13:45-14:10	Jochen GUCK [Biotechnology Center, TU Dresden, Dresden, Germany] <i>Mechanosensing of Neurons and Glial Cells in the CNS</i>
14:10-14:35	Volker HAUCKE [Department of Molecular Pharmacology and Cell Biology, Leibniz-Institute for Molecular Pharmacology, Berlin, Germany] <i>Retrograde Axonal Transport of Signaling Autophagosomes in Neuronal Complexity and Neurodegeneration</i>
14:35-15:00	Olivier THOUMINE [Institute Interdisciplinaire de Neurosciences-IINS, CNRS/Université Bordeaux 2, Bordeaux, France] <i>Role of the Adhesion Molecule Neuroligin-1 in Synaptogenesis Probed by Single Molecule Imaging and Regulation of Tyrosine Phosphorylation</i>
15:00-15:15	Ruud TOONEN [VU University Amsterdam, The Netherlands] <i>SNAP-25 Gene Family Members Differentially Support Secretory Vesicle Fusion</i>
15:15-15:30	Meng-meng FU [Department of Neurobiology, Stanford University School of Medicine, Stanford, USA] <i>Golgi Outposts Mediate Uniform Microtubule Polarity in Oligodendrocytes</i>
15:30 – 15:45	Adrian MOORE [RIKEN Brain Science Institute, Wako-shi, Saitama, Japan] <i>Important Things have Small Beginnings: Major Branches in the Dendrite Arbor Arise by Stabilization of Single Actin Bundles at the Dendrite Tip</i>
15:45-18:30	Poster Session I: RED SESSION - ODD NUMBER
19:00-21:00	 Dinner
21:00-23:00	 Wine and Beer at Poster Session

Tuesday, 9 May 2017

Session 5: Synapse

Chair: Helmut Kessels [Netherlands Institute for Neuroscience, Amsterdam, Netherlands]

09:00-09:25	Kristian FRANZE [Department of Physiology, Development and Neuroscience, University of Cambridge, UK] <i>The Mechanical Control of Neuronal Development and Regeneration</i>
09:25-09:50	Silvio RIZZOLI [Department of Neuro and Sensory Physiology, University of Göttingen Medical center, Göttingen, Germany] <i>The Turnover of Mammalian Proteins is Encoded in their Amino Acid and Codon Compositions</i>
09:50-10:15	Michael KREUTZ [Leibniz Institute for Neurobiology, Magdeburg, Germany] <i>The EF-hand Ca²⁺-sensor Caldendrin Directly Transduces Postsynaptic Calcium Signals to Stabilize Branched Actin Filaments in Spines</i>
10:15-10:30	Joris de WIT [KU Leuven, Department of Neurosciences, VIB Center for Brain & Disease Research, Leuven, Belgium] <i>A Novel Input-specific Synaptic Organizing Complex Controls Mossy Fiber Synapse Development and Function</i>
10:30-10:45	Katalin SCHLETT [Neuronal Cell Biology Research Group, Eotvos Lorand University, Budapest, Hungary] <i>The Caskin Scaffold Protein Regulates Dendritic Spine Morphology, Learning and Memory</i>
10:45-11:25	 Coffee break

Session 6: Current Hot Topics

Chair: Britta Eichholt [Charité Cross Over (CCO), Institut für Biochemie, Berlin, Germany]

11:25-11:40	Jeroen PASTERKAMP [Department of Translational Neuroscience, UMC Utrecht, The Netherlands] <i>A Novel Subtractive Genetics Approach for Dissecting Dopaminergic Pathway Development and Plasticity</i>
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11:40-11:55	Konstantinos PALIKARAS [IMBB-FORTH, Heraklion, Greece] <i>Mitophagy and Neuronal Homeostasis in C. elegans</i>
11:55-12:10	Peter SOBA [Center for Molecular Neurobiology, University Medical Campus Hamburg-Eppendorf, Germany] <i>Maintenance of Scaled Dendritic and Synaptic Growth during Juvenile Development Requires Tao kinase Function</i>
12:10-13:55	🍷 Lunch Break

Session 7: Neuro-Developmental Processes

Chair: Oren Schuldiner [Department of Molecular Cell Biology, Weizmann Institute, Rehovot, Israel]

14:00-14:25	Jürgen KNOBLICH [IMBA – Institute of Molecular Biotechnology, Vienna, Austria] <i>Cerebral Organoids: Modelling Human Brain Development and Tumorigenesis in Stem Cell Derived 3D Culture</i>
14:25-14:50	Melissa ROLLS [Department of Biochemistry and Molecular Biology, The Pennsylvania State University, University Park, USA] <i>The Pluses and Minuses of Microtubule Organization in Dendrites</i>
14:50-15:15	Wieland HUTTNER [Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany] <i>On the Role of Human-Specific Genes, Notably ARHGAP11B, in Neural Stem Cell Amplification and Neocortex Expansion in Development and Evolution</i>
15:15-15:30	Laura F. GUMY [Division of Cell Biology, Utrecht University, Utrecht, The Netherlands] <i>MAP2 Defines a Pre-axonal Filtering Zone to Regulate KIF1-Versus KIF5-Dependent Cargo Transport in Sensory Neurons</i>
15:30-15:45	Oren SCHULDINER [Department of Molecular Cell Biology, Weizmann Institute, Rehovot, Israel] <i>A Systematic Exploration of Neuronal Remodeling Reveals a Transcription Factor Hierarchy</i>
15:45-18:30	Poster Session II: GREEN SESSION - EVEN NUMBERS
18:30-19:10	Keynote Talk: Nobutaka HIROKAWA [Department of Cell Biology and Anatomy, University of Tokyo, Tokyo, Japan] <i>Molecular Motors, KIFs and Regulation of Neuronal Function, Morphogenesis, and Brain Wiring</i>
19.10	🍷 Dinner

Wednesday, 10 May 2017

Session 8: Synapse and Disease

Chair: Alexandros Pouloupoulos [Department of Pharmacology, University of Maryland School of Medicine, Baltimore, USA]

09:00-09:25	Corette WIERENGA [Faculty of Science, Cell Biology, Utrecht University, Utrecht, The Netherlands] <i>Molecular Pathway Underlying Bouton Stabilization by Semaphorin4D during Inhibitory Synapse Formation</i>
09:25-09:50	Patrik VERSTREKEN [VIB Center for the Biology of Disease, KU Leuven, Leuven, Belgium] <i>Fine-Tuning Proteolysis and Exosome Release by Membrane-deforming Heat Shock Chaperones</i>
09:50-10:05	Francesca BARTOLINI [Pathology & Cell Biology, Columbia University, New York, USA] <i>Microtubule Hyperstabilization by mDia1 Drives Tau-dependent Synaptotoxicity</i>
10:05-10:45	☕ Coffee break

Session 9: Neuronal Degeneration

Chair: David Sulzer [Columbia University, New York, USA]

10:45-11:00	Roman PRASCHBERGER [Department of Clinical and Experimental Epilepsy, UCL, London, UK] <i>Elucidating the Pathophysiology of GOSR2-mediated Progressive Myoclonus Epilepsy from Molecule to Neuron</i>
11:00-11:25	Claudia BAGNI [Department of Fundamental Neuroscience, University of Lausanne, Switzerland] <i>The disease Associated Protein CYFIP1 Orchestrates Axonal Outgrowth and Brain Wiring</i>
11:25-11:50	David SULZER [Columbia University, New York, USA] <i>Autoimmune Aspects of Parkinson's Disease</i>
11:50-12:15	Closing Remarks – End of Conference - Lunch