

Journalbeiträge

1. Dutschmann M, Waki H, Manzke T, Simms AE, Pickering AE, Richter DW, Paton JFR (2009) The potency of different serotonergic agonists in counteracting opioid evoked cardiorespiratory disturbances. *Philos T R Soc B (Internet-Ausgabe)*, 364(1529): 2611-23.
2. Dutschmann M, Mörschel M, Rybak IA, Dick TE (2009) Learning to breathe: control of the inspiratory-expiratory phase transition shifts from sensory- to central-dominated during postnatal development in rats. *J Physiol-London (Internet-Ausgabe)*, 587(Pt 20): 4931-48.
3. Esposito A, Schlachter S, Schierle GSK, Elder AD, Diaspro A, Wouters FS, Kaminski CF, Iliev AI (2009) Quantitative fluorescence microscopy techniques. *Methods Mol Biol*, 586: 117-42.
4. Falley K, Schütt J, Iglauer P, Menke K, Maas C, Kneussel M, Kindler S, Wouters FS, Richter D, Kreienkamp HJ (2009) Shank1 mRNA: dendritic transport by kinesin and translational control by the 5'untranslated region. *Traffic (Internet-Ausgabe)*, 10(7): 844-57.
5. Fischer M, Reuter J, Gerich Florian J, Hildebrandt B, Hägele S, Katschinski D, Müller M (2009) Enhanced hypoxia susceptibility in hippocampal slices from a mouse model of rett syndrome. *J NEUROPHYSIOL*, 101(2): 1016-32.
6. Fuchs YF, Eisler SA, Link G, Schlicker O, Bunt G, Pfizenmaier K, Hausser A (2009) A Golgi PKD activity reporter reveals a crucial role of PKD in nocodazole-induced Golgi dispersal. *Traffic (Internet-Ausgabe)*, 10(7): 858-67.
7. Funke F, Kron M, Dutschmann M, Müller M (2009) Infant brain stem is prone to the generation of spreading depression during severe hypoxia. *J NEUROPHYSIOL*, 101(5): 2395-410.
8. Gerich FJ, Funke F, Hildebrandt B, Fasshauer M, Müller M (2009) H(2)O(2)-mediated modulation of cytosolic signaling and organelle function in rat hippocampus. *Pflug Arch Eur J Phy (Internet-Ausgabe)*, 458(5): 937-52.
9. Gralle M, Botelho MG, Wouters FS (2009) Neuroprotective secreted amyloid precursor protein acts by disrupting amyloid precursor protein dimers. *J BIOL CHEM*, 284(22): 15016-25.
10. Guenther U, Manzke T, Wrigge H, Dutschmann M, Zinserling J, Putensen C, Hoeft A (2009) The counteraction of opioid-induced ventilatory depression by the serotonin 1A-agonist 8-OH-DPAT does not antagonize antinociception in rats in situ and in vivo. *Anesth Analg*, 108(4): 1169-76.
11. Härtel K, Schnell C, Hülsmann S (2009) Astrocytic calcium signals induced by neuromodulators via functional metabotropic receptors in the ventral respiratory group of neonatal mice. *GLIA*, 57(8): 815-27.
12. Heck C, Kunst M, Härtel K, Hülsmann S, Heinrich R (2009) In vivo labeling and in vitro characterisation of central complex neurons involved in the control of sound production. *J NEUROSCI METH*, 183(2): 202-12.
13. Iliev Asparouh I, Djannatian JR, Opazo F, Gerber J, Nau R, Mitchell Timothy J, Wouters Fred S (2009) Rapid microtubule bundling and stabilization by the *Streptococcus pneumoniae* neurotoxin pneumolysin in a cholesterol-dependent, non-lytic and Src-kinase dependent manner inhibits intracellular trafficking. *Mol Microbiol (Internet-Ausgabe)*, 71(2): 461-77.
14. Jaiswal MK, Keller Bernhard U (2009) Cu/Zn superoxide dismutase typical for familial amyotrophic lateral sclerosis increases the vulnerability of mitochondria and perturbs Ca²⁺ homeostasis in SOD1G93A mice. *Mol Pharmacol (Internet-Ausgabe)*, 75(3): 478-89.
15. Jaiswal MK, Zech WD, Goos M, Leutbecher C, Ferri A, Zippelius A, Carri MT, Nau R, Keller BU (2009) Impairment of mitochondrial calcium handling in a mtSOD1 cell culture model of motoneuron disease. *BMC NEUROSCI*, 10: 64.
16. Kvachnina E, Dumuis A, Wlodarczyk J, Renner U, Cochet M, Richter DW, Ponimaskin E (2009) Constitutive Gs-mediated, but not G12-mediated, activity of the 5-hydroxytryptamine 5-HT₇(a) receptor is modulated by the palmitoylation of its C-terminal domain. *BIOCHIM BIOPHYS ACTA*, 1793(11): 1646-55.
17. Manzke T, Dutschmann M, Schlaf G, Mörschel M, Koch UR, Ponimaskin E, Bidon O, Lalley PM, Richter DW (2009) Serotonin targets inhibitory synapses to induce modulation of network functions. *Philos T R Soc B (Internet-Ausgabe)*, 364(1529): 2589-602.
18. Medrihan L, Rohlmann A, Fairless R, Andrae J, Döring M, Missler M, Zhang W, Kilimann MW (2009) Neurobeachin, a protein implicated in membrane protein traffic and autism, is required for the formation and functioning of central synapses. *J Physiol-London (Internet-Ausgabe)*, 587(Pt 21): 5095-106.
19. Mironov (2009) Complexity of mitochondrial dynamics in neurons and its control by ADP produced during synaptic activity. *Int J Biochem Cell Biol (Internet-Ausgabe)*, 41(10): 2005-14.
20. Mironov SL, Skorova E, Hartelt N, Mironova LA, Hasan MT, Kügler S (2009) Remodelling of the respiratory network in a mouse model of Rett syndrome depends on brain-derived neurotrophic factor regulated slow calcium buffering. *J Physiol-London (Internet-Ausgabe)*, 587(Pt 11): 2473-85.
21. Mironov SL, Skorova E, Taschenberger G, Hartelt N, Nikolaev VO, Lohse MJ, Kügler S (2009) Imaging cytoplasmic cAMP in mouse brainstem neurons. *BMC NEUROSCI*, 10: 29.
22. Mironov S (2009) Respiratory circuits: function, mechanisms, topology, and pathology. *NEUROSCIENTIST*, 15(2): 194-208.

23. Mörschel M, Dutschmann M (2009) Pontine respiratory activity involved in inspiratory/expiratory phase transition. *Philos T R Soc B (Internet-Ausgabe)*, 364(1529): 2517-26.
24. Papusheva E, Mello de Queiroz F, Dalous J, Han Y, Esposito A, Jares-Erijmanxa EA, Jovin TM, Bunt G (2009) Dynamic conformational changes in the FERM domain of FAK are involved in focal-adhesion behavior during cell spreading and motility. *J CELL SCI*, 122(Pt 5): 656-66.
25. Pouloupoulos A, Aramuni G, Meyer G, Soykan T, Hoon M, Papadopoulos T, Zhang M, Paarmann I, Fuchs C, Harvey K, Jedlicka P, Schwarzacher SW, Betz H, Harvey RJ, Brose N, Zhang W, Varoqueaux F (2009) Neuroligin 2 drives postsynaptic assembly at perisomatic inhibitory synapses through gephyrin and collybistin. *Neuron (Internet-Ausgabe)*, 63(5): 628-42.
26. Rozloznik M, Paton Julian FR, Dutschmann M (2009) Repetitive paired stimulation of nasotrigeminal and peripheral chemoreceptor afferents cause progressive potentiation of the diving bradycardia. *AM J PHYSIOL-REG I*, 296(1): R80-7.
27. Streckfuss-Bömeke K, Vlasov A, Hülsmann S, Yin D, Nayernia K, Engel W, Hasenfuss G, Guan K (2009) Generation of functional neurons and glia from multipotent adult mouse germ-line stem cells. *STEM CELL RES*, 2(2): 139-54.
28. Wagner OI, Esposito A, Köhler B, Chen CW, Shen CP, Wu GH, Butkevich E, Mandalapu S, Wenzel D, Wouters FS, Klopfenstein DR (2009) Synaptic scaffolding protein SYD-2 clusters and activates kinesin-3 UNC-104 in *C. elegans*. *P Natl Acad Sci Usa (Internet-Ausgabe)*, 106(46): 19605-10.
29. Winter SM, Fresemann J, Schnell C, Oku Y, Hirrlinger J, Hülsmann S (2009) Glycinergic interneurons are functionally integrated into the inspiratory network of mouse medullary slices. *Pflug Arch Eur J Phy (Internet-Ausgabe)*, 458(3): 459-69.
30. Woehler A, Ponimaskin EG (2009) G protein--mediated signaling: same receptor, multiple effectors. *Curr Mol Pharmacol*, 2(3): 237-48.
31. Woehler A, Wlodarczyk J, Ponimaskin E (2009) Specific oligomerization of the 5-HT1A receptor in the plasma membrane. *GLYCOCONJUGATE J*, 26(6): 749-56.

Medizinische Dissertationen

1. Latal A, Dr. med., Die Regulation synaptischer Inhibition von Motoneuronen - Elektrophysiologische Untersuchungen an Mauslinien mit hyperekplektischem Phänotyp. Dissertation Universität Göttingen 2009.
2. Reuter J, Dr. med., Developmental changes in the expression of NMDA-receptor subunits NR2B and NR2D in selected nuclei of the respiratory network and morphological changes of neurones located in the pontine Kölliker - Fuse nucleus of rat. Dissertation Universität Göttingen 2009.
3. Schulze L, Dr. med., Postnatale Entwicklung der Rezeptoren NMDA und GABAA im Gehirn der adulten Maus und der Einfluss von Erythropoietin auf ihre Expression. Dissertation Universität Göttingen 2009.
4. Trembak I, Dr. med., Inhibitory synaptic transmission in CA1 region of hippocampus in Neuregulin 1 conditional mutant mice. Dissertation Universität Göttingen 2009.
5. Winter S, Dr. med., Über Fluoreszenz-basierte Techniken zur Erforschung der neuro-glialen Interaktionen im respiratorischen Netzwerk der Maus. Dissertation Universität Göttingen 2009.