

Hartmut Wekerle - List of Publications – 2014-2017

2017

Kyratsous NI, Bauer IJ, Zhang G, Pesic M, Bartholomäus I, Mues M, Fang P, Wörner M, Everts S, Ellwart JW, Watt JM, Potter BVL, Hohlfeld R, Wekerle H, Kawakami N (2017). Visualizing context-dependent calcium signaling in encephalitogenic T cells in vivo by two-photon microscopy. PNAS, doi: 10.1073/pnas.1701806114

Wekerle H (2017). Brain Autoimmunity and Intestinal Microbiota: 100 Trillion Game Changers. Trends Immunol 38(7): 483-497

Wekerle H (2017). B Cells in Multiple Sclerosis. Autoimmunity 50(1): 57-60

2016

Wekerle H (2016). The gut-brain connection: triggering of brain autoimmune disease by commensal gut bacteria. Rheumatology 55(suppl2):ii68-ii75 (invited review)

Brändle SM, Obermeier B, Senel M, Bruder J, Mentele R, Khademi M, Olsson T, Tumani H, Kristoferitsch , Lottspeich F, Wekerle H, Hohlfeld R, Dornmair K (2016). Distinct oligoclonal band antibodies in multiple sclerosis recognize ubiquitous self-proteins. PNAS 113(28): 7864-7869

Hohlfeld R, Dornmair K, Meinl E, Wekerle H (2016). The search for the target antigens of multiple sclerosis, part 1: autoreactive CD4+ T lymphocytes as pathogenic effectors and therapeutic targets. Lancet Neurol 15: 198-209

Hohlfeld R, Dornmair K, Meinl E, Wekerle H (2016). The search for the target antigens of multiple sclerosis, part 2: CD8+ T cells, B cells, and antibodies in the focus of reverse-translational research. Lancet Neurol 15: 317-331

2015

Azghandi S, Prell C, van der Laan SW, Schneider M, Malik R, Berer K, Gerdes N, Pasterkamp G, Weber C, Haffner C, Dichgans M (2015). Deficiency of the Stroke Relevant Hdac9 Gene Attenuates Atherosclerosis in Accord with Allele-Specific Effects at 7p21.1. Stroke 46(1):197-202, doi: 10.1161/STROKEAHA.114.007213. Epub 2014 Nov 11

Rumble JM, Huber AK, Krishnamoorthy G, Srinivasan A, Giles DA, Zhang X, Wang L, Segal BM (2015). Neutrophil-related factors as biomarkers in EAE and MS. J Exp Med 212:23-35

Wekerle H (2015). Nature plus nurture: the triggering of multiple sclerosis. Swiss Med Wkly 145: w14189, doi: 10.4414/smw.2015.14189

Wekerle H (2015). Vaccination and narcolepsy: Immune link found? Sci Transl Med 7(294):294fs27, doi: 10.1126/scitranslmed.aac7091

Hohlfeld R, Wekerle H (2015). Multiple sclerosis and microbiota. From genome to metagenome? *Nervenarzt* 86(8):925-33, doi: 10.1007/s00115-014-4248-7

Laurent SA, Hoffmann FS, Kuhn PH, Cheng Q, Chu Y, Schmidt-Supprian M, Hauck SM, Schuh E, Krumbholz M, Rübsamen H, Wanngren J, Khademi M, Olsson T, Alexander T, Hiepe F, Pfister HW, Weber F, Jenne D, Wekerle H, Hohlfeld R, Lichtenthaler SF, Meinl E (2015). γ -Secretase directly sheds the survival receptor BCMA from plasma cells. *Nat Commun* 6:7333, doi: 10.1038/ncomms8333

Held K, Bhonsle-Deeng L, Siewert K, Sato W, Beltrán E, Schmidt S, Rühl G, Ng JK, Engerer P, Moser M, Klinkert WE, Babbe H, Misgeld T, Wekerle H, Laplaud DA, Hohlfeld R, Dornmair K (2015). $\alpha\beta$ T-cell receptors from multiple sclerosis brain lesions show MAIT cell-related features. *Neurol Neuroimmunol Neuroinflamm* 2(4):e107, doi: 10.1212/NXI.000000000000107. eCollection 2015

Nicol B, Salou M, Laplaud DA, Wekerle H (2015). The autoimmune concept of multiple sclerosis. *Presse Med* 44(4 Pt 2):e103-12, doi: 10.1016/j.lpm.2015.02.009. Epub 2015 Mar 23

2014

Koutouros M, Berer K, Kawakami N, Wekerle H, Krishnamoorthy G (2014). Treg cells mediate recovery from EAE by controlling effector T cell proliferation and motility in the CNS. *Acta Neuropathol Commun* 2: 163

Mohan H, Friese A, Albrecht S, Krumbholz M, Elliott CL, Arthur A, Menon R, Farina C, Junker A, Stadelmann C, Barnett SC, Huitinga I, Wekerle H, Hohlfeld R, Lassmann H, Kuhlmann T, Linington C, Meinl E (2014). Transcript profiling of different types of multiple sclerosis lesions yields FGF1 as a promoter of remyelination. *Acta Neuropathol Commun* 2(1):178

Ben-Nun A, Kaushansky N, Kawakami N, Krishnamoorthy G, Berer K, Liblau R, Hohlfeld R, Wekerle H (2014). From classic to spontaneous and humanized models of multiple sclerosis: Impact on understanding pathogenesis and drug development. *J Autoimmun* S0896-8411(14) 00101-2, doi: 10.1016/j.jaut.2014.06.004

Eberle M, Ebel P, Wegner MS, Männich J, Tafferner N, Ferreiros N, Birod K, Schreiber Y, Krishnamoorthy G, Willecke K, Geisslinger G, Grösch S, Schiffmann S (2014). Regulation of ceramide synthase 6 in a spontaneous experimental autoimmune encephalomyelitis model is sex dependent. *Biochem Pharmacol* 92: 326-335

Berer K, Boziki M, Krishnamoorthy G (2014). Selective accumulation of pro-inflammatory T cells in the intestine contributes to the resistance to autoimmune demyelinating disease. *PLoS ONE* 9(2): e87876

Nischwitz S, Faber H, Sämann PG, Domingues HS, Krishnamoorthy G, Knop M, Müller-Sarnowski F, Yassouridis A, Weber F (2014). Interferon beta-1a reduces increased interleukin-16 levels in MS patients. *Acta Neurol Scand* 130: 46-52

Berer K, Krishnamoorthy G (2014). Microbial view of central nervous system autoimmunity. *FEBS Letters* 588: 4207–4213, doi: 10.1016/j.febslet.2014.04.007