

**Abteilung "Neuro- und Sinnesphysiologie"**

**Journalbeiträge**

1. Beglopoulos V, Montag-Sallaz M, Rohlmann A, Piechotta K, Ahmad M, Montag D, Missler M (2005) Neurexophilin 3 is highly localized in cortical and cerebellar regions and is functionally important for sensorimotor gating and motor coordination. *MOL CELL BIOL*, 25(16): 7278-88.
2. Dutschmann M, Paton JF (2005) Dynamic changes in glottal resistance during exposure to severe hypoxia in neonatal rats in situ. *PEDIATR RES*, 58(2): 193-8.
3. Hepp S, Gerich FJ, Müller M (2005) Sulfhydryl oxidation reduces hippocampal susceptibility to hypoxia-induced spreading depression by activating BK channels. *J NEUROPHYSIOL*, 94(2): 1091-103.
4. Kvachnina E, Liu G, Dityatev A, Renner U, Dumuis A, Richter DW, Dityateva G, Schachner M, Voyno-Yasenetskaya TA, Ponimaskin EG (2005) 5-HT<sub>7</sub> receptor is coupled to G alpha subunits of heterotrimeric G12-protein to regulate gene transcription and neuronal morphology. *J NEUROSCI*, 25(34): 7821-30.
5. Mironov SL, Langohr K (2005) Mechanisms of Na<sup>+</sup> and Ca<sup>2+</sup> influx into respiratory neurons during hypoxia. *NEUROPHARMACOLOGY*, 48(7): 1056-65.
6. Mironov SL, Hartelt N, Ivannikov MV (2005) Mitochondrial K(ATP) channels in respiratory neurons and their role in the hypoxic facilitation of rhythmic activity. *BRAIN RES*, 1033(1): 20-7.
7. Mironov SL, Ivannikov MV, Johansson M (2005) [Ca<sup>2+</sup>]<sub>i</sub> signaling between mitochondria and endoplasmic reticulum in neurons is regulated by microtubules. From mitochondrial permeability transition pore to Ca<sup>2+</sup>-induced Ca<sup>2+</sup> release. *J BIOL CHEM*, 280(1): 715-21.
8. Müller M, Mironov SL, Ivannikov MV, Schmidt J, Richter DW (2005) Mitochondrial organization and motility probed by two-photon microscopy in cultured mouse brainstem neurons. *EXP CELL RES*, 303(1): 114-27.
9. Paarmann I, Frermann D, Keller BU, Villmann C, Breitinger HG, Hollmann M (2005) Kinetics and subunit composition of NMDA receptors in respiratory-related neurons. *J NEUROCHEM*, 93(4): 812-24.
10. Ponimaskin E, Dumuis A, Gaven F, Barthet G, Heine M, Glebov K, Richter DW, Oppermann M (2005) Palmitoylation of the 5-hydroxytryptamine<sub>4a</sub> receptor regulates receptor phosphorylation, desensitization, and beta-arrestin-mediated endocytosis. *MOL PHARMACOL*, 67(5): 1434-43.
11. Qin G, Schwarz T, Kittel RJ, Schmid A, Rasse TM, Kappei D, Ponimaskin E, Heckmann M, Sigrist SJ (2005) Four different subunits are essential for expressing the synaptic glutamate receptor at neuromuscular junctions of *Drosophila*. *J NEUROSCI*, 25(12): 3209-18.
12. Ritter B, Ochojski M, Kühn T, Schwarzacher SW, Zhang W (2005) Subcellular vesicular aggregations of GABAB R1a and R1b receptors increase with age in neurons of the developing mouse brain. *CELL TISSUE RES*, 319(2): 181-9.
13. Spielbauer B, Stahl F (2005) Impact of microarray technology in nutrition and food research. *MOL NUTR FOOD RES*, 49(10): 908-17.
14. von Lewinski F, Keller BU (2005) Ca<sup>2+</sup>, mitochondria and selective motoneuron vulnerability: implications for ALS. *TRENDS NEUROSCI*, 28(9): 494-500.
15. von Lewinski F, Keller BU (2005) Mitochondrial Ca<sup>2+</sup> buffering in hypoglossal motoneurons from mouse. *NEUROSCI LETT*, 380(3): 203-8.
16. Zhang W, Rohlmann A, Sargsyan V, Aramuni G, Hammer RE, Südhof TC, Missler M (2005) Extracellular domains of alpha-neurexins participate in regulating synaptic transmission by selectively affecting N- and P/Q-type Ca<sup>2+</sup> channels. *J NEUROSCI*, 25(17): 4330-42.

**Buchbeiträge**

1. Müller M (2005) Hypoxic responses of central neurons and the role of mitochondria as metabolic sensors. In: Pantalai SG (Hg.) *Recent Res Devel Physiol* 3. Research Signpost Verlag, Kerala, 59-90.
2. Zippel HP, Dolle H, Foitzik M, Hamadeh A, Lüthje LGC, Möller-de-Beer AM, Köhnke R (2005) In vivo recordings from single olfactory sensory neurons in goldfish (*Carassius auratus*) during application of olfactory stimuli. In: Reutter K, Kapoor BG (Hg.) *Fish Chemosenses*. Science Publisher Verlag, Enfield USA / Plymouth UK, 87-110.
3. Zippel HP, Lüthje LGC, Albrecht B, Conze C, Hassenius N, Jakob U, Kokemüller A, Rindermann K, Willms HG (2005) Olfactory cross-adaptation: not a peripheral but a general phenomenon. In: Reutter K, Kapoor BG (Hg.) *Fish Chemosenses*. Science Publisher Verlag, Enfield USA / Plymouth UK, 111-31.

**Abteilung "Neuro- und Sinnesphysiologie"**

**Habilitationen**

1. Hülsmann S, Über die Bedeutung der Neuroglia für die synaptische Transmission rhythmisch innervierter Neurone der Medulla oblongata. Habilitation Universität Göttingen 2005.

**Medizinische Dissertationen**

1. Kühn T, Dr. med., Lokalisation und morphometrische Bestimmung des GABA B-Rezeptors im Gehirn der Maus während der postnatalen Entwicklung. Dissertation Universität Göttingen 2005.
2. Prange U, Dr. med., Funktionelle Charakterisierung des Glutamaterezeptor-Bindeprotein-Homologen in der Fruchtfliege *Drosophila melanogaster*. Dissertation Universität Göttingen 2005.
3. Usher J, Dr. med., Die funktionelle Entwicklung intrazellulärer Calciumspeicher in neuronalen Stamm- und Vorläuferzellen in vitro. Dissertation Universität Göttingen 2005.