

## Literatur

Amarjargal N, Mazurek B, Haupt H, Andreeva N, Fuchs J, Gross J. Effects of SERCA and PMCA inhibitors on the survival of rat cochlear hair cells during ischemia *in vitro*. *Physiol Res* 2007; (in press) PMID 17705670.

Andreeva N, Nyamaa A, Haupt H, Gross J, Mazurek B. Recombinant human erythropoietin prevents ischemia-induced apoptosis and necrosis in explant cultures of the rat organ of Corti. *Neurosci Lett* 2006;396:86-90.

Breder J, Sabelhaus CF, Opitz T, Reymann KG, Schroder UH. Inhibition of different pathways influencing Na(+) homeostasis protects organotypic hippocampal slice cultures from hypoxic/hypoglycemic injury. *Neuropharm* 2000;39:1779-87.

Brines M, Cerami A. Emerging biological roles for erythropoietin in the nervous system. *Nat Rev Neurosci* 2005;6:484-494.

Caye-Thomasen P, Wagner N, Lidegaard FB, Asal K, Thomsen J. Erythropoietin and erythropoietin receptor expression in the guinea pig inner ear. *Hear Res* 2005;203:21-27.

Dulon D, Aran JM, Schacht J. Potassium-depolarization induces motility in isolated outer hair cells by an osmotic mechanism. *Hear Res* 1988;32:123-129.

Dumont RA, Lins U, Filoteo AG, Penniston JT, Kachar B, Gillespie PG. Plasma membrane Ca<sup>2+</sup>-ATPase isoform 2a is the PMCA of hair bundles. *J Neurosci* 2001;21:5066-5078.

Fukunaga K, Kawano T. Akt is a molecular target for signal transduction therapy in brain ischemic insult. *J. Pharmacol Sci* 2003;92:317-327.

Gao J, Gross J, Andreeva N et al. Hypoxia induces differential changes of dopamine metabolism in mature and immature mesencephalic and diencephalic cell cultures. *J Neural Transm* 1999;106:111-122.

Geisler CD. From Sound to Synapse. II. Hair Cell Functions. Oxford University Press, New York, 1998:pp 91-165.

Gross J, Machulik A, Amarjargal N, Fuchs J, Mazurek B. Expression of prestin mRNA in the organotypic culture of rat cochlea. *Hear Res* 2005;204:183-190.

Hu J, Discher DJ, Bishopric NH, Webster KA. Hypoxia regulates expression of the endothelin-1 gene through a proximal hypoxia-inducible factor-1 binding site on the antisense strand. *Biochem Biophys Res Commun* 1998;245:894-899.

Jelkmann W. Molecular biology of erythropoietin. *Intern Med* 2004;43:649-659.

Jentsch TJ. Neuronal KCNQ potassium channels: physiology and role in disease. *Nat Rev Neurosci* 2000;1:21-30.

Kennedy HJ, Evans MG, Crawford AC, Fettiplace R. Fast adaptation of mechanoelectrical transducer channels in mammalian cochlear hair cells. *Nat Neurosci* 2003;6:832-836.

Lehotsky J, Kaplan P, Racay P, Mezesova V, Raeymaekers L. Distribution of plasma membrane Ca<sup>2+</sup> pump (PMCA) isoforms in the gerbil brain: effect of ischemia-reperfusion injury. *Neurochem Int* 1999;35:221-227.

Lipton P. Ischemic cell death in brain neurons. *Physiol Rev* 1999;79:1431-1568.

Lowenheim H, Kil J, Gultig K, Zenner HP. Determination of hair cell degeneration and hair cell death in neomycin treated cultures of the neonatal rat cochlea. *Hear Res* 1999;128:16-26.

Martinez-Dunst C, Michaels RL, Fuchs PA. Release sites and calcium channels in hair cells of the chick's cochlea. *J Neurosci* 1997;17:9133-9144.

Mazurek B, Amarjargal N, Haupt H, Gross J. High potassium concentrations protect inner and outer hair cells in the newborn rat culture from ischemia-induced damage. *Hear Res* 2006;215:31-38.

Mazurek B, Winter E, Fuchs J, Haupt H, Gross J. Susceptibility of the hair cells of the newborn rat cochlea to hypoxia and ischemia. *Hear Res* 2003;182:2-8.

Nieber K. Hypoxia and neuronal function under in vitro conditions. *Pharmacol Ther* 1999;82:71-86.

Orrenius S, Zhivotovsky B, Nicotera P. Regulation of cell death: the calcium-apoptosis link. *Nat Rev Mol Cell Biol* 2003;4:552-565.

Riva C, Donadieu E, Magnan J, Lavieille JP. Age-related hearing loss in CD/1 mice is associated to ROS formation and HIF target proteins up-regulation in the cochlea. *Exp Gerontol* 2006;42:327-336.

Semaan MT, Alagramam KN, Megerian CA. The basic science of Meniere's disease and endolymphatic hydrops. *Curr Opin Otolaryngol Head Neck Surg* 2005;13:301-307.

Sobkowicz HM, Loftus JM, Slapnick SM. Tissue culture of the organ of Corti. *Acta Otolaryngol Suppl Stockh* 1993;502:3-36.

Villa P, Bigini P, Mennini T et al. Erythropoietin selectively attenuates cytokine production and inflammation in cerebral ischemia by targeting neuronal apoptosis. *J Exp Med* 2003;198:971-975.

Wanaverbecq N, Marsh SJ, Al-Qatari M, Brown DA. The plasma membrane calcium-ATPase as a major mechanism for intracellular calcium regulation in neurones from the rat superior cervical ganglion. *J Physiol* 2003;550:83-101.

Wangemann P. K<sup>+</sup> cycling and the endocochlear potential. *Hear Res* 2002;165:1-9.

Yamoah EN, Lumpkin EA, Dumont RA, Smith PJ, Hudspeth AJ, Gillespie PG. Plasma membrane Ca<sup>2+</sup>-ATPase extrudes Ca<sup>2+</sup> from hair cell stereocilia. *J Neurosci* 1998;18:610-624.

Yarin YM, Amarjargal N, Fuchs J et al. Argon protects hypoxia-, cisplatin- and gentamycin-exposed hair cells in the newborn rat's organ of Corti. *Hear Res* 2005;201:1-9.

Zenner HP. K<sup>+</sup>-induced motility and depolarization of cochlear hair cells. Direct evidence for a new pathophysiological mechanism in Meniere's disease. Arch Otorhinolaryngol 1986;243:108-111.