

scientific publications

Recent publications of Biofrontera's researchers (selection):

- STICHEL, C.C., X.R. ZHU, V. BADER, B. LINNARTZ, S. SCHMIDT, H. LÜBBERT (2007) Mono- and double-mutant mouse models of Parkinson`s disease display severe mitochondrial damage *Hum. Mol. Genetics*, April 5 [Epub ahead of print]

- WENDT, W., X.R. ZHU, H. LÜBBERT, C.C. STICHEL (2007) Differential expression of cathepsin X in aging and pathological central nervous system of mice *Exp. Neurol.* 204, 525-540.

- STICHEL, C.C., H. LÜBBERT (2007) Inflammatory processes in the aging mouse brain: participation of dendritic cells and T-cells. *Neurobiology of Aging* Sep 5; [Epub ahead of print]

- LEICHSENRING, A., B. LINNARTZ, X.R. ZHU, H. LÜBBERT, C.C. STICHEL (2006) Ascending neuropathology in the CNS of a mutant SOD1 mouse model of amyotrophic lateral sclerosis. *Brain Research* 1096,180-195.

- SCHÖNEBECK, B., V. BADER, X.R. ZHU, B. SCHMITZ, H. LÜBBERT, C.C. STICHEL (2005) Sgk1, a cell survival response, in neurodegenerative diseases. *Mol. Cell. Neuroscience* 30, 249-264.

- BADER, V., X.R. ZHU, W. WENDT, H. LÜBBERT, C.C. STICHEL (2005) Expression of DJ-1 in the adult mouse brain. *Brain Res.* 1041, 102-111.

- STICHEL, C.C., B. SCHOENEBECK, M. FOGUET, B. SIEBERTZ, V. BADER, X.-R. ZHU and H. LÜBBERT (2005) Sgk1, a member of an RNA cluster associated with cell death in a model of Parkinson`s disease. *Eur. J. Neurosci.* 21 (2), 301-316.

- MASKRI, L., X.R. ZHU, S. FRITZEN, K. KÜHN, C. ULLMER, P. ENGELS, M. ANDRISKE, C.C. STICHEL, H. LÜBBERT (2004) Influence of different promoters on the expression pattern of mutated human alpha-synuclein in transgenic mice. *Neurodegenerative Disease* 1, 255-65.

- KÜHN, K., X.R. ZHU, H. LÜBBERT, C.C. STICHEL (2004) Parkin expression in the developing mouse. *Dev. Brain Res.* 149 (2), 131-142.

- KÜHN, K., J. WELLEN, N. LINK, L. MASKRI, H. LÜBBERT, C.C. STICHEL (2003) The mouse MPTP model: gene expression changes in dopaminergic neurons. *Eur. J. Neurosci.* 17: 1-12.

- SITEK, B., POSCHMANN, G., SCHMIDTKE, K., ULLMER, C., MASKRI, L., ANDRISKE, M., STICHEL, C.C., ZHU, X.R., and LÜBBERT, H. (2003) Expression of MUPP1 protein in mouse brain. *Brain Res.* 970(1-2): 178-87.

- BECAMEL, C., G. ALONSO, N. GALEOTTI, E. DEMEY, P. JOUIN, C. ULLMER, A. DUMUIS, J. BOCKAERT, P. MARIN (2002) Synaptic multiprotein complexes associated with 5-HT_{2C} receptors: a proteomic approach. *EMBO J.* 21: 2332-2342.

- J. R. KELSOE, M. A. SPENCE, E. LOETSCHER, M. FOGUET, A. D. SADOVNIK, R.A. REMICK, P. FLODMAN, J. KHRISTICH, Z. MROCKOWSKI-PARKER, J. L. BROWN, D. MASSER, S. UNGERLEIDER, M. H. RAPAPORT, W. L. WISHART, and H. LÜBBERT (2001) A genome survey indicates a possible susceptibility locus for bipolar disorder on chromosome 22. *Proc. Natl. Acad. Sci. USA* 98: 585-590.

- C. BÉCAMEL, A. FIGGE, S. POLIAK, A. DUMUIS, E. PELES, J. BOCKAERT, H. LÜBBERT, and C. ULLMER (2001) Interaction of Serotonin 5-HT_{2C} Receptors with PDZ10 of the Multi PDZ Protein MUPP1. *J. Biol. Chem.* 279: 12974-12982.

- C.C. STICHEL, M. AUGUSTIN, K. KÜHN, X.-R. ZHU, P. ENGELS, C. ULLMER, H. LÜBBERT (2000) Parkin expression in the adult mouse brain. *Eur. J. Neurosci.* 12: 4181-4195

- R. PROBSTMEIER, C.C. STICHEL, H.W. MÜLLER, H. ASOU, and P. PESHEVA (2000) Chondroitin sulfates expressed on oligodendrocyte-derived tenascin-R are involved in neural cell recognition - functional implications during CNS development and regeneration. *J. Neurosci. Res.* 60: 21-36.

- P. SCHWARZ, C.C. STICHEL, H.J. LUHMANN (2000) Characterization of neuronal migration disorders in neocortical structures: loss or preservation of inhibitory interneurons? *Epilepsia* 41: 781-787.

- C. C. STICHEL, S. HERMANN, H.J. LUHMANN, F. LAUSBERG, H. NIERMANN, D. D'URSO, G. SERVOS, H.-G. HARTWIG, H.W. MÜLLER (1999) Inhibition of collagen IV deposition promotes regeneration of injured CNS axons. *Eur. J. Neurosci.* 11: 632-646.

- C. C. STICHEL, F. LAUSBERG, S. HERMANN, H.W. MÜLLER (1999) Scar modulation in subacute and chronic lesions: effects on axonal regeneration. *Rest. Neurol. Neurosci.* 15: 1-15.

- C. C. STICHEL, H. NIERMANN, D. D'URSO, F. LAUSBERG, S. HERMANN, H.W. MÜLLER (1999) Basal-membrane depleted scar in lesioned CNS: characteristics and relationships to regenerating axons.

- C. C. STICHEL, S. HERMANN, F. LAUSBERG, H.W. MÜLLER (1999) Effects of Schwann cell suspension grafts on axon regeneration in subacute and chronic CNS traumatic injuries. *Glia* 28: 156-165.

- P. HULLEY, M. SCHACHNER, and H. LÜBBERT (1998) L1 neural cell adhesion molecule is a survival factor for fetal dopaminergic neurons. *J. Neurosci. Res.* 53: 129-134.

- C. ULLMER, K. SCHMUCK, A. FIGGE, and H. LÜBBERT (1998) Cloning and characterization of MUPP1, a novel PDZ domain protein. *FEBS Lett.* 424: 63-68.

- R. HOFFMANN, I.R. WILKINSON, J.F. MCCALLUM, P. ENGELS, M.D. HOUSLAY (1998) cAMP-specific phosphodiesterase HSPDE4D3 mutants which mimic activation and changes in rolipram inhibition triggered by protein kinase A phosphorylation of Ser-54: generation of a molecular model. *Biochem J.* 333: 139-49.

- R. HOFFMANN, S. ABDEL'AL, P. ENGELS (1998) Differential distribution of rat PDE-7 mRNA in embryonic and adult rat brain. *Cell Biochem. Biophys.* 28: 103-13.

- K. SCHMUCK, C. ULLMER, A. PROBST, H. KALKMAN and H. LÜBBERT (1996) Activation of meningeal 5-HT_{2B} receptors: An early step in the generation of migraine headache? *Eur. J. Neurosci.* 8: 959-967.

- ULLMER, C., BODDEKE, H., SCHMUCK, K., and LÜBBERT, H. (1996) 5-HT_{2B} receptor-mediated calcium release from ryanodine-sensitive intracellular stores in human pulmonary artery endothelial cells. *Br. J. Pharmacol.* 117: 1081-1088.

- HULLEY, P., HARTIKKA, J., ABDEL'AL, S., ENGELS, P., BUERKI, H.-R., GOGER, C., KELLY, P., LOWE, D., and LÜBBERT, H. (1995) Increased intracellular cAMP prevents the toxicity of MPTP on substantia nigra neurons in vivo. *Eur. J. Neurosci.* 7: 2431-2440.

- ULLMER, C., SCHMUCK, K., KALKMAN, H., and LÜBBERT, H. (1995) Expression of serotonin receptor mRNAs in blood vessels. *FEBS Lett.* 317: 215-221.

- SCHMUCK, K., ULLMER, C., ENGELS, P., and LÜBBERT, H. (1994) Cloning and functional characterization of the human 5-HT_{2B} serotonin receptor. *FEBS Lett.* 342: 85-90.

- FOGUET, M., HOYER, D., PARDO, L.A., PARECK, A., KLUXEN, F.W., KALKMAN, H.O., STÜHMER, W., and LÜBBERT, H. (1992) Cloning and functional characterization of the rat stomach fundus serotonin receptor. *EMBO J.* 11: 3481-3487.