

Publikationen 2009:

Albrecht P, Schmitz M, Otto M, **Hemmer B**, Zerr I, Hartung HP, Methner A (2009) Free caspase activity in CSF of patients with dementia. *J Neurol.* 256 (9): 1561-2

Awad AM, **Hemmer B**, Hartung H-P, Kieseier BC, Bennett JL, Stüve O (2009) Analyses of cerebrospinal fluid in the diagnosis and monitoring of Multiple Sclerosis. *Journal of Neuroimmunology.* In press.

Awasthi A , Riol-Blanco L, Jager A , **Korn T**, Pot C , Galileos G , Bettelli E , Kuchroo VK , Oukka M (2009) Cutting Edge: IL-23 Receptor GFP Reporter Mice Reveal Distinct Populations of IL-17-Producing Cells . *JOURNAL OF IMMUNOLOGY* 182:5904-5908

Bauer S, **Cepok S**, Todorova-Rudolph A, Nowaka M, Köller M, Lorenz R, Oertel WH, Rosenow F, **Hemmer B**, Hamer HM (2009) Etiology and site of temporal lobe epilepsy influence postictal cytokine release. *Epilepsy Research* 86(1): 82-8

Bennett JL, Lam C, Kalluri SR, Saikali P, Bautista K, Dupree C, Glogowska M, Case D, Antel JP, Owens GP, Gilden D, **Nessler S**, Stadelmann C, **Hemmer B** (2009) Intrathecal Pathogenic Anti-Aquaporin-4 Antibodies in Early Neuromyelitis Optica. *Ann Neurol* 2009;66:617-629

Brilot F, Dale RC, **Selter RC**, **Grummel V**, **Kalluri SR**, **Aslam M**, Busch V, Zhou D, **Cepok S**, **Hemmer B** (2009) Antibodies to native myelin oligodendrocyte glycoprotein in children with inflammatory demyelinating central nervous system disease. *Ann Neurol* 66:833-42

Burger D, Molnarfi N, **Weber M**, Prod'homme T, Brandt KJ, Gruaz L, Chofflon M, Zamvil SS, Lalive PH (2009) Regulation of the monocytic IL-1 system by glatiramer acetate in multiple sclerosis. *PNAS*, 10:4355-4359

Burgoon MP, Cohrs RJ, Bennett JL, Anderson SW, **Ritchie AM**, **Cepok S**, **Hemmer B**, Gilden D, Owens GP (2009) Varicella zoster virus is not a disease-relevant antigen in multiple sclerosis. *Ann Neurol.* 2009 Apr;65(4):474-9.

Cepok S, Schreiber H, Hoffmann S, Zhou D, Neuhaus O, von Geldern G, Hochgesand S, **Nessler S**, **Rothhammer V**, Lang M, Hartung HP, **Hemmer B** (2009) Enhancement of Chemokine Expression by Interferon Beta Therapy in Patients With Multiple Sclerosis. *Arch Neurol.* 2009 Aug 10. [Epub ahead of print]

Deisenhammer F, Egg R, Giovannoni G, **Hemmer B**, Petzold A, Sellebjerg F, Teunissen C, Tumani H. (2009) EFNS guidelines on disease specific CSF investigations. *Eur J Neurol.* 2009 Jun;16(6):760-70

Drzesga A, Grimmer T, Henriksen G, **Mühlau M**, Perneckzy R, Miederer I, Praus C, Sorg C, **Wohlschläger A**, Riemenschneider M, Wester HJ, Förstl H, Schwaiger M, Kurz A (2009) Effect of APOE genotype on amyloid plaque load and gray matter volume in Alzheimer disease. *Neurology* 72 (17): 1487-1494

Eich W, Hauser W, Friedel E, Klement A, Herrmann M, Petzke F, Offenbacher M, Schiltenswolf M, Sommer C, **Tölle T**, Henningsen P (2009) Definition, classification and diagnosis of fibromyalgia syndrome. *Z Rheumatol* 67:665

Etgen T, Sander D, Chonchol M, Briesenick C, **Poppert H**, Förstl H, Bickel H (2009) Chronic kidney disease is associated with incident cognitive impairment in the elderly: the IVADE study. *Nephrol Dial Transplant* 24:3144-50

Etgen T, Bronner M, Sander D., Bickel H, **Sander K.**, Forstl H (2009) Somatic Factors in Cognitive Impairment. *Fortschr Neurol Psychiatr* 77:72-82

Feurer R, **Sadikovic S**, **Esposito L**, Schwarze J, Bockelbrink A, **Hemmer B**, **Sander D**, **Poppert H** (2009) Lesion patterns in patients with cryptogenic stroke with and without right-to-left-shunt. *Eur J Neurol.* 2009;16(10): 1077-82

Geber, C, Scherens A, Pfau D, Nestler N, Zenz M, **Tölle T**, Baron R, Treede RD, Maier C (2009) Procedure for certification of QST laboratories. *Schmerz* 23:65-69

Goldenberg G (2009) Apraxia and the parietal lobes. 1: *Neuropsychologia.* 2009 47(6):1449-59.

Hallmayer J, Faraco J, Lin L, Hessler S, **Winkelmann J**, Kawashima M, Mayer G, Plazzi G, Nevsimalova S, Bourgin P, Seung-Chul Hong S, Honda Y, Honda M, Högl B, Longstreth WT, Montplaisir J, Kemlink D, Einen M, Chem J, Musone SL, Akana M, Miyagawa T, Duan J, Desautels A, Erhardt C, Hesla PE, Poli F, Frauscher B, Jeong JH, Lee SP, Ton TGN, Kvale M, Lolesar L, Dobrovolna M, Nepom GT, Salomon D, Wichmann HE, Rouleau GA, Gieger C, Levinson DF, Gejman PV, Meitinger T, Young T, Peppard P, Tokunaga K, Kwok PY, Risch N, Mignot E (2009) Narcolepsy is strongly associated with the T-cell receptor alpha locus. *Letter to Nature Genetics*, 41:708-711

Heider P, Pelisek J, Poppert H, Eckstein HH (2009) Evaluation of serum matrix metalloproteinase as biomarkers for detections of neurological symptoms in carotid artery disease. *Vasc Endovascular Surg* 43:551-560

Hemmer B, Berthele A (2009) Should we measure the bioavailability of interferon β in vivo in patients with multiple sclerosis? *Nature Clinical Practice Neurology* 5:126-127

Hennenlotter A, Dresel C, Castrop F, Ceballos-Baumann AO, Wohlschläger AM, Haslinger B (2009) The Link between Facial Feedback and Neural Activity within Central Circuitries of Emotion—New Insights from Botulinum Toxin—Induced Denervation of Frown Muscles. *Cerebral Cortex* 19:537-542

Holzer K, Esposito L, Stimmer H, Hemmer B, Poppert H (2009) Cerebral vasculitis mimicking migraine with aura in a patient with Crohn's disease. *Acta Neurol Belg.* 2009 Mar,109(1):44-8.

Holzer K, Sadikovic S, Esposito L, Bockelbrink A, Sander D, Hemmer B, Poppert H (2009) Transcranial Doppler ultrasonography predicts cardiovascular events after TIA. *BMC Med Imaging* 30:13

Horn CS, **Ilg R**, Sander, K, Bickel H, Briesenick C, **Hemmer B, Poppert H**, Sander D (2009) High-sensitivity C-reactive protein at different stages of atherosclerosis: results of the INVADE study. *JOURNAL OF NEUROLOGY* 256:783-791

Hu W, **Nessler S, Hemmer B**, Eagar TN, Kane, LP, Leliveld RS, Müller-Schiffmann A, Gocke AR, Lovett-Racke A, Ben L-H, Hussain R, Breil A, Elliott JL, Puttaparthi K, Cravens PD, Singh MP, Petsch B, Stitz L, Racke MK, Korth C, Stüve O. Pharmacological PrP-Silencing Accelerates CNS Autoimmune Disease via TCR Signaling. *Brain*. In press.

Kemlink D, Polo O, Frauscher B, Gschliesser V, Hogl B, Poewe W, Vodicka P, Vavrova J, Sonka K, Nevsimalova S, Schormair B, Lichtner P, Silander K, Peltonen L, Gieger C, Wichmann HE, Zimprich A, Roeske D, Müller-Myhsok B, Meitinger T, **Winkelmann J** (2009) Replication of restless legs syndrome loci in three European populations. *JOURNAL OF MEDICAL GENETICS* 46:315-318

Koch A, **Lehmann-Horn K**, Dächsel JC, Gasser T, Kahle PJ, Lücking CB (2008) Proteasomal inhibition reduces parkin mRNA in PC12 and SH-SY5Y cells. *Parkinsonism and Related Disorders* 15:220-25

Korn T, Bettelli E, Oukka M, Kuchroo VK (2009) IL-17 and Th17 Cells. *Annu. Rev. Immunol.* 27:485–517

Li Y, Randerath J, Bauer H, Marquard C, **Goldenberg G**, Hermsdörfer J (2009) Object properties and cognitive load in the formation of associative memory during precision lifting. *Behav Brain Res.* 2009;196(1): 123-30

Martin Mdel P, Cravens PD, Winger R, Kieseier BC, **Cepok S**, Eagar TN, Zamvil SS, **Weber MS**, Frohman EM, Kleinschmidt-Demasters BK, Montine TJ, **Hemmer B**, Marra CM, Stüve O (2009) Depletion of B lymphocytes from cerebral perivascular spaces by rituximab. *Arch Neurol.* 2009 66(8):1016-20.

Menge T, Schloot NC, Schott M, **Hemmer B**, Wiendl H, Roden M, Kieseier BC, Hartung HP (2009) Interferon beta treatment does not induce organ specific autoantibodies in multiple sclerosis. *Neurology* 72: A35-A35

Methner A, Schmitz, M, **Hemmer B**, Zerr I, Hartung HP, Otto M (2009) Free caspase activity in CSF of patients with dementia. *Journal of Neurology* 256:1561-2

Miederer I, Ziegler SI, Liedtke C, Spilker ME, Miederer M, **Sprenger T**, Wagner KJ, Drzezga A, Boecker H. (2009) Kinetic Modeling of [^{11}C]flumazenil using Data-Driven Methods. *Eur J Nucl Med Mol I*

Miossec P, **Korn T**, Kuchroo VK (2009) Interleukin-17 and type 17 helper T cells. *N Engl J Med.* 2009;361(9): 888-98

Mühlau M, Wohlschläger AM, Gaser C, **Valet M, Weindl A**, Nunnemann S, Peinemann A, Etgen T, **Ilg R** (2008) Voxel based morphometry in individual patients: a pilot study in early Huntington's disease. *American Journal of Neuroradiology* 30(3):539-43

Nunnemann S, **Wohlschläger AM**, **Ilg R**, Gaser C, Etgen T, **Conrad B**, Zimmer C, **Muhlau M** (2009) Accelerated aging of the putamen in men but not in women. *NEUROBIOLOGY OF AGING* (30(1): 147-51)

Pelisek J, Rudelius M, **Zepper P**, **Poppert H**, Reeps C, Schuster T, Eckstein HH (2009) Multiple biological predictors for vulnerable carotid lesions. *Cerebrovasc Dis* 28:601-10

Petri S, **Tölle T**, Straube A et al. (2009) Botulinum toxin as preventive treatment for migraine: A randomized double-blind study. *European Neurology* 62:204-211

Petzold A, Alintas A, Andreoni L, Bartos A, **Berthele A**, Blankenstein MA, Buee L, Castellazzi M, **Cepok S**, Comabella M, Constantinescu CS, Deisenhammer F, Deniz G, Erten G, Espino M, Fainardi E, Franciotta D, Freedman M, Giedraitis V, Gilhus NE, Giovannoni G, Glabinski A, Grieb P, Hartung HP, **Hemmer B**, Herukka SK, Hintzen R, Ingelsson M, Jackson S, Jacobsen S, Jafari, N, Jalosinski M, Jarius S, Kapaki E, Kieseier BC, Koel-Simmelink MJA, Kornhuber J, Kuhle J, Kurzepa J, Lalive P, Lannfelt L, Lehmsiek V, Lewczuk P, Livrea P, Marnetto F, Martino D, Menge T, Norgren N, Papuc E, Paraskevas GP, Pirttilä T, Rajda C, Rejdak K, Ricny J, Ripova D, Rosengren L, Ruggieri M, Schraen S, Shaw G, Sindic C, Siva A, Stigbrand T, Stonebridge I, Topcular B, Trojano M, Tumani H, Twaalfhoven HAM, Vécsei L, Van Pesch V, Vanderstichele H, Vedeler C, Verbeek MM, Villar LM, Weissert R, Wildemann B, Yang C, Yao K, Teunissen C (2009) Neurofilament ELISA validation. *Journal of Immunological Methods*, October 2009 epub ahead of print

Piefke M, Kramer K, Korte M, Schulte-Rüther M, Korte JM, **Wohlschläger AM**, Weber J, Shah NJ, Huber W, Fink GR (2009) Neurofunctional modulation of brain regions by distinct forms of motor cognition and movement features. *Hum Brain Mapp.* 2009;30(2): 432-51

Rosenberg-Nordmann M, **Berthele A**, **Tölle TR**, **Sprenger T** (2009) Trigemino-autonome Cephalgien. Bei Erstdiagnose immer auf sekundäre Formen achten! *Nervenarzt*, im Druck

Roth P, Kissel M, Herrmann C, Eisele G, Leban J, Weller M, **Schmidt F** (2009) SC68896, a novel small molecule proteasome inhibitor, exerts antiglioma activity in vitro and in vivo. *Clin Cancer Res.* 2009 Nov 1;15(21):6609-18.

Sander, D; Sander, K (2009) Primary stroke prevention in diabetes patients. *DIABETOLOGE*, 5 (8): 611-

Sander, D; Etgen, T (2009) Secondary prevention of stroke according to PROfESS and SPARCL. *INTERNIST*, 50 (11): 1227

Sander, D; Kearney, MT (2009) Reducing the risk of stroke in type 2 diabetes: pathophysiological and therapeutic perspectives. *JOURNAL OF NEUROLOGY*, 256 (10): 1603-1619

Sander K, Bickel H, Förstl H, Etgen T, Briesenick C, **Poppert H**, **Sander D** (2009) Carotid intima media thickness is independently associated with cognitive decline. The IVADE study. *J Geriatr Psychiatry* (epub ahead of print)

Sargsyan SA, Shearer AJ, Ritchie AM, Burgoon MP, Anderson SW, **Hemmer B**, Stadelmann C, Gattenlohner S, Owens GP, Gilden D, and Bennett JL (2009) Absence of Epstein-Barr virus in the brain and CSF of patients with multiple sclerosis. *Neurology*, in press

Schirmer L, Albert M, Buss A, Schulz-Schaeffer WJ, Antel JP, Brück W, Stadelmann C (2009). Substantial early, but nonprogressive neuronal loss in multiple sclerosis (MS) spinal cord. *Ann Neurol.* 2009 Jul 13;66(5):698-704

Schulze-Horn C, **Ilg R**, Sander K, Bickel H, Briesenick C, **Hemmer B**, **Poppert H**, Sander D (2009) High sensitivity C-reactive protein at different stages of atherosclerosis: Results of the IVADE study. *J Neurol*, in press

Schweikert A, Kremer M, Ringel F, Liebig T, Duyster J, Stüve O, **Hemmer B**, **Berthele A** (2009) Primary Central Nervous System Lymphoma in a Patient treated with Natalizumab. *Ann Neurol* 66:403-406

Sellner J, Boggild M, Clanet M, Hintzen RQ, Illes Z, Montalban X, Du Pasquier RA, Polman CH, Soelberg Sorensen P, **Hemmer B**. (2009) EFNS guidelines on diagnosis and management of neuromyelitis optica *European Journal of Neurology*

Sellner J, Buonomano R, Nedeltchev K, Findling O, Schroth G, Surbek DV, Leib SL. A case of Herpes simplex virus encephalitis during pregnancy *Nat Clin Pract Neurol* 2009, 5(1):51-6.

Sellner J, Grandgirard D, Gianinazzi C, Landmann R, Leib SL. (2009) Effect of the TLR2-agonist Pam3CysCK4 on inflammation and neuronal injury in pneumococcal meningitis. *J Neuroimmunol* 206 (1-2), 28-31

Sellner J, Lüthi N, Schüpbach WMM, Gebhardt A, Findling O, Schroth G, Mattle HP, Nedeltchev K. (2009) Diagnostic work up of patients with acute transverse myelitis: spectrum of clinical presentation, neuroimaging and laboratory findings. *Spinal Cord* 47:21.04.2009:312-317

Sellner J, Mühlau M, Hemmer H (2009) The clinical spectrum and immunobiology of parainfectious neuromyelitis optica (Devic) syndromes *Journal of Autoimmunity. J Autoimmun*, in press

Sellner J, Petzold A, Sadikovic S, Esposito L, Weber MS, Heider P, Eckstein HH, Hemmer B, Poppert H (2009) The value of the serum neurofilament protein heavy chain as a biomarker for peri-operative brain injury after carotid endarterectomy. *Neurochem Res* 34(11):1969-74

Sellner J, Schirmer L, Hemmer B, Mühlau M (2009) Das radiologisch-isolierte Syndrom: wenn nur das MR "MS" sagt. *Nervenarzt*, im Druck

Sepp D, Esposito L, Zepper P, Ott I, Feurer R, Sadikovic S, Hemmer B, Poppert H (2009) Surface expression of CXCR4 on circulating CD133+ progenitor cells is associated with plaque instability in subjects with carotid artery stenosis. *Angiogenesis Res* 1:10

Sprenger T, Seifert C, Tölle TR (2009) Physiologische und pathophysiologische Grundlagen von Schmerz. In: Wippert P, Beckmann J (Hrsg) *Stress- und Schmerzursachen verstehen: Gesundheitspsychologie und -soziologie in Prävention und Rehabilitation*. Thieme, Stuttgart, pp167-174

Sprenger T, Straube A (2009) *Migraine Pocketcard Set* (deutsche Auflage). Börm Bruckmaier Verlag, München

Sprenger T, Tölle TR, Boecker H, Bartenstein P (2009) *Schmerzforschung mit PET*. *Nervenheilkunde*, in press

Steppich BA, Kaufmann J, **Sepp D**, Kunert K, Rutz T, Stratz C, Ott I (2009) Increased circulating placental growth factor during percutaneous coronary intervention is associated with applied radiocontrast agent. *Coron Artery Dis* 29:130-137

Struhal W, **Sellner J** (2009) European teaching course on autonomic nervous system disorders: reaching out to young physicians. *Clin Auton Res* 19:130

Struhal W, Falup-Pecurariu C, Sztrihai L, **Sellner J**. The European association of young neurologists and trainees: advocating young neurologists in Europe. *Eur J Neurol*. 2009 Aug;16(8):e146-8.

Struhal W, Hess B, Sztrihai L, Falup-Pecurariu C, Findling O, **Sellner J** (2009) The European Association of Young Neurologists and Trainees (EAYNT) promoting training in neurorehabilitation *Lancet Neurology* 2009 8:511-511

Stuve O, Cravens PD, Frohman ,Phillips JT , Remington GM , von Geldern G, **Cepok S** , Singh MP, Tervaert JWC, De Baets M, MacManus D, Miller DH , Radu EW, Cameron EM, Monson NL , Zhang S , Kim R , **Hemmer B** , Racke MK(2009) Immunologic, clinical, and radiologic status 14 months after cessation of natalizumab therapy. *Neurology* 72:396-401

Stüve O, Leussink VI, Fröhlich R, **Hemmer B**, Hartung HP, Menge T, Kieseier BC (2008) Long-term B cell depletion with rituximab in a patient with relapsing remitting multiple sclerosis. *Arch Neurol* 66(2):259-61

Teunissen CE, Petzold A, Bennett JL, Berven FS, Brundin L, Comabella M, Franciotta D, Frederiksen J, Fleming JO, Furlan R, Hintzen RQ, Hughes S, Johnson M, Krasulova E, Kuhle J, Magnone MC, Rajda C, Rejdak K, Schmidt H, van Pesch V, Waubant E, Wolf C, Giovannoni G, **Hemmer B**, TUMANI H, and Deisenhammer F (2009) A consensus protocol for the standardisation of cerebrospinal fluid collection and biobanking. *Neurology*73: 1914-1922

Tiemann L, Penner I, Haupts M, Schlegel U, Calabrese P (2009) Cognitive decline in multiple sclerosis: impact of topographic lesion distribution on differential cognitive deficit patterns. *Mult Scler* Aug 10.

Tiemann L, Reidt JH, Esposito L, Sander D, Theiss W, Poppert H (2009) Neuropsychological sequelae of carotid angioplasty with stent placement: correlation with ischemic lesions in diffusion weighted imaging. *PLoS One* 10;4(9):e7001.

Trenkwalder C , Hogl B , **Winkelmann J** (2009) Recent advances in the diagnosis, genetics and treatment of restless legs syndrome. *JOURNAL OF NEUROLOGY* 256:539-553

Tumani H, Hartung HP, **Hemmer B**, Teunissen C, Deisenhammer F, Giovannoni G, Zettl UK, The BioMS Study Group (2009) Cerebrospinal fluid biomarkers in multiple sclerosis. *Neurobiology of Disease* 35:117-127

Valet M, Gündel H, **Sprenger H**, Sorg C, **Mühlau M**, Zimmer C, Henningsen P (2009) Patients with pain disorder show gray-matter loss in pain-processing structures: a voxel-based morphometric study. *Psychosom Med.* 71(1):49-56.

Vollmar P, **Nessler S**, **Kalluri SR**, Hartung HP, **Hemmer B** (2009) The antidepressant venlafaxine ameliorates murine experimental autoimmune encephalomyelitis by suppression of pro-inflammatory cytokines. *International Journal of Neuropsychopharmacology* 12, 525–536.

Warnke C, Menge T, Hartung HP, Racke MK, Cravens PD, Bennett JL, Frohman EM, Greenberg BM, Zamvil SS, Gold R, **Hemmer B**, Kieseier BC, Stüve O (2009) Natalizumab and Progressive Multifocal Leukoencephalopathy: What are the causal factors? Can it be avoided? *Arch Neurol*, in press

Weber MS, **Hemmer B** Cooperation of B Cells and T Cells in the Pathogenesis of Multiple Sclerosis. *Results Probl Cell Differ.* 2009 Jul 7.

Winkelmann J (2009) Genetik des Restless-Legs-Syndroms. *Akt Neurol* 36:524-52

Stand: Januar 2010