

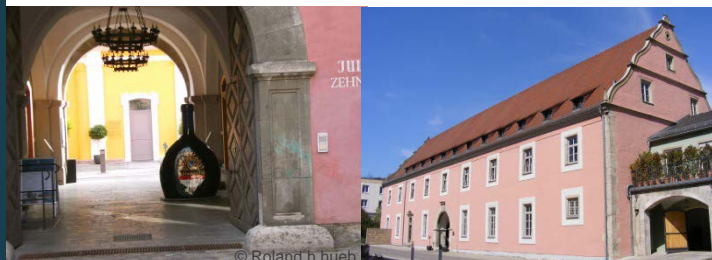
RECEPTORLIGHT uses novel and exceedingly promising techniques of „high-end“ LIGHT MICROSCOPY to analyze the FUNCTION of membrane receptors by gaining new spatial and temporal information.

The 1st ReceptorLight Symposium brings together international experts in high-end microscopy and receptor science to discuss latest results and future directions of receptor research.

LOCATION

Conference Center Juliusspital

Klinikstraße 1
97070 Würzburg



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ReceptorLight Symposium No. 1

HIGH-END LIGHT MICROSCOPY ELUCIDATES MEMBRANE RECEPTOR FUNCTION

Würzburg, June 7th to 9th, 2017

Organizers: Klaus Benndorf
Markus Sauer



RECEPTORLIGHT SYMPOSIUM ON HIGH-END LIGHT MICROSCOPY ELUCIDATES MEMBRANE RECEPTOR FUNCTION, JUNE 7th - 9th, 2017

Wednesday, June 7th

12:00	Registration & Snacks
13:00 -13:15	Klaus Benndorf, Jena <i>Opening/Welcome</i>
Session I	Chair: Klaus Benndorf, Jena
13:15 -14:00	William N. Zagotta, Seattle <i>Molecular mechanisms of regulation of ion channels by intracellular domains</i>
14:00 -14:45	Martin Biel, Munich <i>Two-pore cation channels of the endolysosomal system</i>
14:45 -15:00	Christian Karras / Jessica Tröger, Jena <i>A fast multi-channel structured illumination microscope for enlightening inhibitory neurotransmitter receptor organization and dynamics</i>
15:00 -15:30	Coffee & Tea
Session II	Chair: Markus Sauer, Würzburg
15:30 -16:15	Claus Seidel, Düsseldorf <i>Quantitative FRET image spectroscopy and integrative modeling unravel the structure and dynamics of biomolecular systems</i>
16:15 -17:00	Christian Eggeling, Oxford <i>Membrane bioactivity: New insights from super-resolution STED(-FCS) microscopy</i>
17:00 -17:15	Thomas Heitkamp, Jena <i>Purification of active mNeonGreen-tagged neurotensin receptor 1 and FRET-based analysis of ligand binding</i>
17:15 -17:45	Coffee & Tea
17:45 -18:30	Erwin Neher, Göttingen <i>Short-term synaptic plasticity: Katz's concept in the light of recent results from the Calyx of Held</i>
18:30-	Reception & Poster Session

Thursday, June 8th

Session III	Chair: Manfred Heckmann, Würzburg
9:00 -9:45	Horst Vogel, Lausanne <i>Transmembrane signaling: From single cells to single molecules</i>
9:45 -10:30	Daniel Choquet, Bordeaux <i>Nanoscale organization of glutamate receptors and synaptic function</i>
10:30 -10:45	Gerti Beliu, Würzburg <i>Unnatural amino acids for live cell labeling and superresolution microscopy</i>
10:45 -11:15	Coffee & Tea
Session IV	Chair: Britta Qualmann, Jena
11:15 -12:00	Istvan Katona, Budapest <i>Cell-type-specific correlated confocal and super-resolution imaging in brain circuits by VividSTORM</i>
12:00 -12:45	Dion Dickman, Los Angeles <i>Active zones as substrates for the homeostatic modulation of synaptic strength</i>
12:45 -13:00	Andrea Kliewer, Jena <i>Carboxyl-terminal multisite phosphorylation regulates μ-opioid receptor desensitization and tolerance</i>
13:00 -14:30	Lunch & Poster Session
Session V	Chair: Katrin Heinze, Würzburg
14:30 -15:15	Viacheslav Nikolaev, Hamburg <i>FRET and scanning ion conductance microscopy to study receptor/cyclic nucleotide signaling in microdomains</i>
15:15 -15:45	Klaus Benndorf, Jena <i>Activation gating in HCN2 channels evoked by voltage and cAMP</i>
15:45 -16:15	Tobias Langenhan, Leipzig <i>Converting force into signal: Metabotropic mechanosensing through adhesion GPCRs</i>
16:15 -16:45	Coffee & Tea

Session VI Chair: **Carsten Hoffmann, Jena**

16:45 -17:15	Martin Lohse, Berlin <i>Spatio-temporal signalling of G-protein - coupled receptors</i>
17:15 -17:45	Markus Sauer, Würzburg <i>Super-resolution microscopy coming of age: from concepts to biomedical applications</i>
17:45 -18:15	Dietmar Geiger, Würzburg <i>Resolving dynamic interactions within the Arabidopsis guard cell hormone-receptor anion-channel complex</i>
19:30 -22:30	Conference Dinner <i>On board the ship "Alte Liebe". Meeting/embarkation point : 19:15 Alter Kranen (Kranenkai 1, at a red-yellow kiosk)</i>

Friday, June 9th

Session VII	Chair: Jana Kusch, Jena
9:00 -9:45	Rikard Blunck, Montréal <i>Using fluorescence spectroscopy to study structure-function relations of ion channels</i>
9:45 -10:30	Andreas Reiner, Bochum <i>Optical control of glutamate receptors: Mechanistic insights and application to synaptic signaling</i>
10:30 -11:00	Coffee & Tea
Session VIII	Chair: Robert Kittel, Würzburg
11:00 -11:30	Mike Heilemann, Frankfurt <i>Counting subunits within receptor complexes using single-molecule localization microscopy</i>
11:30 -12:00	Katrin Heinze, Würzburg <i>Boosting membrane imaging and spectroscopy by optoplasmonics</i>
12:00 -12:30	Carsten Hoffmann, Jena <i>Photopharmacology meets muscarinic receptors</i>
12:30 -12:45	Klaus Benndorf, Jena; Markus Sauer, Würzburg <i>Closing Remarks</i>
12:45	Light Lunch