

Journalbeiträge

1. Dudanova I, Sedej S, Ahmad M, Masius H, Sargsyan V, Zhang W, Riedel D, Angenstein F, Schild D, Rupnik M, Missler M (2006) Important contribution of alpha-neurexins to Ca<sup>2+</sup>-triggered exocytosis of secretory granules. *J NEUROSCI*, 26(41): 10599-613.
2. Dutschmann M, Herbert H (2006) The Kölliker-Fuse nucleus gates the postinspiratory phase of the respiratory cycle to control inspiratory off-switch and upper airway resistance in rat. *EUR J NEUROSCI*, 24(4): 1071-84.
3. Foster KA, Galeffi F, Gerich FJ, Turner DA, Müller M (2006) Optical and pharmacological tools to investigate the role of mitochondria during oxidative stress and neurodegeneration. *PROG NEUROBIOL*, 79(3): 136-71.
4. Gerich FJ, Hepp S, Probst I, Müller M (2006) Mitochondrial inhibition prior to oxygen-withdrawal facilitates the occurrence of hypoxia-induced spreading depression in rat hippocampal slices. *J NEUROPHYSIOL*, 96(1): 492-504.
5. Hirzel K, Müller U, Latal AT, Hülsmann S, Grudzinska J, Seeliger MW, Betz H, Laube B (2006) Hyperekplexia phenotype of glycine receptor alpha1 subunit mutant mice identifies Zn(2+) as an essential endogenous modulator of glycinergic neurotransmission. *NEURON*, 52(4): 679-90.
6. Kaiser M, Maletzki I, Hülsmann S, Holtmann B, Schulz-Schaeffer W, Kirchhoff F, Bähr M, Neusch C (2006) Progressive loss of a glial potassium channel (KCNJ10) in the spinal cord of the SOD1 (G93A) transgenic mouse model of amyotrophic lateral sclerosis. *J NEUROCHEM*, 99(3): 900-12.
7. Lazarov N, Rozloznik M, Reindl S, Rey-Ares V, Dutschmann M, Gratzl M (2006) Expression of histamine receptors and effect of histamine in the rat carotid body chemoafferent pathway. *EUR J NEUROSCI*, 24(12): 3431-44.
8. Mironov SL (2006) Spontaneous and evoked neuronal activities regulate movements of single neuronal mitochondria. *SYNAPSE*, 59(7): 403-11.
9. Mironov SL, Symonchuk N (2006) ER vesicles and mitochondria move and communicate at synapses. *J CELL SCI*, 119(Pt 23): 4926-34.
10. Neusch C, Papadopoulos N, Müller M, Maletzki I, Winter SM, Hirrlinger J, Handschuh M, Bähr M, Richter DW, Kirchhoff F, Hülsmann S (2006) Lack of the Kir4.1 channel subunit abolishes K<sup>+</sup> buffering properties of astrocytes in the ventral respiratory group: impact on extracellular K<sup>+</sup> regulation. *J NEUROPHYSIOL*, 95(3): 1843-52.
11. Paulus W, Schomburg ED (2006) Dopamine and the spinal cord in restless legs syndrome: does spinal cord physiology reveal a basis for augmentation? *SLEEP MED REV*, 10(3): 185-96.
12. Piechotta K, Dudanova I, Missler M (2006) The resilient synapse: insights from genetic interference of synaptic cell adhesion molecules. *CELL TISSUE RES*, 326(2): 617-42.
13. Schomburg ED, Steffens H, Maznychenko AV, Pilyavskii AI, Hellstrom F, Kostyukov AI, Maisky VA (2006) Acute muscle inflammation enhanced the monosynaptic reflexes and c-fos expression in the feline spinal cord. *EUR J PAIN*, 11: 579-586.
14. Sons MS, Busche N, Strenzke N, Moser T, Ernsberger U, Mooren FC, Zhang W, Ahmad M, Steffens H, Schomburg ED, Plomp JJ, Missler M (2006) alpha-Neurexins are required for efficient transmitter release and synaptic homeostasis at the mouse neuromuscular junction. *NEUROSCIENCE*, 138(2): 433-46.
15. Swan LE, Schmidt M, Schwarz T, Ponimaskin E, Prange U, Boeckers T, Thomas U, Sigrist SJ (2006) Complex interaction of Drosophila GRIP PDZ domains and Echinoid during muscle morphogenesis. *EMBO J*, 25(15): 3640-51.
16. Szöke K, Härtel K, Grass D, Hirrlinger PG, Hirrlinger J, Hülsmann S (2006) Glycine transporter 1 expression in the ventral respiratory group is restricted to protoplasmic astrocytes. *BRAIN RES*, 1119(1): 182-9.
17. Varoqueaux F, Aramuni G, Rawson RL, Mohrmann R, Missler M, Gottmann K, Zhang W, Südhof TC, Brose N (2006) Neuroligins determine synapse maturation and function. *NEURON*, 51(6): 741-54.
18. Weishaupt JH, Lewinski F, Bähr M, Keller B (2006) Motoneuron disease and ALS: From molecular analysis to novel clinical therapies. *Neuroforum*, 4: 252-259.
19. Zhao MG, Hülsmann S, Winter SM, Dutschmann M, Richter DW (2006) Calcium-regulated potassium currents secure respiratory rhythm generation after loss of glycinergic inhibition. *EUR J NEUROSCI*, 24(1): 145-54.

**Abteilung "Neuro- und Sinnesphysiologie"**

**Buchbeiträge**

1. Büschges A, Duch C, Grillner S, Isa T, Lansner A, Pflüger H J, Richter DW, Sillar KT, Smith JC, Sparks DL (2006) Microcircuits in the Motor System. In: Grillner S, Graybiel AM (Hg.) Microcircuits: The Interface between Neurons and Global Brain Function. MIT Press, Cambridge, 77-103.
2. Fairless R, Reissner C, Missler M (2006) Role of neuroligin binding to neuroligins in synaptic organization. In: Dityatev A, El\_Husseini A (Hg.) Molecular Mechanisms of Synaptogenesis. Springer Verlag, New York, 111 - 124.

**Medizinische Dissertationen**

1. Graß D, Dr. med., Charakterisierung von Astrozyten im respiratorischen Netzwerk. Dissertation Universität Göttingen 2006.
2. Papadopoulos N, Dr. med., Über die physiologische Rolle der Kalium-Kanaluntereinheit Kir4.1 in den Astrozyten der Ventralen Respiratorischen Gruppe. Dissertation Universität Göttingen 2006.

**Zahnmedizinische Dissertationen**

1. Elsner von der Malsburg S, Dr. med. dent., Die Regeneration im peripheren und zentralen Nervensystem: Morphologie, Physiologie und Verhalten. Dissertation Universität Göttingen 2006.

**Naturwiss. u.a. nichtmed. Diss.**

1. Balakrishnan S, Dr. rer. nat., The Mitochondrial Role in Calcium Metabolism and Differential Calcium Buffering Capacity of Amyotrophic Lateral Sclerosis (ALS Vulnerable and Resistant Motoneurons from Mice. Dissertation Universität Göttingen 2006.
2. Mohiuddin A, PhD, The role of alpha-neurexins in Ca<sup>2+</sup>-dependent synaptic transmission and plasticity. Dissertation Universität Göttingen 2006.

**Masterarbeiten**

1. Eismann E (2006) Generation and in vitro Characterization of EGFP-tagged Neurexophilin 3 and Neurexophilin 4. Universität Göttingen, MSc.