PROGRAM

Cell Biology of the Neuron: Polarity, Plasticity and Regeneration Crete, May 2011

SATURDAY, May 7	
10.00 - 13.00	Registration
13.00 - 14.00	Lunch
14.00 - 14.15	Opening Remarks
SESSION 1	SYNAPTOGENESIS
Chairperson:	Eckhard Gundelfinger [Leibniz Institute of Neurobiology, Magdeburg]
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14.15 - 14.45	Molecular Mechanisms of Synapse Stabilization and Disassembly Graeme Davis [University of California, San Francisco]
14.45 - 15.15	Long Term Dynamics of Inhibitory Synapses Ann Marie Craig [University of British Columbia, Vancouver]
15.15 - 15.45	Dynamic Regulation of Synaptic Adhesion Complexes by Alternative Splicing Peter Scheiffele [Biozentrum of the University of Basel]
15.45 - 16.00	Role of Leucine-Rich Repeat Containing Proteins in Excitator Synapse Development Joris de Wit [University of California San Diego]
16.00 - 16.30	Coffee Break
SESSION 2	NEURONAL PLASTICITY – RECEPTOR DYNAMICS
SESSION 2 Chairperson:	NEURONAL PLASTICITY – RECEPTOR DYNAMICS Thomas Schwarz [Harvard Medical School, Boston]
Chairperson:	Thomas Schwarz [Harvard Medical School, Boston] A Nanoscale View into the Dynamic of AMPA Receptor Organization in Synapses
Chairperson: 16.30 - 17.00	Thomas Schwarz [Harvard Medical School, Boston] A Nanoscale View into the Dynamic of AMPA Receptor Organization in Synapses Daniel Choquet [University of Bordeaux] Regulation of Neuronal Function and Dysfunction by Protein SUMOylation
Chairperson: 16.30 - 17.00 17.00 - 17.30	Thomas Schwarz [Harvard Medical School, Boston] A Nanoscale View into the Dynamic of AMPA Receptor Organization in Synapses Daniel Choquet [University of Bordeaux] Regulation of Neuronal Function and Dysfunction by Protein SUMOylation Jeremy Henley [University of Bristol] Intrecellular Machinery and Signaling for AMPA Receptor Trafficking at Synapses
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SUNDAY, May 8		
SESSION 3	NEURONAL REGENERATION	
Chairperson:	James Fawcett [University of Cambridge]	
09.00 - 09.30	Control of Motor Neuron Generation and Regeneration in Zebrafish Catherina Becker [University of Edinburgh]	
09.30 - 10.00	Nogo-A is a Negative Regulator of Neurite Growth in the Developing and Adult Nervous System Martin Schwab [University of Zurich]	
10.00 - 10.30	Defining the Genetic Program of Axon Regeneration in the CNS Zhigang He [Harvard Medical School, Boston]	
10.30 - 10.45	Regeneration of the Adult Zebrafish Brain after Traumatic Lesion: Neurogenic Radial Glial-Type Progenitor Cells make New Neurons Michael Brand [Dresden University]	
10.45 - 11.15	Coffee Break	
SESSION 4	LOCAL mRNA TRANSLATION	
Chairperson:	Rüdiger Klein [Max Planck Institute of Neurobiology, Martinsried]	
11.15 - 11.45	RNA-Based Control of Visual System Wiring Christine Holt [University of Cambridge]	
11.45 - 12.15	Identification of Localized mRNAs in Hippocampal Neurons Eric Schuman [Max Planck Institute of Brain Research, Frankfurt]	
12.15 - 12.45	CYFIP1, a Neuronal elF4E-BP, Links Local Translational Regulation to Spine Remodeling Insights into Mental Retardation and Autism Claudia Bagni [Vesalius Research Center VIB, Leuven]	
12.45 - 13.00	CNP/cGMP Signaling Regulates Axon Branching and growth by Modulating Microtubule Dynamics Le Ma [University of Southern California, Los Angeles]	
13.00 - 14.00	Lunch	
SESSION 5	NEURONAL PLASTICITY - CYTOSKELETON	
Chairperson:	Carlos Dotti [Katholieke Universiteit Leuven]	
14.15 - 14.45	Regulating Synaptic Strength Across the Cleft by N-Cadherins Yukiko Goda [University College London]	
14.45 - 15.15	Presynaptic Tenacity: Insights from Live Imaging Experiments Noam Ziv [Technion Faculty of Medicine, Haifa]	
15.15 - 15.45	Class-Specific Dendrite Morphology Control by the Actin Bunding Protein Fascin Gaia Tavosanis [Max Planck Institute of Neurobiology, Martinsried]	
15.45 - 16.00	EB3 Stably Links Microtubules to Ankyrin G in the Axon Initial Segment Christophe Leterrier [INSERM U641, Marseille]	
16.00 - 18.00	Coffee Break & Poster Session II – GREEN SESSION	
18.00 - 19.30	Dinner	

19.30	-	20.30	Keynote Lecture 2:
			Neurogenesis from Glial Cells – Novel Sources for New Neurons in the Adult Brain
			Magdalena Götz [Helmholz Zentrum München]

20.30 *Wine & Beer*

	MONDAY, May 9			
SESSION 6	NEURONAL POLARITY			
Chairperson:	Yishi Jin [University of California, San Diego]			
09.00 - 09.30	Establishment of Neuronal Polarity Carlos Dotti [Katholieke Universiteit Leuven]			
09.30 - 10.00	Molecular Mechanisms Underlying Neuronal Polarization in vivo Franck Polleux [The Scripps Research Institute, La Jolla]			
10.00 - 10.30	Neurotrophin Regulate Neuronal Polarity Acting through Ca2+ and CaMKK Kozo Kaibuchi [Nagoya University]			
10.30 - 10.45	ADF/Cofilin Directs Neuritogenesis in the Developing Mammalian Brain Kevin Flynn [Max Planck Institute of Neurobiology, Martinsried]			
10.45 - 11.15	Coffee Break			
SESSION 7	AXON GROWTH AND REGENERATION			
Chairperson:	Farida Hellal [Max Planck Institute of Neurobiology, Martinsried]			
11.15 - 11.45	Lpd Depletion Reveals a Novel SRF-Dependent Funtion that Specifies Radial Versus Tangential Migration of Bipolar Pyramidal Neurons Frank B. Gertler [Koch Institute for Integrative Cancer Research at MIT]			
11.45 - 12.15	Enhancing the Regenerative Ability of Axons James Fawcett [University of Cambridge]			
12.15 - 12.45	Signaling Axonal Aegeneration in the CNS Marie Filbin [Hunter College, New York]			
12.45 - 13.00	The Oriented Emergence of Axons from Retinal Ganglion Cells is Directed by Laminin Contact in vivo Owen Randlett [University of Cambridge]			
13.00 - 14.00	Lunch			
14.00 - 16.15	Coffee Break & Poster Session III – BLUE SESSION			
16.15 - 17.15	Keynote Lecture 3: Dendrite Morphogenesis and Functional Implications Yuh-Nung Jan [University of California, San Francisco]			
17.15 - 17.45	Coffee Break			

SESSION 8	HOT-TOPIC SESSION
Chairpersons:	Lukas Kapitein [Utrecht University, Utrecht] & Eleanor Coffey [Turku Centre for Biotechnology]
17.45 - 18.00	The Role of Diverse Surface Receptor Complexes in Controlling Axonal Branching Dietmar Schmucker [Vesalius Research Center VIB, Leuven]
18.00 - 18.15	Controlling Axonal Polarization using Micropatterns Mariano Bisbal [Université Joseph Fourier, Grenoble]
18.15 - 18.30	Characterization of Voltage and Temperature Dependent Gating of Channelrhodopsin 2, and Application in a Dispersed Hippocampal Culture Paradigm Thomas Chater [University of Bristol]
18.30 - 18.45	Small Heat Shock Proteins Protect Against Neurodegeneration Nikos Kourtis [Institute of Molecular Biology and Biotechnology – FORTH, Heraklion]
18.45 - 19.00	Identification of the Nogo Receptor Family Members NgR1 and NgR3 as CSPG Receptors: Evidence for a Mechanistic Link between CNS Myelin- and CSPG-Mediated Growth Inhibition Travis Lee Dickendesher [University of Michigan]
19.00 - 19.15	Axonal and Synaptic Degeneration is Regulated by the Hiw E3 Ubiquitin Ligase and Conditioning Lesion Catherine Collins [University of Michigan]
19.15 - 19.30	A Growth-Inhibitory Proteoglycan Activates Atypical PKC and Modifies Par Complex Function Joel Levine [Stony Brook University, New York]
19.30 - 19.45	MyosinV-Dependent Transport of PTEN Regulates PI3K Signaling and Neuronal Morphogenesis Britta Eickholt [King's College London]
19.45	Dinner & Party

TUESDAY, May 10		
SESSION 9	NEURONAL TRAFFICKING	
Chairperson:	Jose Esteban [Universidad Autonoma Madrid]	
09.00 - 09.30	Huntington's Disease: Huntington and the Control of Cellular Dynamics Frederic Saudou [Centre Universitaire, Institut Curie, Orsay]	
09.30 - 10.00	Regulating Mitochondrial Motility Thomas Schwarz [Harvard Medical School, Boston]	
10.00 - 10.30	Rapid Trafficking of GABAA Receptors and the Tuning of Inhibitory Transmission Josef Kittler [University College of London]	
10.30 - 10.45	From Soma to Synapse: Sorting out Polarized Transport in Neurons Lukas Kapitein [Utrecht University, Utrecht]	
10.45 - 11.15	Coffee Break	

SESSION 10	SYNAPTOGENESIS
Chairperson:	Peter Scheiffele [Biozentrum of the University of Basel]
11.15 - 11.30	Ion-Flux Independent NMDA Receptor Function is required for A6-Induced Synaptic Depression Helmut Kessels [The Netherlands Institute of Neuroscience, Amsterdam]
11.30 - 12.00	Homeostatic Plasticity of the Presynapse Extensive Remodeling of the Cytomatrix at the Active Zone upon Prolonged Network Silencing Eckart Gundelfinger [Leibniz Institute of Neurobiology, Magdeburg]
12.00 - 12.30	Shedding light on the Assembly of Synapse Structure and Function Stefan Sigrist [Freie Universität Berlin]
12.30 - 13.00	Axon Regeneration in C. elegans Yishi Jin [University of California, San Diego]
13.00 - 13.15	Closing, short feedback on conference
13.15	Lunch