

Journalbeiträge

1. Benkhoucha M, Molnarfi N, Santiago-Raber ML, Weber MS, Merkler D, Collin M, Lalive PH (2012) IgG glycan hydrolysis by EndoS inhibits experimental autoimmune encephalomyelitis. *J NEUROINFLAMM*, 9: 209.
2. Bolton S, Hassall D, Hildebrand D, Brück W, K.Huang J, Pluchino S, McKevitt T, Parry J, McFarlane M, Fagg R, Roulois A (2012) Anti-inflammatory Disease Therapies: Challenges and Strategies in Drug Development. *TOXICOL PATHOL*, 40: 122-125.
3. Bonilla WV, Fröhlich A, Senn K, Kallert S, Fernandez M, Johnson S, Kreutzfeldt M, Hegazy AN, Schrick C, Fallon PG, Klemenz R, Nakae S, Adler H, Merkler D, Löhnning M, Pinschewer DD (2012) The alarmin interleukin-33 drives protective antiviral CD8⁺ T cell responses. *SCIENCE*, 335(6071): 984-9.
4. Boretius S, Escher A, Dallenga T, Wrzos C, Tammer R, Brück W, Nessler S, Frahm J, Stadelmann C (2012) Assessment of lesion pathology in a new animal model of MS by multiparametric MRI and DTI. *NEUROIMAGE*, 59(3): 2678-88.
5. Breyer J, Wemheuer WM, Wrede A, Graham C, Benestad SL, Brenig B, Richt JA, Schulz-Schaeffer WJ (2012) Detergents modify proteinase K resistance of PrP Sc in different transmissible spongiform encephalopathies (TSEs). *VET MICROBIOL*, 157(1-2): 23-31.
6. Brück W, Zamvil SS (2012) Laquinimod, a once-daily oral drug in development for the treatment of relapsing-remitting multiple sclerosis. *Expert Rev Clin Pharmacol*, 5(3): 245-56.
7. Brück W, Pförtner R, Pham T, Zhang J, Hayardeny L, Piryatinsky V, Hanisch UK, Regen T, van Rossum D, Brakelmann L, Hagemeyer K, Kuhlmann T, Stadelmann C, John GR, Kramann N, Wegner C (2012) Reduced astrocytic NF- κ B activation by laquinimod protects from cuprizone-induced demyelination. *ACTA NEUROPATHOL*, 124(3): 411-24.
8. Brück W, Popescu B, Lucchinetti CF, Markovic-Plese S, Gold R, Thal DR, Metz I (2012) Neuromyelitis optica lesions may inform multiple sclerosis heterogeneity debate. *ANN NEUROL*, 72(3): 385-94.
9. Buck D, Förtschler A, Lapa C, Schuster T, Vollmar P, Korn T, Nessler S, Stadelmann C, Drzezga A, Buck AK, Wester HJ, Zimmer C, Krause BJ, Hemmer B (2012) 18F-FDG PET detects inflammatory infiltrates in spinal cord experimental autoimmune encephalomyelitis lesions. *J NUCL MED*, 53(8): 1269-76.
10. del Campo M, Mollenhauer B, Bertolotto A, Engelborghs S, Hampel H, Simonsen AH, Kapaki E, Kruse N, Le Bastard N, Lehmann S, Molinuevo JL, Parnetti L, Perret-Liaudet A, Sáez-Valero J, Saka E, Urbani A, Vanmechelen E, Verbeek M, Visser PJ, Teunissen C (2012) Recommendations to standardize preanalytical confounding factors in Alzheimer's and Parkinson's disease cerebrospinal fluid biomarkers: an update. *BIOMARK MED*, 6(4): 419-30.
11. Dibaj P, Zschüntzsch J, Steffens H, Scheffel J, Göricker B, Weishaupt JH, Le Meur K, Kirchhoff F, Hanisch UK, Schomburg ED, Neusch C (2012) Influence of methylene blue on microglia-induced inflammation and motor neuron degeneration in the SOD1(G93A) model for ALS. *PLOS ONE*, 7(8): e43963.
12. Dieelberg C, Ribes S, Michel U, Redlich S, Brück W, Nau R, Schütze S (2012) Follistatin does not influence the course of *Escherichia coli* K1 sepsis in a mouse model. *SHOCK*, 38(6): 615-9.
13. Djukic M, Schulz D, Schmidt H, Lange P, Nau R (2012) Cerebrospinal fluid findings in geriatric patients from 2008 to 2011. *Z GERONTOL GERIATR*, 259 (4): 630-636.
14. Djukic M, Munz M, Sörgel F, Holzgrabe U, Eiffert H, Nau R (2012) Overton's rule helps to estimate the penetration of anti-infectives into patients' cerebrospinal fluid. *ANTIMICROB AGENTS CH*, 56(2): 979-88.
15. Djukic M, Schmidt-Samoa C, Lange P, Spreer A, Neubieser K, Eiffert H, Nau R, Schmidt H (2012) Cerebrospinal fluid findings in adults with acute Lyme neuroborreliosis. *J NEUROL*, 259(4): 630-6.
16. Eisele S, Krumbholz M, Fischer MT, Mohan H, Junker A, Arzberger T, Hohlfeld R, Bradl M, Lassmann H, Meini E (2012) Prospects of transcript profiling for mRNAs and MicroRNAs using formalin-fixed and paraffin-embedded dissected autoptic multiple sclerosis lesions. *BRAIN PATHOL*, 22(5): 607-18.
17. Enouz S, Carrié L, Merkler D, Bevan MJ, Zehn D (2012) Autoreactive T cells bypass negative selection and respond to self-antigen stimulation during infection. *J EXP MED*, 209(10): 1769-79.
18. Filippi M, Rocca MA, Barkhof F, Brück W, Chen JT, Comi G, DeLuca G, De Stefano N, Erickson BJ, Evangelou N, Fazekas F, Geurts JJG, Lucchinetti C, Miller DH, Pelletier D, Popescu BFG, Lassmann H, Attendees of the Correlation between Pathological MRI findings in MS workshop (2012) Association between pathological and MRI findings in multiple sclerosis. *LANCET NEUROL*, 11(4): 349-60.
19. Fledrich R, Schlotter-Weigel B, Schnizer TJ, Wichert SP, Stassart RM, zu Hörste GM, Klink A, Weiss BG, Haag U, Walter MC, Rautenstrauss B, Paulus W, Rossner MJ, Sereda MW (2012) A rat model of Charcot-Marie-Tooth disease 1A recapitulates disease variability and supplies biomarkers of axonal loss in patients. *BRAIN*, 135(Pt 1): 72-87.
20. Fledrich R, Stassart RM, Sereda MW (2012) Murine therapeutic models for Charcot-Marie-Tooth (CMT) disease. *BRIT MED BULL*, 102: 89-113.

21. Gawinecka J, Cardone F, Asif AR, De Pascalis A, Wemheuer WM, Schulz-Schaeffer WJ, Pocchiari M, Zerr I (2012) Sporadic Creutzfeldt-Jakob disease subtype-specific alterations of the brain proteome: impact on Rab3a recycling. PROTEOMICS, 12(23-24): 3610-20.
22. Gerber J, Redlich S, Ribes S, Tauber SC, Schmidt H, Nau R (2012) Intrathecal treatment with the anti-phosphorylcholine monoclonal antibody TEPC-15 decreases neuronal damage in experimental pneumococcal meningitis. CHEMOTHERAPY, 58(3): 212-6.
23. Gutenberg A, Caturegli P, Metz I, Martinez R, Mohr A, Brück W, Rohde V (2012) Necrotizing infundibulo-hypophysitis: an entity too rare to be true? PITUITARY, 15(2): 202-8.
24. Hadas S, Spira M, Hanisch UK, Reichert F, Rotshenker S (2012) Complement receptor-3 negatively regulates the phagocytosis of degenerated myelin through tyrosine kinase Syk and cofilin. J NEUROINFLAMM, 9: 166.
25. Hagemeier K, Brück W, Kuhlmann T (2012) Multiple sclerosis - remyelination failure as a cause of disease progression. HISTOL HISTOPATHOL, 27(3): 277-87.
26. Hampton DW, Innes N, Merkler D, Zhao C, Franklin RJM, Chandran S (2012) Focal immune-mediated white matter demyelination reveals an age-associated increase in axonal vulnerability and decreased remyelination efficiency. AM J PATHOL, 180(5): 1897-905.
27. Heuer JF, Sauter P, Pelosi P, Herrmann P, Brück W, Perske C, Schondube F, Crozier TA, Bleckmann A, Beiszbart T, Quintel M (2012) Effects of pulmonary acid aspiration on the lungs and extra-pulmonary organs: a randomized study in pigs. CRIT CARE, 16(2): R35.
28. Jarius S, Ruprecht K, Wildemann B, Kuempfel T, Ringelstein M, Geis C, Kleiter I, Kleinschmitz C, Berthele A, Brettschneider J, Hellwig K, Hemmer B, Linker RA, Lauda F, Mayer CA, Tumani H, Melms A, Trebst C, Stangel M, Marziniak M, Hoffmann F, Schippling S, Faiss JH, Neuhaus O, Ettrich B, Zentner C, Guthke K, Hofstadt-van Oy U, Reuss R, Pellkofer H, Ziemann U, Kern P, Wandinger KP, Bergh FT, Boettcher T, Langel S, Liebetrau M, Rommer PS, Niehaus S, Münch C, Winkelmann A, Zettl U UK, Metz I, Veauthier C, Sieb JP, Wilke C, Hartung HP, Aktas O, Paul F (2012) Contrasting disease patterns in seropositive and seronegative neuromyelitis optica: A multicentre study of 175 patients. J NEUROINFLAMM, 9: 14.
29. Junker A, Brück W (2012) Autoinflammatory grey matter lesions in humans: cortical encephalitis, clinical disorders, experimental models. CURR OPIN NEUROL, 25(3): 349-57.
30. Keric N, Burger R, Elof E, Wrede A, Rohde V (2012) Temporobasal, Transsphenoidal Meningoencephalocele Becoming Symptomatic with Spontaneous Cerebrospinal Fluid Rhinorrhea: Diagnostic Work-up and Microsurgical Strategy. J Neurol Surg A Cent Eur Neurosurg, -: -.
31. Kowarik MC, Cepok S, Sellner J, Grummel V, Weber MS, Korn T, Berthele A, Hemmer B (2012) CXCL13 is the major determinant for B cell recruitment to the CSF during neuroinflammation. J NEUROINFLAMM, 9: 93.
32. Kruse N, Schulz-Schaeffer WJ, Schlossmacher MG, Mollenhauer B (2012) Development of electrochemiluminescence-based singleplex and multiplex assays for the quantification of ?-synuclein and other proteins in cerebrospinal fluid. METHODS, 56(4): 514-8.
33. Lacerda-Pinheiro S, Dimitrova-Nakov S, Harichane Y, Souyri M, Petit-Cocault L, Legrès L, Marchadier A, Baudry A, Ribes S, Goldberg M, Kellermann O, Poliard A (2012) Concomitant multipotent and unipotent dental pulp progenitors and their respective contribution to mineralised tissue formation. EUR CELLS MATER, 23: 371-86.
34. Lescher J, Paap F, Schultz V, Redenbach L, Scheidt U, Rosewich H, Nessler S, Fuchs E, Gärtner J, Brück W, Junker A (2012) MicroRNA regulation in experimental autoimmune encephalomyelitis in mice and marmosets resembles regulation in human multiple sclerosis lesions. J NEUROIMMUNOL, 246(1-2): 27-33.
35. Liebetanz D, Gerber J, Schiffner C, Schütze S, Klinker F, Jarry H, Nau R, Tauber SC (2012) Pre-infection physical exercise decreases mortality and stimulates neurogenesis in bacterial meningitis. J NEUROINFLAMM, 9: 168.
36. Lörinczi É, Bhargava Y, Marino SF, Taly A, Kaczmarek-Hájek K, Barrantes-Freer A, Dutertre S, Grutter T, Rettinger J, Nicke A (2012) Involvement of the cysteine-rich head domain in activation and desensitization of the P2X1 receptor. P NATL ACAD SCI USA, 109(28): 11396-401.
37. Makouki J, Belle M, Meffre D, Stassart R, Grenier J, Shackleford G, Fledrich R, Fonte C, Branchu J, Goulard M, de Waele C, Charbonnier F, Sereda MW, Baulieu EE, Schumacher M, Bernard S, Massaad C (2012) Lithium enhances remyelination of peripheral nerves. P NATL ACAD SCI USA, 109(10): 3973-8.
38. Manrique-Hoyos N, Jürgens T, Grønborg M, Kreutzfeldt M, Schedensack M, Kuhlmann T, Schrick C, Brück W, Urlaub H, Simons M, Merkler D (2012) Late motor decline after accomplished remyelination: impact for progressive multiple sclerosis. ANN NEUROL, 71(2): 227-44.
39. Matzke M, Schreiber S, Elof E, Metz I, Mawrin C, Heinze HJ, Sailer M (2012) Natalizumab-associated central nervous system lymphoma?--another patient. MULT SCLER J, 18(11): 1653-4.
40. Metz I, Radue EW, Oterino A, Kümpfel T, Wiendl H, Schippling S, Kuhle J, Sahraian MA, Gray F, Jakl V, Häusler D, Brück W (2012) Pathology of immune reconstitution inflammatory syndrome in multiple sclerosis

- with natalizumab-associated progressive multifocal leukoencephalopathy. ACTA NEUROPATHOL, 123(2): 235-45.
41. Nitzki F, Becker M, Frommhold A, Schulz-Schaeffer W, Hahn H (2012) Patched knockout mouse models of Basal cell carcinoma. J Skin Cancer, 2012: 907543.
 42. Pelczar P, Zibat A, van Dop WA, Heijmans J, Bleckmann A, Gruber W, Nitzki F, Uhmann A, Guijarro MV, Hernando E, Dittmann K, Wienands J, Dressel R, Wojnowski L, Binder C, Taguchi T, Beissbarth T, Hogendoorn PCW, Antonescu CR, Rubin BP, Schulz-Schaeffer W, Aberger F, van den Brink GR, Hahn H (2012) Inactivation of Patched1 in mice leads to development of gastrointestinal stromal-like tumors that express Pdgfr β but not kit. GASTROENTEROLOGY, 144(1): 134-144.e6.
 43. Peruga I, Hartwig S, Merkler D, Thöne J, Hovemann B, Juckel G, Gold R, Linker RA (2012) Endogenous ciliary neurotrophic factor modulates anxiety and depressive-like behavior. BEHAV BRAIN RES, 229(2): 325-32.
 44. Redlich S, Ribes S, Schütze S, Czesnik D, Nau R (2012) Palmitoylethanolamide stimulates phagocytosis of Escherichia coli K1 and Streptococcus pneumoniae R6 by microglial cells. J NEUROIMMUNOL, 244(1-2): 32-4.
 45. Rena Hesse A, Hagemeier K, Lürbke A, Held J, Friedman H, Peterson A, Brück W, Kuhlmann T (2012) XIAP protects oligodendrocytes against cell death in vitro but has no functional role in toxic demyelination. GLIA, 60(2): 271-80.
 46. Ribes S, Adam N, Schütze S, Regen T, Redlich S, Janova H, Borisch A, Hanisch UK, Nau R (2012) The nucleotide-binding oligomerization domain-containing-2 ligand muramyl dipeptide enhances phagocytosis and intracellular killing of Escherichia coli K1 by Toll-like receptor agonists in microglial cells. J NEUROIMMUNOL, 252(1-2): 16-23.
 47. Schattling B, Steinbach K, Thies E, Kruse M, Menigoz A, Ufer F, Flockerzi V, Brück W, Pongs O, Vennekens R, Kneussel M, Freichel M, Merkler D, Friese MA (2012) TRPM4 cation channel mediates axonal and neuronal degeneration in experimental autoimmune encephalomyelitis and multiple sclerosis. NAT MED, 18(12): 1805-11.
 48. Scheffel J, Regen T, Van Rossum D, Seifert S, Ribes S, Nau R, Parsa R, Harris RA, Boddeke HWGM, Chuang HN, Pukrop T, Wessels JT, Jürgens T, Merkler D, Brück W, Schnaars M, Simons M, Kettenmann H, Hanisch UK (2012) Toll-like receptor activation reveals developmental reorganization and unmasks responder subsets of microglia. GLIA, 60(12): 1930-43.
 49. Schirmer L, Seifert CL, Pfeifenbring S, Wunderlich S, Stadelmann C, Hemmer B (2012) Clinicopathological considerations in acute disseminated encephalomyelitis (ADEM): a fulminant case with favorable outcome. J NEUROL, 259(4): 753-5.
 50. Schmidt J, Barthel K, Zschüntzsch J, Muth IE, Swindle EJ, Hombach A, Sehmisch S, Wrede A, Lühder F, Gold R, Dalakas MC (2012) Nitric oxide stress in sporadic inclusion body myositis muscle fibres: inhibition of inducible nitric oxide synthase prevents interleukin-1 β -induced accumulation of β -amyloid and cell death. BRAIN, 135(Pt 4): 1102-14.
 51. Schulz-Schaeffer, Walter J (2012) Neurodegeneration in Parkinson disease: moving Lewy bodies out of focus. NEUROLOGY, 79(24): 2298-9.
 52. Schütze S, Loleit T, Zeretzke M, Bunkowski S, Brück W, Ribes S, Nau R (2012) Additive microglia-mediated neuronal injury caused by amyloid- β and bacterial TLR agonists in murine neuron-microglia co-cultures quantified by an automated image analysis using cognition network technology. J ALZHEIMERS DIS, 31(3): 651-7.
 53. Schwab N, Ulzheimer JC, Fox RJ, Schneider-Hohendorf T, Kieseier BC, Monoranu CM, Staigaitis SM, Welch W, Jilek S, Du Pasquier RA, Brück W, Toyka KV, Ransohoff RM, Wiendl H (2012) Fatal PML associated with efalizumab therapy: insights into integrin α L β 2 in JC virus control. NEUROLOGY, 78(7): 458-67; discussion 465.
 54. Schwab N, Höhn KG, Schneider-Hohendorf T, Metz I, Stenner MP, Jilek S, Du Pasquier RA, Gold R, Meuth SG, Ransohoff RM, Brück W, Wiendl H (2012) Immunological and clinical consequences of treating a patient with natalizumab. MULT SCLER J, 18(3): 335-44.
 55. Seifert CL, Wegner C, Sprenger T, Weber MS, Brück W, Hemmer B, Sellner J (2012) Favourable response to plasma exchange in tumefactive CNS demyelination with delayed B-cell response. MULT SCLER J, 18(7): 1045-9.
 56. Sinnecker T, Dörr J, Pfueler CF, Harms L, Ruprecht K, Jarius S, Brück W, Niendorf T, Wuerfel J, Paul F (2012) Distinct lesion morphology at 7-T MRI differentiates neuromyelitis optica from multiple sclerosis. NEUROLOGY, 79(7): 708-14.
 57. Stadelmann-Nessler C (2012) Comment: ischemia or demyelination--or both? NEUROLOGY, 78(3): 221.
 58. Uhmann A, Niemann H, Lammering B, Henkel C, Heß I, Rosenberger A, Dullin C, Schraepeler A, Schulz-Schaeffer W, Hahn H (2012) Calcitriol inhibits hedgehog signaling and induces vitamin d receptor signaling and differentiation in the patched mouse model of embryonal rhabdomyosarcoma. Sarcoma, 2012: 357040.

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Publikationen und Hochschulschriften 2012
Neuropathologie

59. von Baumgarten L, Pfeifenbring S, Terpolilli N, Schüller U, Jahn K, Opherk C, Freilinger T (2012) A young man with symptomatic epilepsy and right hemianopia: family affair. NEUROLOGY, 79(19): 2008-9.
60. Wachter D, Kallenberg K, Wrede A, Schulz-Schaeffer W, Behm T, Rohde V (2012) Fluorescence-guided operation in recurrent glioblastoma multiforme treated with bevacizumab-fluorescence of the noncontrast enhancing tumor tissue? J Neurol Surg A Cent Eur Neurosurg, 73(6): 401-6.
61. Walter J, Handel LL, Brodhun M, van Rossum D, Hanisch UK, Liebmann L, Heppner F, Goldbrunner R, Koch A, Kuhn SA (2012) Expression of coagulation factors and their receptors in tumor tissue and coagulation factor upregulation in peripheral blood of patients with cerebral carcinoma metastases. J CANCER RES CLIN, 138(1): 141-51.
62. Weber MS, Menge T, Lehmann-Horn K, Kronsbein HC, Zettl U, Sellner J, Hemmer B, Stüve O (2012) Current treatment strategies for multiple sclerosis - efficacy versus neurological adverse effects. CURR PHARM DESIGN, 18(2): 209-19.
63. Wrede A, Margraf NG, Goebel HH, Deuschl G, Schulz-Schaeffer WJ (2012) Myofibrillar disorganization characterizes myopathy of camptocormia in Parkinson's disease. ACTA NEUROPATHOL, 123(3): 419-32.
64. Zujovic V, Doucerain C, Hidalgo A, Bachelin C, Lachapelle F, Weissert R, Stadelmann C, Linington C, Baron-Van Evercooren A (2012) Exogenous schwann cells migrate, remyelinate and promote clinical recovery in experimental auto-immune encephalomyelitis. PLOS ONE, 7(9): e42667.

Habilitationen

1. Schütze S (2012) Einfluss von bakteriellen Infektionen auf den Verlauf neurodegenerativer Erkrankungen ? Untersuchungen in Zellkultur- Mausmodellen mit Fokussierung auf die Rolle der Mikroglia. Habilitation Universität Göttingen.

Medizinische Dissertationen

1. Herget A, Dr. med. (2012) Epigenetische Kontrolle der Remyelinisierung bei Multipler Sklerose. Dissertation Universität Göttingen.
2. Kellert B, Dr. med. (2012) Einfluss einer intrazerebralen Infektion mit Streptococcus pneumoniae auf den Verlauf der Alzheimer-Demenz im Mausmodell. Dissertation Universität Göttingen.
3. Loleit T, Dr. med. (2012) Additiver Mikroglia-vermittelter Neuronenschaden durch β -Amyloid und bakterielle Toll-like-Rezeptor-Agonisten in primären murinen Mikroglia-Neuronen-Kokulturen - Entwicklung eines Auswertungsalgorithmus zur Quantifizierung des Neuronenschadens mit Hilfe e. Dissertation Universität Göttingen.
4. Schlevogt B, Dr. med. (2012) Untersuchungen zur Rekrutierung myeloischer Zellen in einem Tiermodell der Alzheimerschen Erkrankung. Dissertation Universität Göttingen.
5. Schultz K, Dr. med. (2012) De- und Remyelinisierung in Dopaminrezeptor-defizienten Mäusen. Dissertation Universität Göttingen.
6. Wilhelm K, Dr. med. (2012) Das lymphozytäre Entzündungsfiltrat in Multiple Sklerose-Läsionen: Immunhistochemische Analyse im Bezug auf immunopathogenetische Subtypen und Läsionsaktivitäten. Dissertation Universität Göttingen.
7. Wrede A, Dr. med. (2012) Charakterisierung der myopathologischen Veränderungen bei der Kamptokormie des Morbus Parkinson. Dissertation Universität Göttingen.