



# Ribbon Synapses Symposium



Day 1, Monday, September 11<sup>th</sup>, 2017

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|---------------|---|
| 08:30 – 09:00 | Registration  |
| 09:00 – 09:10 | Opening remarks: Chad Grabner   |
| 09:10 – 10:45 | <i>Plenary lectures I</i>   |
| 09:10 – 09:55 | <b>Jeffrey Diamond</b><br>„Signal transfer in the rod pathway of the mouse retina”  |
| 10:00 – 10:45 | <b>Ruth Anne Eatock</b><br>„Two modes of synaptic transmission in mammalian vestibular hair cells ”   |
| 10:45 – 11:15 | <i>Posters and coffee break</i>   |
| 11:20 – 12:55 | <i>Session 1: Structure-Function of Hair Cell Ribbon Synapses (Chair: Carolin Wichmann)</i>   |
| 11:20 – 11:55 | <b>Michael Schnee</b><br>“The synaptic ribbon facilitates prolonged release at the hair cell afferent fiber synapse”  |
| 11:55 – 12:20 | <b>Katie Kindt</b><br>“Gap junction networks facilitate presynaptic activity in a select subset of lateral-line hair cells”                                 |
| 12:20 – 12:55 | <b>Hernan Lopez-Schier</b><br>“Ribbon synapses don't make sense except in the light of evolution”   |
| 12:55 – 13:55 | <i>Lunch break</i>  |
| 14:00 – 15:35 | <i>Session 2: Retinal Ribbon Release Machinery (Chair: Chad Grabner)</i>  |
| 14:00 – 14:35 | <b>Ruth Heidelberger</b><br>“Syntaxin3 and the regulation of release”   |
| 14:35 – 14:55 | <b>Nadine Ehmman</b><br>“Complexin interacts with Bruchpilot to tether synaptic vesicles to the active zone cytomatrix”                                     |
| 15:00 – 15:35 | <b>Frank Schmitz</b><br>“Some aspects on the molecular anatomy of synaptic ribbons and their role for synaptic signalling in the retina”                    |
| 15:35 – 16:05 | <i>Posters and coffee break</i>   |
| 16:10 – 17:40 | <i>Session 3: Emerging Methods in Synaptic Neuroscience (Chair: Benjamin Cooper)</i>  |
| 16:10 – 16:45 | <b>Thirumalini Vaithianathan</b><br>“Synaptic Vesicle Dynamics At Single Ribbon Active Zone”  |
| 16:45 – 17:05 | <b>Lavinia Sheets</b><br>““Noise-induced Synaptopathy” in Fish: Mechanical Overstimulation of Zebrafish Lateral-line Organ leads to Hair-Cell Synapse Loss“ |
| 17:05 – 17:40 | <b>Martin Heine</b><br>„Contribution of calcium channel mobility to synaptic transmission“  |
| 17:40 – 18:45 | <i>Poster session</i>   |
| 18:45         | <i>BBQ at MPIem Cafeteria</i>   |



# Ribbon Synapses Symposium



Day 2, Tuesday, September 12<sup>th</sup>, 2017

|               |   |
|---------------|---|
| 09:00 – 10:30 | <i>Plenary lectures II</i>  |
| 09:00 – 09:45 | <b>Stephan Sigrist</b><br>“Stable positioning of Unc13 isoforms to synchronize and diversify neurotransmission”           |
| 09:45 – 10:30 | <b>Jonathan Demb</b><br>“Synaptic mechanisms for visual computation in the retina”  |
| 10:30 – 11:00 | <i>Posters and coffee break</i>   |
| 11:00 – 12:35 | <i>Session 4: Transmission at Hair Cell Ribbon Synapses (Chair: Christian Vogl)</i>                                       |
| 11:00 – 11:35 | <b>Cole Graydon</b><br>“In Vivo Mobility and Turnover of Ribeye and Synaptic Vesicles at Zebrafish Ribbon Synapses”       |
| 11:35 – 11:55 | <b>Lina Jaime Tobon</b><br>„Ca <sup>2+</sup> dependence of synaptic transmission of IHC in near physiological conditions“ |
| 12:00 – 12:35 | <b>Henrique von Gersdorff</b><br>„Hair cell ribbon synapses tuned to low-frequency sounds“                                |
| 12:35 – 13:35 | <i>Lunch break</i>  |
| 13:40 – 15:15 | <i>Session 5: Transmission at Retinal Ribbon Synapses (Chair: Joshua Singer)</i>  |
| 13:40 – 14:15 | <b>Alexandra Koschak</b><br>“Role of Ca <sub>v</sub> 1.4 L-type calcium in transmission at retinal ribbon synapses”       |
| 14:15 – 14:35 | <b>Norbert Babai</b><br>„Exploring cone photoreceptor ribbon synaptic function using a mutant mouse model“                |
| 14:40 – 15:15 | <b>Margaret Veruki</b><br>“Extrasynaptic NMDA receptors on AII and A17 amacrine cells”                                    |
| 15:15 – 16:15 | <i>Session 6: In Memoriam: Gary Matthews</i>  |
| 15:15 – 16:15 | <b>David Zenisek</b>  |
| 16:15 – 18:15 | <i>Posters and beverages</i>  |
| 18:15 – 18:30 | <i>Best poster award / closing remarks</i>  |