

Programme

Tuesday, 7 May 2019

11:00	Registration
13:20-13:30	Opening Remarks
Session 1: Neuronal Polarity	
Chair: Francesca BARTOLINI [Columbia University, USA]	
13:30-13:55	Invited Talk 1: Kang SHEN [Stanford University, USA] http://web.stanford.edu/group/shenlab/cgi-bin/shenlab <i>Growing Tip-localized Microtubule Organizing Center Determines Microtubule Orientation in Dendrites</i>
13:55-14:10	Short Talk 1: Froylan CALDERON DE ANDA [University Medical Center Hamburg-Eppendorf, ZMNH, Germany] <i>Radial F-actin Organization During Early Neuronal Development</i>
14:10-14:25	Short Talk 2: Ines HAHN [University of Manchester, UK] <i>Polymerisation of Microtubules is Functionally Linked to their Bundled Arrangements in Axons</i>
14:25-14:50	Invited Talk 2: Linda VAN AELST [Cold Spring Harbor Laboratory, USA] https://www.cshl.edu/research/faculty-staff/linda-van-aelst <i>Axo-axonic Innervation of Neocortical Pyramidal Neurons by GABAergic Chandelier Cells Requires AnkyrinG-associated LICAM</i>
14:50-15:30	☕ <i>Coffee break</i>
Session 2: Axon Growth & Guidance	
Chair: Nuria DOMINGUEZ ITURZA [University of Lausanne, Switzerland]	
15:30-15:55	Invited Talk 3: Yimin ZOU [University of California, San Diego, USA] http://biology.ucsd.edu/research/faculty/yzou <i>Wnt/planar Cell Polarity Signaling in Growth Cone Guidance</i>
15:55-16:10	Short Talk 3: Aurnab GHOSE [Indian Institute of Science, Education and Research, India] <i>Actin-Microtubule Coordination in the Neuronal Growth Cone: a Novel Role for Formin 2</i>
16:10-16:25	Short Talk 4: Telma SANTOS [German Center for Neurodegenerative Diseases – DZNE, Germany] <i>Axon Growth of CNS Neurons in three Dimensions is Amoeboid-like and Independent of Adhesions</i>
16:25-16:50	Invited Talk 4: Guillermina LÓPEZ-BENDITO [Instituto de Neurociencias CSIC & Univ. Miguel Hernández, Spain] http://lopezbenditolab.com <i>Thalamic Calcium Waves Regulate the Development and Plasticity of Sensory Cortical Maps</i>
17:00-19:30	Poster Session I – Red Session
19:30-21:00	🍴 <i>Dinner</i>
21:00-23:00	<i>Drinks – including speed dating (poster presenters and other participants interact with main speakers)</i>

Wednesday, 8 May 2019

Session 3: Dendrite

Chair: Azadeh IZADIFAR [VIB-KU Leuven, Belgium]

09:00-09:25	Invited Talk 5: Oren SCHULDINER [Weizmann Institute of Science, Israel] https://www.weizmann.ac.il/mcb/Schuldiner/home <i>Adhesion Mediated Neuron-Neuron Communication Instructs Neuronal Circuit Remodeling</i>
09:25-09:40	Short Talk 5: Tomke STÜRNER [German Center for Neurodegenerative Diseases (DZNE), Germany] <i>In Vivo Actin Dynamics in Dendrites: A Computational Approach</i>
09:40-09:55	Short Talk 6: Sebastian RUMPF [University of Muenster, Germany] <i>Tissue-Derived Mechanical Force During Dendrite Pruning in the Drosophila PNS</i>
09:55-10:20	Invited Talk 6: Lukas KAPITEIN [Utrecht University, Netherlands] http://cellbiology.science.uu.nl/research-groups/lukas-kapitein-biophysics <i>Sorting Out Polarized Transport in Neurons</i>
10:20-10:50	☕ Coffee break

Session 4: Synapse

Chair: Bharti NAWALPURI [Institute for Stem Cell Science and Regenerative Medicine, India]

10:50-11:15	Invited Talk 7: Peter SCHEIFFELE [University of Basel, Switzerland] https://www.biozentrum.unibas.ch/research/groups-platforms/overview/unit/scheiffele <i>Cell Biological Mechanisms of Synapse and Circuit Dysfunction in Rodent Models of Autism-spectrum Disorders</i>
11:15-11:30	Short Talk 7: Francesca BARTOLINI [Columbia University, USA] <i>Presynaptic Boutons are Hotspots for Activity-dependent Microtubule Nucleation</i>
11:30-11:45	Short Talk 8: Nuria DOMINGUEZ ITURZA [University of Lausanne, Switzerland] <i>The Autism and Schizophrenia-associated Protein CYFIP1 Regulates Bilateral Brain Connectivity</i>
11:45-12:10	Invited Talk 8: Monica SOUSA [University of Porto, Portugal] https://www.i3s.up.pt/research-group?x=39 <i>Regulation of Axon Diameter by the Membrane Periodic Skeleton</i>
12:10-13:30	🍴 Lunch

Session 5: Transport

Chair: Ines HAHN [University of Manchester, UK]

13:30-13:55	Invited Talk 9: Erika HOLZBAUR [Perelman School of Medicine, University of Pennsylvania, USA] http://www.med.upenn.edu/apps/faculty/index.php/g275/p20170 <i>Trafficking in Neurons: Express Shipping and Local Delivery</i>
13:55-14:10	Short Talk 9: Richard EVA [University of Cambridge, UK] <i>Axonal Signaling, Trafficking and Transport Mechanisms Regulating Axon Regeneration in the Adult CNS</i>
14:10-14:25	Short Talk 10: Frédéric SAUDO [Grenoble Institut Neurosciences, France] <i>Vesicular Treadmilling in Axons Defines how Synapses Adapt to High Neuronal Demand</i>
14:25-14:50	Invited Talk 10: Antonella RICCIO [MRC LMCB, London, UK] http://www.ucl.ac.uk/lmcb/users/antonella-riccio <i>The Secret Life of 3'UTRs in Developing Neurons</i>
14:50-15:25	☕ Coffee break

Session 6: Regeneration

Chair: Elisa SAVINO [Vita-Salute San Raffaele University, Italy]

15:25-15:50	Invited Talk 11: Simone DI GIOVANNI [Imperial College London, UK] https://www.imperial.ac.uk/people/s.di-giovanni <i>Age-dependent Immune Control of Axonal Regeneration</i>
15:50-16:05	Short Talk 11: Indrek KOPPEL [Weizmann Institute of Science, Israel] <i>Subcellular Localization of the RNA-binding Protein Nucleolin for Axon Growth Regulation</i>
16:05-16:20	Short Talk 12: Azadeh IZADIFAR [VIB-KU Leuven, Belgium] <i>Conserved Functions of Wnk Kinases in Axon Branch Patterning and Maintenance</i>

16:20-16:45	Invited Talk 20: Mark TUSZYNSKI [UC San Diego School of Medicine, USA] https://neurosciences.ucsd.edu/CENTERS/NEURAL-REPAIR/Pages/default.aspx <i>Neural Relay Formation by Neural Stem Cells after Spinal Cord Injury</i>
Session 7: Degeneration	
Chair: Maria SCHÖRNIG [Max Planck Institute for Evolutionary Anthropology, Germany]	
16:45-17:10	Invited Talk 11: Marc FREEMAN [Oregon Health & Science University, Portland, USA] https://www.ohsu.edu/people/marc-freeman/AFE073540E243A0315504A3B0E0654B9 <i>Neuron-glia Network Signaling after Nerve Injury</i>
17:10-17:25	Short Talk 13: Maya MAOR NOF [Stanford University, USA] <i>Uncovering Epigenetic Changes in Response to TDP-43 and C9ORF72 Dipeptide-repeat-protein Toxicity</i>
17:25-17:40	Short Talk 14: Ulrich HENGST [Columbia University, USA] <i>Promotion of Axon Growth and Fasciculation Through an Axonally Derived Protein</i>
17:40-18:05	Invited Talk 12: Rosalind SEGAL [Harvard Medical School, Cambridge, USA] http://segallab.dana-farber.org <i>Transport and Translation of mRNAs that Promote Axon Survival</i>
18:05-20:00	Meet the Editor/s
20:00-21:30	🍷 Dinner
21:30-23:00	Wine and Beer at Poster Room
Thursday, 9 May 2019	
Session 8: Neuronal Plasticity	
Chair: Tomke STÜRNER [German Center for Neurodegenerative Diseases (DZNE), Germany]	
09:25-09:40	Short Talk 15: Amrita MUKHERJEE [University of Cambridge, UK] <i>Role and Regulation of Gamma Tubulin Ring Complexes (γ-TuRCs) in Dendritic Arbor Development</i>
09:40-09:55	Short Talk 16: Peter SOBA [University Medical Center Hamburg/Eppendorf (UKE), Germany] <i>Maintenance of Cell Type-specific Connectivity and Circuit Function Requires Tao Kinase</i>
09:55-10:20	Invited Talk 21: Christina ALBERINI [New York University, NY, USA] http://www.cns.nyu.edu/corefaculty/Alberini.php <i>A Critical Role for Autophagy in Long-term Memory Formation</i>
10:20-10:50	☕ Coffee break
Session 9: Glia	
Chair: Amrita MUKHERJEE [University of Cambridge, UK]	
10:50-11:15	Invited Talk 17: David ATTWELL [University College London, UK] http://www.ucl.ac.uk/npp/da.html <i>The Role of Capillary Pericytes in Alzheimer's Disease</i>
11:15-11:30	Short Talk 17: Bharti NAWALPURI [Institute for Stem Cell Science and Regenerative Medicine, India] <i>Role of GW182 during Neuronal Development</i>
11:30-11:45	Short Talk 18: Martin BALASTIK [Institute of Physiology, CAS, Czech Republic] <i>CRMP2 Mediates Sema3F-dependent Axon and Dendritic Spine Pruning</i>
11:45-12:10	Invited Talk 18: Magdalena GÖTZ [Ludwig Maximilians Universität München, Germany] http://www.mcn.uni-muenchen.de/members/regular/goetz/index.html <i>Novel Mechanisms of Neurogenesis and Repair</i>
12:10-14:00	🍷 Lunch
14:00-14:25	Invited Talk 19: Nathalie ROUACH [Collège de France, CIRB, Paris, France] http://www.college-de-france.fr/site/en-cirb/rouach.htm <i>Physiological Synaptic Transmission and Cognition are Fueled by Astroglial Glutamine via Connexin 43 Hemichannels</i>
14:25-17:00	Poster Session II – Blue Session
19:00	🍷 Dinner

Friday, 10 May 2017

Session 10: Stem Cells

Chair: Maya MAOR NOF [Stanford University, USA]

09:00-09:25	Invited Talk 15: Gaia NOVARINO [Institute for Science and Technology, Klostemeuburg, Austria] https://ist.ac.at/research/research-groups/novarino-group <i>Epigenetic Regulators in Autism Spectrum Disorders</i>
09:25-09:40	Short Talk 19: Alexandre BAFRET [Institut Curie, France] <i>Acentrosomal Microtubule Organizing Centers in Mouse and Human Neural Stem Cells</i>
09:40-09:55	Short Talk 20: Maria SCHÖRNIG [Max Planck Institute for Evolutionary Anthropology, Germany] <i>Morphological and Functional Comparisons between Human and Chimpanzee Induced Neuron</i>
09:55-10:20	Invited Talk 16: Pierre VANDERHAEGHEN [University of Brussels, Belgium] http://dev.ulb.ac.be/pvdhlab <i>Deciphering Human-specific Mechanisms of Cortical Neuron Development.</i>
10:20-10:50	☛ Coffee break
Session 11: Novel Methods	
Chair: Telma SANTOS [German Center for Neurodegenerative Diseases – DZNE, Germany]	
10:50-11:15	Invited Talk 22: Valentin NÄGERL [Université de Bordeaux / CNRS UMR 5297, France] http://www.iins.u-bordeaux.fr/research-teams-valentin-nagerl <i>Super-Resolution Imaging of the Structure and Function of Tripartite Synapses</i>
11:15-11:30	Short Talk 21: Fengwei YU [Temasek Life Sciences Laboratory (TLL), Singapore] <i>A Microtubule Polymerase Complex is Essential for Dendritic Microtubule Polarity and Dendrite Pruning in Drosophila</i>
11:30-11:45	Short Talk 22: Elisa SAVINO [Vita-Salute San Raffaele University, Italy] <i>PRRT2 Function in the Regulation of Neuronal Actin Cytoskeleton</i>
11:45-12:10	Invited Talk 23: Ryohei YASUDA [Max Planck Florida Institute for Neuroscience, Jupiter, USA] https://www.maxplanckflorida.org/our-science/our-scientists/ryohei-yasuda <i>Biochemical Computation in Single Dendritic Spines</i>
12:10-14:00	Closing Remarks – End of Workshop - ☛ Lunch