



Ribbon Synapses Symposium



Day 1, Monday, September 2nd, 2019

08:30 – 08:55	Registration
08:55 – 09:05	Opening remarks (Tobias Moser)
09:05 – 11:15	Session 1: Ribbon Synapses in Eye and Ear (Chair: Mark Rutherford)
09:05 – 09:50	Anthony Ricci (plenary lecture) “Hair cell synaptic specializations support high rates of release”
09:50 – 10:10	Özge Özcete (short talk) „Sound encoding at individual inner hair cell synapses”
10:10 – 10:55	Leon Lagnado (plenary lecture) „Coding with vesicles at a visual synapse”
10:55 – 11:15	Kaspar Gierke (short talk) „In search for the synaptic vesicle tether at the photoreceptor ribbon synapse”
11:15 – 11:45	Posters and coffee break
11:45 – 12:55	Session 2: Structure and Function of Ribbon Synapses I (Chair: Katie Kindt)
11:45 – 12:20	Sonja Pyott „Postsynaptic mechanisms regulating transmission at inner hair cell ribbon synapses”
12:20 – 12:55	Juan Goutman „Mechanisms of synaptic depression and recovery at the hair cell ribbon synapse”
12:55 – 13:55	Lunch break
13:55 – 15:40	Session 3: Structure and Function of Ribbon Synapses II (Chair: Frank Schmitz)
13:55 – 14:30	Helmut Brandstätter „Bassoon revisited: the many faces of a photoreceptor synaptopathy”
14:30 – 15:05	Chad Grabner „Rods need a large number of primed vesicles to reliably signal 'it's dark'”
15:05 – 15:40	David Zenisek „Investigations of the role of the Ribeye PXDLS/T binding cleft in ribbon structure and function”
15:40 – 16:10	Posters and coffee break
16:10 – 18:15	Session 4: Ca²⁺ Signaling at Ribbon Synapses (Chair: Erwin Neher)
16:10 – 16:45	Stuart Johnson „A transient interest in vestibular hair cell exocytosis”
16:45 – 17:20	Jakob Neef „Nanoscale organization of the IHC presynaptic active zone“
17:20 – 17:40	Stephanie Eckrich (short talk) „The dose-dependent regulatory role of Cav1.3 channels in IHC differentiation, ribbon synapse morphology and hearing”
17:40 – 18:15	Tina Pangršič „The role of Calcium-binding proteins (CABPs) in hearing“
18:15 – 18:45	Poster session
18:45	Joint Conference Dinner at the MPIIbpc Cafeteria



Ribbon Synapses Symposium



Day 2, Tuesday, September 3rd, 2019

09:00 – 11:20	
<i>Session 5: Emerging Methods in Neuroscience (Chair: Carolin Wichmann)</i>	
09:00 – 09:35	Silvio Rizzoli „Technologies to analyze hair cell protein localization and turnover at the nanoscale”
09:35 – 10:10	Zacharie Taoufiq „Uncharted synaptic vesicular proteome”
10:10 – 10:45	Stefan Hell „MINFLUX Nanoscopy: Superresolution post Nobel”
10:45 – 11:20	Kenzo Hirose „Synaptic release sites studied by glutamate imaging techniques and superresolution microscopy”
11:20 – 11:50	
<i>Posters and coffee break</i>	
11:50 – 13:05	
<i>Session 6: Molecular Composition of Ribbon Synapses (Chair: Benjamin Cooper)</i>	
11:50 – 12:10	Jutta Meyer (short talk) „Complexins and their SNARE interactomes in retinal synapses”
12:10 – 12:45	Colin Johnson „TBA“
12:45 – 13:05	Lisa-Janina Klotz (short talk) „Expression of metabotropic glutamate receptors and cannabinoid receptors at inner hair cell ribbon synapses”
13:05 – 14:05	
<i>Lunch break</i>	
14:05 – 16:00	
<i>Session 7: Encoding of Sensory Information (Chair: Christian Vogl)</i>	
14:05 – 14:40	Timm Schubert „Horizontal cells use different synaptic sites for global and local signaling”
14:40 – 15:15	Mantas Gabrielaitis „Efficient coding at inner hair cell ribbon synapses“
15:15 – 15:35	Antoine Huet (short talk) „Optical coding using photopharmacological stimulation of ionotropic glutamate receptors in cochlear neurons”
15:35 – 16:00	
<i>Posters and coffee break</i>	
16:00 – 18:20	
<i>Session 8: Sensory Disease and Restoration (Chair: Tobias Moser)</i>	
16:00 – 16:35	Volker Busskamp „Programming human stem cells to photoreceptors“
16:35 – 17:10	Serge Picaud „Preclinical validation of visual restoration: from retinal prosthesis to optogenetic therapy“
17:10 – 17:45	Nicola Strenzke „The impact of impaired vesicle replenishment at the inner hair cell ribbon synapse on sound encoding in the central auditory pathways“
17:45 – 18:20	Qiuju Wang „Genotype and clinical phenotype correlation analysis of genetic auditory synaptopathy patients with OTOF variations“
18:20 – 18:35	
<i>Best poster award / closing remarks (TBA)</i>	