

Publikationsbericht 2007

Institut für Neurobiochemie



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1. Leitung

Prof. Dr. Georg Reiser (Institutsdirektor und Geschäftsführender Direktor des Zentrums)

2. Hochschullehrer

Prof. Dr. Georg Reiser

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Azarashvili, Tamara; Grachev, Dmitry; Krestinina, Olga; Evtodienko, Youri; Yurkov, Igor; Papadopoulos, Vassilios; Reiser, Georg

The peripheral-type benzodiazepine receptor is involved in control of Ca²⁺-induced permeability transition pore opening in rat brain mitochondria

In: Cell calcium. - Amsterdam: Elsevier, Bd. 42.2007, 1, S. 27-39; [Link unter URL](#)

[Imp.fact.: 4.118]

Bernstein, Hans-Gert; Stricker, Rolf; Dobrowolny, Henrik; Trübner, K. ; Bogerts, Bernhard; Reiser, Georg

Histochemical evidence for wide expression of the metalloendopeptidase nardilysin in human brain neurons

In: Neuroscience. - Oxford: Elsevier, Bd. 146.2007, 4, S. 1513-1523; [Link unter URL](#)

[Imp.fact.: 3.427]

Kahlert, Stefan; Blaser, Till; Tulapurkar, Mohan; Reiser, Georg

P2Y receptor-activating nucleotides modulate cellular reactive oxygen species production in dissociated hippocampal astrocytes and neurons in culture independent of parallel cytosolic Ca²⁺ rise and change in mitochondrial potential

In: Journal of neuroscience research. - New York, NY [u.a.]: Wiley-Liss, Bd. 85.2007, 15, S. 3443-3456;

[Link unter URL](#)

[Imp.fact.: 3.476]

Laskowski, Alexandra; Reiser, Georg; Reymann, Klaus G.

Protease-activated receptor-1 induces generation of new microglia in the dentate gyrus of traumatised hippocampal slice cultures

In: Neuroscience letters. - Amsterdam: Elsevier [u.a.], Bd. 415.2007, 1, S. 17-21; [Link unter URL](#)

[Imp.fact.: 2.092]

Luo, Weibo; Wang, Yingfei; Reiser, Georg

Protease-activated receptors in the brain: receptor expression, activation, and functions in neurodegeneration and neuroprotection

In: Brain research. - Amsterdam [u.a.]: Elsevier, Bd. 56.2007, 2, S. 331-345; [Link unter URL](#)

[Imp.fact.: 5.595]

Luo, Weibo; Wang, Yingfei; Reiser, Georg

p24A, a type I transmembrane protein, controls ARF1-dependent resensitization of protease-activated receptor-2 by

influence on receptor trafficking

In: The journal of biological chemistry. - Bethesda, Md. : ASBMB, Bd. 282.2007, 41, S. 30246-30255; [Link unter URL](#)
[Imp.fact.: 5.808]

Ostrowska, Ewa; Sokolova, Elena; Reiser, Georg

PAR-2 activation and LPS synergistically enhance inflammatory signaling in airway epithelial cells by raising PAR expression level and interleukin-8 release

In: American journal of physiology. - Bethesda, Md. [u.a.]: Soc., Bd. 293.2007, 5, S. 1208-1218; [Link unter URL](#)
[Imp.fact.: 4.250]

Schönfeld, Peter; Reiser, Georg

Ca²⁺ storage capacity of rat brain mitochondria declines during the postnatal development without change in ROS production capacity

In: Antioxidants & redox signaling. - Larchmont, NY: Liebert, Bd. 9.2007, 2, S. 191-199; [Link unter URL](#)
[Imp.fact.: 4.491]

Sokolova, Elena; Reiser, Georg

A novel therapeutic target in various lung diseases: airway proteases and protease-activated receptors

In: Pharmacology & therapeutics. - Oxford [u.a.]: Pergamon Press, Bd. 115.2007, 1, S. 70-83; [Link unter URL](#)
[Imp.fact.: 8.657]

Strokin, Mikhail; Sergeeva, Marina; Reiser, Georg

Prostaglandin synthesis in rat brain astrocytes is under the control of the n-3 docosahexaenoic acid, released by group VIB calcium-independent phospholipase A2

In: Journal of neurochemistry. - Oxford: Blackwell Science, Bd. 102.2007, 6, S. 1771-1782; [Link unter URL](#)
[Imp.fact.: 4.260]

Wang, Yingfei; Luo, Weibo; Reiser, Georg

Activation of protease-activated receptors in astrocytes evokes a novel neuroprotective pathway through release of chemokines of the growth-regulated oncogene/cytokine-induced neutrophil chemoattractant family

In: European journal of neuroscience. - Oxford: Blackwell Science, Bd. 26.2007, 11, S. 3159-3168; [Link unter URL](#)
[Imp.fact.: 3.709]

Wang, Yingfei; Luo, Weibo; Reiser, Georg

Proteinase-activated receptor-1 and -2 induce the release of chemokine GRO/CINC-1 from rat astrocytes via differential activation of JNK isoforms, evoking multiple protective pathways in brain

In: The biochemical journal. - London: Portland Press, Bd. 401.2007, 1, S. 65-78; [Link unter URL](#)
[Imp.fact.: 4.100]

Wang, Yingfei; Luo, Weibo; Reiser, Georg

The role of calcium in protease-activated receptor-induced secretion of chemokine GRO/CINC-1 in rat brain astrocytes

In: Journal of neurochemistry. - Oxford: Blackwell Science, Bd. 103.2007, 2, S. 814-819; [Link unter URL](#)
[Imp.fact.: 4.260]

Zündorf, Gregor; Kahlert, Stefan; Reiser, Georg

Gap-junction blocker carbenoxolone differentially enhances NMDA-induced cell death in hippocampal neurons and astrocytes in co-culture

In: Journal of neurochemistry. - Oxford: Blackwell Science, Bd. 102.2007, 2, S. 508-521; [Link unter URL](#)
[Imp.fact.: 4.260]

Zylberg, Jacques; Ecke, Denise; Fischer, Bilha; Reiser, Georg

Structure and ligand-binding site characteristics of the human P2Y₁₁ nucleotide receptor deduced from computational modelling and mutational analysis

In: The biochemical journal. - London: Portland Press, Bd. 405.2007, 2, S. 277-286; [Link unter URL](#)
[Imp.fact.: 4.100]

Dissertationen

Ecke, Denise

Characteristics of the P2Y 11 nucleotide receptor - ligand binding characteristics and P2Y 11-P2Y 1 receptor.
- Magdeburg, Univ., Fak. für Naturwiss., Diss., 2007; [Link unter URL](#); III, 116 Bl., Bl. IV - V: III., graph. Darst.; 21 cm

Luo, Weibo

Analysis of two newly identified protease-activated receptor-2-interacting proteins, Jab1 and p24A, and their role in receptor signalling. - Magdeburg, Univ., Fak. für Naturwiss., Diss., 2007; [Link unter URL](#); 117 Bl.: III., graph. Darst.; 30 cm

Schlecker, Christina

Regulation of the inositol-1,4,5-trisphosphate receptor by neuronal calcium sensor-1 (NCS-1). - Magdeburg, Univ., Medizin. Fakultät, Diss., 2007; 68 Bl: III., graph. Darst

Tulapurkar, Mohan Eknath

Functional expression of P2Y 2 receptor and trafficking of the receptor. - Magdeburg, Univ., Fak. für Naturwiss., Diss., 2007; [Link unter URL](#); 113 Bl.: III., graph. Darst.; 30 cm

Wang, Yingfei

Protease-activated receptor (PAR)-1 and PAR-2 protect rat astrocytes from apoptotic cell death via differentially regulating JNK isoform-specific release of the chemokine GRO/CINC-1 - two novel protective pathways in brain.
- Magdeburg, Univ., Fak. für Naturwiss., Diss., 2007; [Link unter URL](#); 124 Bl.: graph. Darst.; 30 cm