Universitätsmedizin Göttingen
Publikationen und Hochschulschriften 2014
Neuro- und Sinnesphysiologie

Journalbeiträge

1. Janc OA, Müller M (2014) The free radical scavenger Trolox dampens neuronal hyperexcitability, reinstates synaptic plasticity, and improves hypoxia tolerance in a mouse model of Rett syndrome. FRONT CELL NEUROSCI 8: 56, doi: 10.3389/fncel.2014.00056
2. Kamin D, Revelo NH, Rizzoli SO (2014) FM dye photo-oxidation as a tool for monitoring membrane recycling in inner hair cells. PLOS ONE 9(2): e88353, doi: 10.1371/journal.pone.0088353
3. Lázaro DF, Rodrigues EF, Langohr R, Shahpasandzadeh H, Ribeiro T, Guerreiro P, Gerhardt E, Kröhnert K, Klucken J, Pereira MD, Popova B, Kruse N, Mollenhauer B, Rizzoli SO, Braus GH, Danzer KM, Outeiro TF (2014) Systematic comparison of the effects of alpha-synuclein mutations on its oligomerization and aggregation. PLOS GENET 10(11): e1004741, doi: 10.1371/journal.pgen.1004741
4. Müller M, Can K (2014) Aberrant redox homoeostasis and mitochondrial dysfunction in Rett syndrome. BIOCHEM SOC T 42(4): 959-64, doi: 10.1042/BST20140071
5. Revelo NH, Kamin D, Truckenbrodt S, Wong AB, Reuter-Jessen K, Reisinger E, Moser T, Rizzoli SO (2014) A new probe for super-resolution imaging of membranes elucidates trafficking pathways. J CELL BIOL 205(4): 591-606, doi: 10.1083/jcb.201402066
6. Richter DW, Smith JC (2014) Respiratory rhythm generation in vivo. PHYSIOLOGY 29(1): 58-71, doi: 10.1152/physiol.00035.2013
7. Rizzoli SO (2014) Synaptic vesicle recycling: steps and principles. EMBO J 33(8): 788-822, doi: 10.1002/embj.201386357
8. Saka SK, Honigmann A, Eggeling C, Hell SW, Lang T, Rizzoli SO (2014) Multi-protein assemblies underlie the mesoscale organization of the plasma membrane. NAT COMMUN 5: 4509, doi: 10.1038/ncomms5509
9. Saka SK, Vogts A, Kröhnert K, Hillion F, Rizzoli SO, Wessels JT (2014) Correlated optical and isotopic nanoscopy. NAT COMMUN 5: 3664, doi: 10.1038/ncomms4664
10. Shevtsova NA, Büsselberg D, Molkov YI, Bischoff AM, Smith JC, Richter DW, Rybak IA (2014) Effects of glycinergic inhibition failure on respiratory rhythm and pattern generation. PROG BRAIN RES 209: 25-38, doi: 10.1016/B978-0-444-63274-6.00002-3
11. Suwa B, Bock N, Preusse S, Rothenberger A, Manzke T (2014) Distribution of serotonin 4(a) receptors in the juvenile rat brain and spinal cord. J CHEM NEUROANAT 55: 67-77, doi: 10.1016/j.jchemneu.2013.12.004
12. Toloe J, Mollajew R, Kügler S, Mironov SL (2014) Metabolic differences in hippocampal 'Rett' neurons revealed by ATP imaging. MOL CELL NEUROSCI 59: 47-56, doi: 10.1016/j.mcn.2013.12.008
13. Truckenbrodt S, Rizzoli SO (2014) Spontaneous vesicle recycling in the synaptic bouton. FRONT CELL NEUROSCI 8: 409, doi: 10.3389/fncel.2014.00409
14. Weller J, Kizina KM, Can K, Bao G, Müller M (2014) Response properties of the genetically encoded optical H2O2 sensor HyPer. FREE RADICAL BIO MED 76: 227-41, doi: 10.1016/j.freeradbiomed.2014.07.045
15. Wilhelm BG, Mandad S, Truckenbrodt S, Kröhnert K, Schäfer C, Rammner B, Koo SJ, Claßen GA, Krauss M, Haucke V, Urlaub H, Rizzoli SO (2014) Composition of isolated synaptic boutons reveals the amounts of vesicle trafficking proteins. SCIENCE 344(6187): 1023-8, doi: 10.1126/science.1252884
16. Zhang WI, Röhse H, Rizzoli SO, Opazo F (2014) Fluorescent in situ hybridization of synaptic proteins imaged with super-resolution STED microscopy. MICROSC RES TECHNIQ 77(7): 517-27, doi: 10.1002/jemt.22367

Buchbeiträge

1. Opazo F (2014) Probing Biological Samples in High-Resolution Microscopy: Making Sense of Spots. In: Fornasiero EF, Rizzoli SO (Hrsg.) Super-Resolution Microscopy Techniques in the Neurosciences. Humana Press, New York, 369-386
2. Rizzoli SO, Denker A (2014) Photooxidation Microscopy: Bridging the Gap between Fluorescence and Electron Microscopy. In: Fornasiero EF, Rizzoli SO (Hrsg.) Super-Resolution Microscopy Techniques in the Neurosciences. Humana Press, New York, 325-342
3. Saka SK (2014) Light Microscopy and Resolution. In: Fornasiero EF, Rizzoli SO (Hrsg.) Super-Resolution Microscopy Techniques in the Neurosciences. Humana Press, New York, 1-12
4. Saka SK (2014) Super-Resolution Microscopy: Principles, Techniques and Application. In: Fornasiero EF, Rizzoli SO (Hrsg.) Super-Resolution Microscopy: Techniques in the Neurosciences. Humana Press, New York, 13-40
5. Wilhelm BG, Kamin D (2014) Application of Real-Time STED Imaging to Synaptic Vesicle Motion. In: Fornasiero EF, Rizzoli SO (Hrsg.) Super-Resolution Microscopy Techniques in the Neurosciences. Humana Press, New York, 73-86

Habilitationen

1. Niebert M (2014) Auswirkungen von Rezeptor-Co-Expression und Oligomerisierung auf das Signalverhalten von Serotonin-Rezeptoren. Habilitation Universität Göttingen.

Medizinische Dissertationen

1. Hirt UG, Dr. med. (2014) Extramitochondriale und mitochondriale Produktion reaktiver Sauerstoffspezies im Hippokampus MeCP2-defizienter Mäuse. Dissertation Universität Göttingen.

Naturwiss. u.a. nichtmed. Diss.

1. Revelo NN, Dr. rer. nat. (2014) A novel membrane-binding probe for the morphological and molecular characterization of synaptic vesicle recycling pathways. Dissertation Göttingen.
2. Saka KS, Dr. rer. nat. (2014) Studying Protein Organization in Cellular Membranes by High-Resolution Microscopy. Dissertation Göttingen.

Masterarbeiten

1. Maidorn M, MSc (2014) Design of new affinity probes for super resolution microscopy. Masterarbeit Universität Göttingen.