



Ribbon Synapses Symposium



Day 1, Monday, 30th Sept, 2013

08:30 – 09:00	Registration
09:00 –	Welcome to Göttingen Research Campus: Heyo Kroemer , Dean of School of Medicine
	Opening remarks: Tobias Moser
09:10 – 10:40	Opening lectures: Joshua Singer "Synaptic transmission at retinal ribbon synapses" Henrique von Gersdorff "Synaptic transmission at hair cell synapses"
10:40 – 11:10	Poster and Coffee
11:10 – 12:40	Session 1: Molecular anatomy (Chair: Carolin Wichmann)
11:10 – 11:45	Saaid Safieddine "Molecular physiology of the inner hair cell synapse: clues from hereditary deafness"
11:45 – 12:05	Hernan Lopez-Schier "The centrioles govern synaptic ribbon biogenesis in hair cells"
12:05 – 12:40	Toshisa Ohtsuka "CAST and vesicle cycling at the ribbon synapses"
12:40 – 13:40	<i>Lunch break</i>
13:40 – 14:30	<i>Poster and Coffee</i>
14:30 – 16:20	Session 2: Transmission at retinal ribbon synapses I (Chair: Henrique von Gersdorff)
14:30 – 15:05	Frank Schmitz "Membrane trafficking proteins at the photoreceptor ribbon synapse"
15:05 – 15:40	Amy Lee "Voltage-gated Ca ²⁺ channels at ribbon synapses"
15:40 – 16:15	Leon Lagnado "Gain control at the ribbon synapse of retinal bipolar cells"
16:15 – 17:00	<i>Poster and Coffee</i>
17:00 – 19:05	Session 3: Transmission at ribbon synapse of inner ear and retina (Chair: Ian Russell)
17:00 – 17:35	Felix E. Schweizer "Diversity of Hair Cells"
17:35 – 17:55	Lena Sünke Mortensen "A ribbon synapse specific complexin regulates specifically synchronous transmitter release in retinal bipolar cells"
17:55 – 18:15	Jakob Neef "Quantitative nanophysiology of presynaptic Ca ²⁺ signaling"
18:15 – 18:50	Paul A. Fuchs "Excitation of type II cochlear afferents"
	BBQ at MPlern Cafeteria
19:00 –	



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Day 2, Tuesday, 1st Oct, 2013

08:30 – 10:20	Session 4: Transmission at inner ear ribbon synapses I (Chair: Anna Lysakowski)
08:30 – 09:05	Ellen Reisinger “Effect of temperature on synapse function in otof I515T mice, a mouse model for temperature sensitive hearing impairment”
09:05 – 9:25	Albena Kantardzhieva “Quantitative analysis of ribbons, vesicles, and cisterns at the cat inner hair cell synapse: correlations with spontaneous rate”
09:25 – 9:45	Tanvi Butola “Role of Piccolo in high frequency transmission at the central auditory synapses”
09:45 – 10:20	Ruth Anne Eatock “Transmitting signals and making spikes in rodent otolith organs”
10:20 – 10:50	<i>Poster and Coffee</i>
10:50 – 12:20	Session 5: Ribbon Synapse development, structure and function(Chair: Helmut Brandstätter)
10:50 – 11:25	Petri Ala-Laurila “Vision at its ultimate limits: Does synaptic noise matter?”
11:25 – 11:45	Aaron Wong “Developmental refinement of hair cell synapses tightens the coupling of Ca ²⁺ influx to exocytosis”
11:45 – 12:20	Haruhisa Okawa “Developmental mechanisms regulating axonal connections of retinal bipolar cells”
12:20 – 13:20	<i>Lunch break</i>
13:20 – 14:20	<i>Poster and Coffee</i>
14:20 – 15:35	Session 6: Transmission at retinal ribbon synapses II (Chair: Chair: Jeong Seop Rhee)
14:20 – 14:55	David Zenisek “Ribbon and extraribbon communication between rod-bipolar cells and AII Amacrine cells”
14:55 – 15:15	Matthew Van Hook “Fast replenishment of the cone photoreceptor ribbon is mediated by Ca ²⁺ /Calmodulin and sets the filtering properties of synaptic transmission”
15:15 – 15:35	Christina Joselevitch “Direct observation of vesicle transport on the synaptic ribbon”
15:35 – 16:15	<i>Poster and Coffee</i>
16:15 – 18:20	Session 7: Transmission at inner ear ribbon synapses II (Chair: Christian Vogl)
16:15 – 16:50	Regis Nouvian “Spatio-temporal pattern of action potential firing in developing inner hair cells”
16:50 – 17:10	Natalia Revelo Nuncira “Synaptic vesicle recycling is functionally segregated from constitutive membrane trafficking in presynaptic cells that lack synaptic boutons”
17:10 – 17:45	Jutta Engel “Splice variants of Cav1.3 Ca ²⁺ channels and auxiliary alpha2delta subunits in mature mouse inner hair cells”
17:45 – 18:20	Geng-Lin Li “Cooperative synaptic vesicle release at a hair cell ribbon synapse”
	Best Poster Award Ceremony
18:20 – 18:30	



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Day 3, Wednesday, 2nd Oct, 2013

08:30 – 10:30	
<i>Session 8: Transmission at inner ear ribbon synapses III (Chair: Mark A. Rutherford)</i>	
08:30 – 09:05	Rebecca Seal “Restoration of Hearing by Viral Gene Transfer”
09:05 – 09:25	Jianxin Bao “Calcium signaling important for noise-induced loss of ribbon synapse in the cochlea”
09:25 – 09:45	Lavinia Sheets “Synaptic-ribbon size in zebrafish lateral-line hair cells influences the latency of afferent responses to stimuli”
09:45 – 10:20	Jean-Luc Puel “Low spontaneous rate auditory nerve fibers: the hidden component”
10:20 – 10:30	<i>Farewells: Helmut Brandstätter</i>
10:30 – 10:45	<i>Coffee</i>