

Journalbeiträge

1. [Arora AS](#), [Zafar S](#), [Kollmar O](#), [Llorens F](#), [Tahir W](#), [Vanselow S](#), [Kumar P](#), [Schmerr MJ](#), [Schmitz M](#), [Zerr I](#) (2015) Application of capillary immunoelectrophoresis revealed an age- and gender-dependent regulated expression of PrPC in liver. *ELECTROPHORESIS* 36(24): 3026-33, doi: 10.1002/elps.201500244
2. [Asai H](#), [Ikezu S](#), [Tsunoda S](#), [Medalla M](#), [Luebke J](#), [Haydar T](#), [Wolozin B](#), [Butovsky O](#), [Kügler S](#), [Ikezu T](#) (2015) Depletion of microglia and inhibition of exosome synthesis halt tau propagation. *NAT NEUROSCI* 18(11): 1584-93, doi: 10.1038/nn.4132
3. [Aveleira CA](#), [Botelho M](#), [Carmo-Silva S](#), [Pascoal JF](#), [Ferreira-Marques M](#), [Nóbrega C](#), [Cortes L](#), [Valero J](#), [Sousa-Ferreira L](#), [Álvaro AR](#), [Santana M](#), [Kügler S](#), [Pereira de Almeida L](#), [Cavadas C](#) (2015) Neuropeptide Y stimulates autophagy in hypothalamic neurons. *P NATL ACAD SCI USA* 112(13): E1642-51, doi: 10.1073/pnas.1416609112
4. [Barbot M](#), [Jans DC](#), [Schulz C](#), [Denkert N](#), [Kroppen B](#), [Hoppert M](#), [Jakobs S](#), [Meinecke M](#) (2015) Mic10 oligomerizes to bend mitochondrial inner membranes at cristae junctions. *CELL METAB* 21(5): 756-63, doi: 10.1016/j.cmet.2015.04.006
5. [Behme D](#), [Mpotsaris A](#), [Zeyen P](#), [Psychogios MN](#), [Kowoll A](#), [Maurer CJ](#), [Joachimski F](#), [Liman J](#), [Wasser K](#), [Kabbasch C](#), [Berlis A](#), [Knauth M](#), [Liebig T](#), [Weber W](#) (2015) Emergency Stenting of the Extracranial Internal Carotid Artery in Combination with Anterior Circulation Thrombectomy in Acute Ischemic Stroke: A Retrospective Multicenter Study. *AM J NEURORADIOL* 36(12): 2340-5, doi: 10.3174/ajnr.A4459
6. [Börger M](#), [Funke S](#), [Bähr M](#), [Grus F](#), [Lingor P](#) (2015) Biomarker sources for Parkinson's disease: Time to shed tears? *Basal ganglia* 5 (2-3): 63-69, doi: 10.1016/j.baga.2015.05.001
7. [Büchner A](#), [Krumova P](#), [Ganesan S](#), [Bähr M](#), [Eckermann K](#), [Weishaupt JH](#) (2015) Sumoylation of p35 modulates p35/cyclin-dependent kinase (Cdk) 5 complex activity. *NEUROMOL MED* 17(1): 12-23, doi: 10.1007/s12017-014-8336-4
8. [Carboni E](#), [Lingor P](#) (2015) Insights on the interaction of alpha-synuclein and metals in the pathophysiology of Parkinson's disease. *METALLOMICS* 7(3): 395-404, doi: 10.1039/c4mt00339j
9. [Challagundla M](#), [Koch JC](#), [Ribas VT](#), [Michel U](#), [Kügler S](#), [Ostendorf T](#), [Bradke F](#), [Müller HW](#), [Bähr M](#), [Lingor P](#) (2015) AAV-mediated expression of BAG1 and ROCK2-shRNA promote neuronal survival and axonal sprouting in a rat model of rubrospinal tract injury. *J NEUROCHEM* 134(2): 261-75, doi: 10.1111/jnc.13102
10. [Cramm M](#), [Schmitz M](#), [Karch A](#), [Zafar S](#), [Varges D](#), [Mitrova E](#), [Schroeder B](#), [Raeber A](#), [Kuhn F](#), [Zerr I](#) (2015) Characteristic CSF prion seeding efficiency in humans with prion diseases. *MOL NEUROBIOL* 51(1): 396-405, doi: 10.1007/s12035-014-8709-6
11. [de Hoz L](#), [Simons M](#) (2015) The emerging functions of oligodendrocytes in regulating neuronal network behaviour. *BIOESSAYS* 37(1): 60-9, doi: 10.1002/bies.201400127
12. [De Paepe B](#), [Zschüntzsch J](#) (2015) Scanning for Therapeutic Targets within the Cytokine Network of Idiopathic Inflammatory Myopathies. *INT J MOL SCI* 16(8): 18683-713, doi: 10.3390/ijms160818683
13. [Dennerlein S](#), [Oeljeklaus S](#), [Jans D](#), [Hellwig C](#), [Bareth B](#), [Jakobs S](#), [Deckers M](#), [Warscheid B](#), [Rehling P](#) (2015) MITRAC7 Acts as a COX1-Specific Chaperone and Reveals a Checkpoint during Cytochrome c Oxidase Assembly. *CELL REP* 12(10): 1644-55, doi: 10.1016/j.celrep.2015.08.009
14. [Doeppner TR](#), [Kaltwasser B](#), [Schlechter J](#), [Jaschke J](#), [Kilic E](#), [Bähr M](#), [Hermann DM](#), [Weise J](#) (2015) Cellular prion protein promotes post-ischemic neuronal survival, angiogenesis and enhances neural progenitor cell homing via proteasome inhibition. *CELL DEATH DIS* 6: e2024, doi: 10.1038/cddis.2015.365
15. [Doeppner TR](#), [Kaltwasser B](#), [Teli MK](#), [Sanchez-Mendoza EH](#), [Kilic E](#), [Bähr M](#), [Hermann DM](#) (2015) Post-stroke transplantation of adult subventricular zone derived neural progenitor cells--A comprehensive analysis of cell delivery routes and their underlying mechanisms. *EXP NEUROL* 273: 45-56, doi: 10.1016/j.expneurol.2015.07.023
16. [Doeppner TR](#), [Pehlke JR](#), [Kaltwasser B](#), [Schlechter J](#), [Kilic E](#), [Bähr M](#), [Hermann DM](#) (2015) The indirect NMDAR antagonist acamprosate induces postischemic neurologic recovery associated with sustained neuroprotection and neuroregeneration. *J CEREBR BLOOD F MET* 35(12): 2089-97, doi: 10.1038/jcbfm.2015.179
17. [Duarte-Neves J](#), [Gonçalves N](#), [Cunha-Santos J](#), [Simões AT](#), [den Dunnen WFA](#), [Hirai H](#), [Kügler S](#), [Cavadas C](#), [Pereira de Almeida L](#) (2015) Neuropeptide Y mitigates neuropathology and motor deficits in mouse models of Machado-Joseph disease. *HUM MOL GENET* 24(19): 5451-63, doi: 10.1093/hmg/ddv271
18. [Dučić T](#), [Carboni E](#), [Lai B](#), [Chen S](#), [Michalke B](#), [Lázaro DF](#), [Outeiro TF](#), [Bähr M](#), [Barski E](#), [Lingor P](#) (2015) Alpha-Synuclein Regulates Neuronal Levels of Manganese and Calcium. *ACS CHEM NEUROSCI* 6(10): 1769-79, doi: 10.1021/acschemneuro.5b00093
19. [Duwé S](#), [De Zitter E](#), [Gielen V](#), [Moeyaert B](#), [Vandenberg W](#), [Grotjohann T](#), [Clays K](#), [Jakobs S](#), [Van Meervelt L](#), [Dedecker P](#) (2015) Expression-Enhanced Fluorescent Proteins Based on Enhanced Green Fluorescent Protein for Super-resolution Microscopy. *ACS NANO* 9(10): 9528-41, doi: 10.1021/acsnano.5b04129

20. [Eckermann K](#), [Kügler S](#), [Bähr M](#) (2015) Dimerization propensities of Synucleins are not predictive for Synuclein aggregation. *BICHIM BIOPHYS ACTA* 1852(8): 1658-64, doi: 10.1016/j.bbadis.2015.05.002
21. [Eidizadeh A](#), [Khajehalichalehshtari M](#), Freyer D, [Trendelenburg G](#) (2015) Assessment of the Therapeutic Potential of Metallothionein-II Application in Focal Cerebral Ischemia In Vitro and In Vivo. *PLOS ONE* 10(12): e0144035, doi: 10.1371/journal.pone.0144035
22. Engel KR, Obst K, Bandelow B, Dechent P, Gruber O, [Zerr I](#), Ulrich K, Wedekind D (2015) Functional MRI activation in response to panic-specific, non-panic aversive, and neutral pictures in patients with panic disorder and healthy controls. *EUR ARCH PSY CLIN N* -: 10.1007/s00406-015-0653-6, doi: 10.1007/s00406-015-0653-6
23. Erdmann F, [Kügler S](#), Blaesse P, Lange MD, Skryabin BV, Pape HC, Jüngling K (2015) Neuronal expression of the human neuropeptide S receptor NPSR1 identifies NPS-induced calcium signaling pathways. *PLOS ONE* 10(2): e0117319, doi: 10.1371/journal.pone.0117319
24. Gao L, Brenner D, Llorens-Bobadilla E, Saiz-Castro G, [Frank T](#), Wieghofer P, Hill O, Thiemann M, Karray S, Prinz M, Weishaupt JH, Martin-Villalba A (2015) Infiltration of circulating myeloid cells through CD95L contributes to neurodegeneration in mice. *J EXP MED* 212(4): 469-80, doi: 10.1084/jem.20132423
25. Geisler S, Beindorff N, Cremer M, Hoffmann K, Brenner W, Cumming P, Meyer PT, Langen KJ, [Fuchs E](#), Buchert R (2015) Characterization of [123I]FP-CIT binding to the dopamine transporter in the striatum of tree shrews by quantitative in vitro autoradiography. *SYNAPSE* 69(10): 497-504, doi: 10.1002/syn.21838
26. Guerreiro PS, Gerhardt E, Lopes da Fonseca T, [Bähr M](#), Outeiro TF, [Eckermann K](#) (2015) LRRK2 Promotes Tau Accumulation, Aggregation and Release. *MOL NEUROBIOL* -: -, doi: 10.1007/s12035-015-9209-z
27. [Herold S](#), [Kumar P](#), Wichert SP, Kretzschmar B, [Bähr M](#), Rossner MJ, [Hein K](#) (2015) Neurodegeneration in Autoimmune Optic Neuritis Is Associated with Altered APP Cleavage in Neurons and Up-Regulation of p53. *PLOS ONE* 10(10): e0138852, doi: 10.1371/journal.pone.0138852
28. Hudson G, Uphill J, Hummerich H, Blevins J, Gambetti P, [Zerr I](#), Collinge J, Mead S, Chinnery PF (2015) Inherited mtDNA variations are not strong risk factors in human prion disease. *NEUROBIOL AGING* 36(10): 2908.e1-3, doi: 10.1016/j.neurobiolaging.2015.07.005
29. Ilgen P, Grotjohann T, [Jans DC](#), Kilisch M, Hell SW, [Jakobs S](#) (2015) RESOLFT Nanoscopy of Fixed Cells Using a Z-Domain Based Fusion Protein for Labelling. *PLOS ONE* 10(9): e0136233, doi: 10.1371/journal.pone.0136233
30. [Ilse B](#), Alt-Epping B, Kiesewetter I, Elsner F, Hildebrandt J, Laske A, Scherg A, Schiessl C, Working Group on Medical Education of the German Society of Palliative Medicine (AG Bildung der DGP) (2015) Undergraduate education in palliative medicine in Germany: a longitudinal perspective on curricular and infrastructural development. *BMC MED EDUC* 15(1): 151, doi: 10.1186/s12909-015-0439-6
31. Jaeger HM, Pehlke JR, Kaltwasser B, Kilic E, [Bähr M](#), Hermann DM, Doepfner TR (2015) The indirect NMDAR inhibitor flupirtine induces sustained post-ischemic recovery, neuroprotection and angiogenesis. *ONCOTARGET* 6(16): 14033-44, doi: 10.18632/oncotarget.4226
32. Jüngling K, Lange MD, Szkudlarek HJ, Lesting J, Erdmann FS, Doengi M, [Kügler S](#), Pape HC (2015) Increased GABAergic Efficacy of Central Amygdala Projections to Neuropeptide S Neurons in the Brainstem During Fear Memory Retrieval. *NEUROPSYCHOPHARMACOL* 40(12): 2753-63, doi: 10.1038/npp.2015.125
33. [Karch A](#), [Hermann P](#), [Ponto C](#), [Schmitz M](#), [Arora A](#), [Zafar S](#), [Llorens F](#), [Müller-Heine A](#), [Zerr I](#) (2015) Cerebrospinal fluid tau levels are a marker for molecular subtype in sporadic Creutzfeldt-Jakob disease. *NEUROBIOL AGING* 36(5): 1964-8, doi: 10.1016/j.neurobiolaging.2015.01.021
34. Kehrein K, Schilling R, Möller-Hergt BV, Wurm CA, [Jakobs S](#), Lamkemeyer T, Langer T, Ott M (2015) Organization of Mitochondrial Gene Expression in Two Distinct Ribosome-Containing Assemblies. *CELL REP* in press: in press, doi: 10.1016/j.celrep.2015.01.012
35. [Kermer P](#), Köhn A, [Schnieder M](#), [Lingor P](#), [Bähr M](#), [Liman J](#), [Dohm CP](#) (2015) BAG1 is neuroprotective in vivo and in vitro models of Parkinson's disease. *J MOL NEUROSCI* 55(3): 587-95, doi: 10.1007/s12031-014-0396-2
36. Kleiter I, [Weber MS](#) (2015) Aktuelles aus der Forschung. *Aktuel Neurol* 42: 172-173
37. Kleiter I, [Weber MS](#) (2015) Aktuelles aus der Forschung - Kompetenznetz Multiple Sklerose. *Aktuel Neurol* 42: 549-550
38. [Koch JC](#), [Bitow F](#), [Haack J](#), [d'Hedouville Z](#), [Zhang JN](#), [Tönges L](#), [Michel U](#), [Oliveira LMA](#), [Jovin TM](#), [Liman J](#), [Tatenhorst L](#), [Bähr M](#), [Lingor P](#) (2015) Alpha-Synuclein affects neurite morphology, autophagy, vesicle transport and axonal degeneration in CNS neurons. *CELL DEATH DIS* 6: e1811, doi: 10.1038/cddis.2015.169
39. Kramann N, Neid K, Menken L, Schlumbohm C, Stadelmann C, [Fuchs E](#), Brück W, Wegner C (2015) Increased Meningeal T and Plasma Cell Infiltration is Associated with Early Subpial Cortical Demyelination in Common Marmosets with Experimental Autoimmune Encephalomyelitis. *BRAIN PATHOL* 25(3): 276-86, doi: 10.1111/bpa.12180

40. [Krasnianski A](#), Bohling GT, Harden M, [Zerr I](#) (2015) Psychiatric symptoms in patients with sporadic Creutzfeldt-Jakob disease in Germany. *J CLIN PSYCHIAT* 76(9): 1209-15, doi: 10.4088/JCP.13m08915
41. [Krasnianski A](#), [Heinemann U](#), [Ponto C](#), Kortt J, Kallenberg K, [Varges D](#), Schulz-Schaeffer WJ, Kretzschmar HA, [Zerr I](#) (2015) Clinical findings and diagnosis in genetic prion diseases in Germany. *EUR J EPIDEMIOL* in press: in press, doi: 10.1007/s10654-015-0049-y
42. [Krey L](#), Lühder F, Kusch K, [Czech-Zechmeister B](#), [Könnecke B](#), Fleming Outeiro T, [Trendelenburg G](#) (2015) Knockout of silent information regulator 2 (SIRT2) preserves neurological function after experimental stroke in mice. *J CEREBR BLOOD F MET* 35(12): 2080-8, doi: 10.1038/jcbfm.2015.178
43. Kukat C, Davies KM, Wurm CA, Spähr H, Bonekamp NA, Kühl I, Joos F, Polosa PL, Park CB, Posse V, Falkenberg M, [Jakobs S](#), Kühlbrandt W, Larsson NG (2015) Cross-strand binding of TFAM to a single mtDNA molecule forms the mitochondrial nucleoid. *P NATL ACAD SCI USA* 112(36): 11288-93, doi: 10.1073/pnas.1512131112
44. [Kumar P](#), [Friebe K](#), [Schallhorn R](#), [Moinfar Z](#), Nau R, [Bähr M](#), Schütze S, [Hein K](#) (2015) Systemic *Escherichia coli* infection does not influence clinical symptoms and neurodegeneration in experimental autoimmune encephalomyelitis. *BMC NEUROSCI* 16: 36, doi: 10.1186/s12868-015-0172-4
45. [Kumar P](#), [Kretzschmar B](#), [Herold S](#), Nau R, Kretzfeldt M, Schütze S, [Bähr M](#), [Hein K](#) (2015) Beneficial effect of chronic *Staphylococcus aureus* infection in a model of multiple sclerosis is mediated through the secretion of extracellular adherence protein. *J NEUROINFLAMM* 12: 22, doi: 10.1186/s12974-015-0241-8
46. Kunadt M, [Eckermann K](#), Stüendl A, Gong J, Russo B, Strauss K, Rai S, [Kügler S](#), Falomir Lockhart L, Schwalbe M, [Krumova P](#), Oliveira LMA, [Bähr M](#), Möbius W, Levin J, Giese A, Kruse N, Mollenhauer B, Geiss-Friedlander R, Ludolph AC, Freischmidt A, Feiler MS, Danzer KM, Zweckstetter M, Jovin TM, [Simons M](#), [Weishaupt JH](#), Schneider A (2015) Extracellular vesicle sorting of  $\alpha$ -Synuclein is regulated by sumoylation. *ACTA NEUROPATHOL* 129(5): 695-713, doi: 10.1007/s00401-015-1408-1
47. Langenkamp E, Zhang L, Lugano R, Huang H, Elhassan TEA, Georganaki M, Bazzar W, Löff J, [Trendelenburg G](#), Essand M, Pontén F, Smits A, Dimberg A (2015) Elevated expression of the C-type lectin CD93 in the glioblastoma vasculature regulates cytoskeletal rearrangements that enhance vessel function and reduce host survival. *CANCER RES* 75(21): 4504-16, doi: 10.1158/0008-5472.CAN-14-3636
48. [Llorens F](#), Kruse N, [Schmitz M](#), [Shafiq M](#), da Cunha JEG, [Gotzman N](#), [Zafar S](#), [Thune K](#), de Oliveira JRM, Mollenhauer B, [Zerr I](#) (2015) Quantification of CSF biomarkers using an electrochemiluminescence-based detection system in the differential diagnosis of AD and sCJD. *J NEUROL* 262(10): 2305-11, doi: 10.1007/s00415-015-7837-x
49. [Llorens F](#), [Schmitz M](#), [Gloeckner SE](#), [Kaerst L](#), [Hermann P](#), [Schmidt C](#), [Varges D](#), [Zerr I](#) (2015) Increased albumin CSF/serum ratio in dementia with Lewy bodies. *J NEUROL SCI* 358(1-2): 398-403, doi: 10.1016/j.jns.2015.10.011
50. [Llorens F](#), [Schmitz M](#), [Karch A](#), [Cramm M](#), [Lange P](#), [Gherib K](#), [Varges D](#), [Schmidt C](#), [Zerr I](#), [Stoock K](#) (2015) Comparative analysis of cerebrospinal fluid biomarkers in the differential diagnosis of neurodegenerative dementia. *ALZHEIMERS DEMENT* in press: in press, doi: 10.1016/j.jalz.2015.10.009
51. Lukic A, Uphill J, Brown CA, Beck J, Poulter M, Campbell T, Adamson G, Hummerich H, Whitfield J, [Ponto C](#), [Zerr I](#), Lloyd SE, Collinge J, Mead S (2015) Rare structural genetic variation in human prion diseases. *NEUROBIOL AGING* 36(5): 2004.e1-8, doi: 10.1016/j.neurobiolaging.2015.01.011
52. [Maier IL](#), [Karch A](#), Mikolajczyk R, [Bähr M](#), [Liman J](#) (2015) Effect of beta-blocker therapy on the risk of infections and death after acute stroke--a historical cohort study. *PLOS ONE* 10(2): e0116836, doi: 10.1371/journal.pone.0116836
53. Montes-Cobos E, Li X, Fischer HJ, Sasse A, [Kügler S](#), Didié M, Toischer K, Fassnacht M, Dressel R, Reichardt HM (2015) Inducible Knock-Down of the Mineralocorticoid Receptor in Mice Disturbs Regulation of the Renin-Angiotensin-Aldosterone System and Attenuates Heart Failure Induced by Pressure Overload. *PLOS ONE* 10(11): e0143954, doi: 10.1371/journal.pone.0143954
54. Mühlhausen J, [Kitze B](#), Huppke P, Müller GA, Koziol MJ (2015) Apheresis in treatment of acute inflammatory demyelinating disorders. *ATHEROSCLEROSIS SUPP* 18: 251-6, doi: 10.1016/j.atherosclerosisup.2015.02.037
55. [Muth IE](#), [Zschüntzsch J](#), Kleinschnitz K, Wrede A, Gerhardt E, Balcarek P, Schreiber-Katz O, Zierz S, Dalakas MC, Voll RE, Schmidt J (2015) HMGB1 and RAGE in skeletal muscle inflammation: Implications for protein accumulation in inclusion body myositis. *EXP NEUROL* 271: 189-97, doi: 10.1016/j.expneurol.2015.05.023
56. Mwape KE, [Blocher J](#), Wiefek J, Schmidt K, Dorny P, Praet N, Chiluba C, Schmidt H, Phiri IK, Winkler AS, Gabriél S (2015) Prevalence of Neurocysticercosis in People with Epilepsy in the Eastern Province of Zambia. *PLOS NEGLECT TROP D* 9(8): e0003972, doi: 10.1371/journal.pntd.0003972
57. Nau R, Djukic M, [Spreer A](#), Eiffert H (2015) Infektionen im Alter-Was macht sie so gefährlich? *Allgemeinarzt* 37: 40-44
58. Nau R, Djukic M, [Spreer A](#), Ribes S, Eiffert H (2015) Bacterial meningitis: an update of new treatment options. *EXPERT REV ANTI-INFE* 13(11): 1401-23, doi: 10.1586/14787210.2015.1077700

59. Nawaz S, Sánchez P, Schmitt S, Snaidero N, Mitkovski M, Velte C, Brückner BR, Alexopoulos I, Czopka T, Jung SY, Rhee JS, Janshoff A, Witke W, Schaap IAT, Lyons DA, Simons M (2015) Actin filament turnover drives leading edge growth during myelin sheath formation in the central nervous system. *DEV CELL* 34(2): 139-51, doi: 10.1016/j.devcel.2015.05.013
60. Oliveira LMA, Falomir-Lockhart LJ, Botelho MG, Lin KH, Wales P, Koch JC, Gerhardt E, Taschenberger H, Outeiro TF, Lingor P, Schüle B, Arndt-Jovin DJ, Jovin TM (2015) Elevated  $\alpha$ -synuclein caused by SNCA gene triplication impairs neuronal differentiation and maturation in Parkinson's patient-derived induced pluripotent stem cells. *CELL DEATH DIS* 6: e1994, doi: 10.1038/cddis.2015.318
61. Paschke K, Kagan I, Wüstenberg T, Bähr M, Wilke M (2015) Trunk rotation affects temporal order judgments with direct saccades: Influence of handedness. *NEUROPSYCHOLOGIA* 79(Pt A): 123-37, doi: 10.1016/j.neuropsychologia.2015.10.031
62. Prange H (2015) Schock ohne Blutverlust: An neurogene Ursachen denken. *Allgemeinarzt* 12: 52-54
63. Prell T, Hartung V, Tietz F, Penzlin S, Ilse B, Schweser F, Deistung A, Bokemeyer M, Reichenbach JR, Witte OW, Grosskreutz J (2015) Susceptibility-weighted imaging provides insight into white matter damage in amyotrophic lateral sclerosis. *PLOS ONE* 10(6): e0131114, doi: 10.1371/journal.pone.0131114
64. Ramljak S, Schmitz M, Zafar S, Wrede A, Schenkel S, Asif AR, Carimalo J, Doepfner TR, Schulz-Schaeffer WJ, Weise J, Zerr I (2015) Cellular prion protein directly interacts with and enhances lactate dehydrogenase expression under hypoxic conditions. *EXP NEUROL* 271: 155-67, doi: 10.1016/j.expneurol.2015.04.025
65. Ratz M, Testa I, Hell SW, Jakobs S (2015) CRISPR/Cas9-mediated endogenous protein tagging for RESOLFT super-resolution microscopy of living human cells. *SCI REP-UK* 5: 9592, doi: 10.1038/srep09592
66. Reiber H, Kruse-Sauter H, Quentin CD (2015) Antibody patterns vary arbitrarily between cerebrospinal fluid and aqueous humor of the individual multiple sclerosis patient: specificity-independent pathological B cell function. *J NEUROIMMUNOL* 278: 247-54, doi: 10.1016/j.jneuroim.2014.11.013
67. Ribas VT, Lingor P (2015) Autophagy in degenerating axons following spinal cord injury: evidence for autophagosome biogenesis in retraction bulbs. *NEURAL REGEN RES* 10(2): 198-200, doi: 10.4103/1673-5374.152367
68. Ribas VT, Schnepf B, Challagundla M, Koch JC, Bähr M, Lingor P (2015) Early and sustained activation of autophagy in degenerating axons after spinal cord injury. *BRAIN PATHOL* 25(2): 157-70, doi: 10.1111/bpa.12170
69. Saal KA, Koch JC, Tatenhorst L, Szegő EM, Ribas VT, Michel U, Bähr M, Tönges L, Lingor P (2015) AAV.shRNA-mediated downregulation of ROCK2 attenuates degeneration of dopaminergic neurons in toxin-induced models of Parkinson's disease in vitro and in vivo. *NEUROBIOL DIS* 73: 150-62, doi: 10.1016/j.nbd.2014.09.013
70. Sakowska P, Jans DC, Mohanraj K, Riedel D, Jakobs S, Chacinska A (2015) The Oxidation Status of Mic19 Regulates MICOS Assembly. *MOL CELL BIOL* 35(24): 4222-37, doi: 10.1128/MCB.00578-15
71. Schmidt C, Gerlach N, Peter C, Gherib K, Lange K, Friede T, Zerr I (2015) Cerebrospinal fluid apolipoprotein E concentration and progression of Alzheimer's disease. *J ALZHEIMERS DIS* 43(4): 1229-36, doi: 10.3233/JAD-141581
72. Schmidt C, Gerlach N, Schmitz M, Thom T, Kramer K, Friede T, Zerr I (2015) Baseline CSF/Serum-Ratio of Apolipoprotein E and Rate of Differential Decline in Alzheimer's Disease. *J ALZHEIMERS DIS* 48(1): 189-96, doi: 10.3233/JAD-150286
73. Schmidt H, Djukic M, Jung K, Holzgraefe M, Dechent P, von Steinbüchel N, Blocher J, Eiffert H, Schmidt-Samoa C (2015) Neurocognitive functions and brain atrophy after proven neuroborreliosis: a case-control study. *BMC NEUROL* 15: 139, doi: 10.1186/s12883-015-0386-1
74. Schmitt S, Castelvetri LC, Simons M (2015) Metabolism and functions of lipids in myelin. *BICHIM BIOPHYS ACTA* 1851(8): 999-1005, doi: 10.1016/j.bbaliip.2014.12.016
75. Schmitz M, Ebert E, Stoeck K, Karch A, Collins S, Calero M, Sklaviadis T, Laplanche JL, Golanska E, Baldeiras I, Satoh K, Sanchez-Valle R, Ladogana A, Skinningsrud A, Hammarin AL, Mitrova E, Llorens F, Kim YS, Green A, Zerr I (2015) Validation of 14-3-3 Protein as a Marker in Sporadic Creutzfeldt-Jakob Disease Diagnostic. *MOL NEUROBIOL* in press, doi: 10.1007/s12035-015-9167-5
76. Schmitz M, Hermann P, Oikonomou P, Stoeck K, Ebert E, Poliakova T, Schmidt C, Llorens F, Zafar S, Zerr I (2015) Cytokine profiles and the role of cellular prion protein in patients with vascular dementia and vascular encephalopathy. *NEUROBIOL AGING* 36(9): 2597-606, doi: 10.1016/j.neurobiolaging.2015.05.013
77. Schöfer H, Weberschock T, Bräuninger W, Bremer V, Dreher A, Enders M, Esser S, Hamouda O, Hagedorn HJ, Handrick W, Krause W, Mayr C, Münstermann D, Nast A, Ochsendorf F, Petry U, Potthoff A, Prange H, Rieg S, Schneede P, Sing A, Weber J, Wichelhaus TA, Brockmeyer N (2015) S2k guideline\* "Diagnosis and therapy of syphilis"--short version. *J DTSCH DERMATOL GES* 13(5): 472-80, doi: 10.1111/ddg.12574
78. Sharma K, Schmitt S, Bergner CG, Tyanova S, Kannaiyan N, Manrique-Hoyos N, Kongi K, Cantuti L, Hanisch UK, Philips MA, Rossner MJ, Mann M, Simons M (2015) Cell type- and brain region-resolved mouse brain proteome. *NAT NEUROSCI* 18(12): 1819-31, doi: 10.1038/nn.4160

79. Simons M, Nave KA (2015) Oligodendrocytes: Myelination and Axonal Support. CSH PERSPECT BIOL 8(1): e, doi: 10.1101/cshperspect.a020479
80. Spreer A, Nau R (2015) [Cerebrospinal fluid diagnostics for neuroinfectious diseases]. FORTSCHR NEUROL PSYC 83(2): 109-22, doi: 10.1055/s-0034-1398932
81. Stassart RM, Helms G, Garea-Rodríguez E, Nessler S, Hayardeny L, Wegner C, Schlumbohm C, Fuchs E, Brück W (2015) A New Targeted Model of Experimental Autoimmune Encephalomyelitis in the Common Marmoset. BRAIN PATHOL in press: in press, doi: 10.1111/bpa.12292
82. Stoeck K, Carstens PO, Jarius S, Raddatz D, Stöcker W, Wildemann B, Schmidt J (2015) Prednisolone and azathioprine are effective in DPPX antibody-positive autoimmune encephalitis. Neurol Neuroimmunol Neuroinflamm 2(3): e86, doi: 10.1212/NXI.0000000000000086
83. Sun X, Bakhti M, Fitzner D, Schnaars M, Kruse N, Coskun Ü, Kremser C, Willecke K, Kappos L, Kuhle J, Simons M (2015) Quantified CSF antibody reactivity against myelin in multiple sclerosis. Ann Clin Transl Neurol 2(12): 1116-23, doi: 10.1002/acn3.264
84. W Hell S, J Sahl S, Bates M, Zhuang X, Heintzmann R, Booth MJ, Bewersdorf J, Shtengel G, Hess H, Tinnefeld P, Honigsmann A, Jakobs S, Testa I, Cognet L, Lounis B, Ewers H, J Davis S, Eggeling C, Klenerman D, I Willig K, Vicidomini G, Castello M, Cordes ADT (2015) The 2015 super-resolution microscopy roadmap. J PHYS D APPL PHYS 48: 1-35, doi: 10.1088/0022-3727/48/44/443001
85. Wagner J, Krauss S, Shi S, Ryazanov S, Steffen J, Miklitz C, Leonov A, Kleinknecht A, Göricke B, Weishaupt JH, Weckbecker D, Reiner AM, Zinth W, Levin J, Ehninger D, Remy S, Kretzschmar HA, Griesinger C, Giese A, Fuhrmann M (2015) Reducing tau aggregates with anle138b delays disease progression in a mouse model of tauopathies. ACTA NEUROPATHOL 130(5): 619-31, doi: 10.1007/s00401-015-1483-3
86. Walter A, Andresen M, Jakobs S, Schroeder J, Schwarzer D (2015) Primary light-induced reaction steps of reversibly photoswitchable fluorescent protein Padron0.9 investigated by femtosecond spectroscopy. J PHYS CHEM B 119(16): 5136-44, doi: 10.1021/jp512610q
87. Zafar S, Schmitz M, Younus N, Tahir W, Shafiq M, Llorens F, Ferrer I, Andéoletti O, Zerr I (2015) Creutzfeldt-Jakob Disease Subtype-Specific Regional and Temporal Regulation of ADP Ribosylation Factor-1-Dependent Rho/MLC Pathway at Pre-Clinical Stage. J MOL NEUROSCI 56(2): 329-48, doi: 10.1007/s12031-015-0544-3
88. Zschüntzsch J, Zhang Y, Klinker F, Makosch G, Klinge L, Malzahn D, Brinkmeier H, Liebetanz D, Schmidt J (2015) Treatment with human immunoglobulin G improves the early disease course in a mouse model of Duchenne muscular dystrophy. J NEUROCHEM NN: NN, doi: 10.1111/jnc.13269

### Buchbeiträge

1. Göricke B, Frank T, Schmidt J, Bähr M (2015) Degenerative Motoneuronenerkrankungen. In: CD Reimers, I Reuter, B Tettenborn, A Broocks, N Thürauf, G. Knapp (Hrsg.) Prävention und Therapie durch Sport. Band 2: Neurologie, Psychiatrie/Psychosomatik, Schmerzsyndrome. Elsevier, 211-225
2. Llorens F, Nuhn S, Peter C, Zerr I, Stoeck K (2015) New Frontiers in Alzheimer's Disease Diagnosis. In: Inga Zerr (Hrsg.) Alzheimer's Disease - Challenges for the Future. InTech - Open Access Publisher, Rijeka / Croatia, 1-38
3. Prange H (2015) Therapiebegrenzung aus medizinischer Sicht. In: Grisold W, Berlit P (Hrsg.) Aktuelle Therapie in der Neurologie. Ecomed Verlag, Heidelberg, XXXII-1-9
4. Schmidt J (2015) Neuromuskuläres Zentrum Göttingen. In: R. Dengler, B. Neundörfer, H. Ganter (Hrsg.) Jahrbuch der Dt. Gesellschaft für Muskelkranke e.V. und ihrer Neuromuskulären Zentren 2014. AWS Medienverlag, Ettlingen, 48-55, 227-229
5. Spreer A (2015) Detection of Infectious Agents. In: Deisenhammer, Sellebjerg, Teunissen (Hrsg.) Cerebrospinal Fluid in Clinical Neurology. Springer, 131-142

### Monographien

Zerr I (2015) Alzheimer's Disease - Challenges for the Future. InTech - Open Access Publisher, Online, Seiten: 370

### Habilitationen

Liman J (2015) Entstehung und Modulation von Proteinaggregationen bei ausgewählten Polyglutamin Erkrankungen. Habilitation Universität Göttingen.

**Medizinische Dissertationen**

1. Günther R, Dr. med. (2015) Pharmakologische Inhibition von Rho-Kinase im Mausmodell der Amyotrophen Lateralsklerose. Dissertation Universität Göttingen.
2. Lemke H, Dr. med. (2015) Liquormarker in der Diagnostik bei Patienten mit Morbus Parkinson, Parkinson-Demenz-Komplex und Morbus Alzheimer. Dissertation Universität Göttingen.
3. Neher M, Dr. med. (2015) Synaptic Vesicles, Mitochondria, and Actin Alterations in SMN-deficient Mice. Dissertation Universität Göttingen.
4. Ostendorf T, Dr. med. (2015) Die Rolle von HGF für Neuroprotektion und axonale Regeneration im Nervus opticus der Ratte. Dissertation Universität Göttingen.
5. Schenkel S, Dr. med. (2015) Einfluss des zellulären Prion-Proteins auf die LDH-Expression unter oxidativen Stressbedingungen. Dissertation Universität Göttingen.

**Naturwiss. u.a. nichtmed. Diss.**

1. Cramm M, Dr. rer. nat. (2015) Untersuchungen zu den selbst-replizierenden Eigenschaften des pathogenen Prion-Proteins beim Menschen. Dissertation Georg-August-Universität Göttingen.
2. Saal KA, PhD (2015) Modulation of the ROCK pathway in models of Parkinson's disease. Dissertation Georg-August-Universität Göttingen.
3. Singh Arora A, Dr. rer. nat. (2015) Functional proteome analysis of age associated PrPC knockout mice liver along with regulatory response of cytoskeleton associated tau protein and fatty liver disease. Dissertation Georg-August-Universität Göttingen.
4. Zhang JN, PhD (2015) Molecular mechanisms of acute axonal degeneration in the rat optic nerve. Dissertation Georg-August-Universität Göttingen.