

Biosketch

Hans Lassmann MD

Professor and Head, Division of Neuroimmunology, Center for Brain Research

Birthdate: July 7, 1949

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Education and experience:

1968-1975 Medical School, University of Vienna, Austria
1975-1983 University of Vienna Medical School; Resident in Neuropathology
1977-1978 Visiting associate; New York State Institute for Basic Research in
Developmental Disabilities, Staten Island, New York;
1983 Habilitation (Neuropathology)
1983-1999 Head of Research Group for Experimental Neuropathology in the Neurological Institute
of the University of Vienna
1990-1995 Head of the Research Unit for Experimental Neuropathology of the Austrian Academy
of Sciences
1993 a.o. University Professor (§31 UOG)
1999 o. University Professor for Neuroimmunology and Head of the Department of
Neuroimmunology at the Center for Brain Research in the University of Vienna
1999-2007 Founding Director of the Center for Brain Research at the University of Vienna
2005 Member of the Austrian Academy of Sciences
2010 Member of the Deutsche Akademie der Naturforscher Leopoldina

Relevant scholarships/awards/patents

1983 Kardinal Innitzer Förderungspreis
2000 Forschungspreis 2000 der Sobek Stiftung für hervorragende Forschungsleistung auf
dem Gebiet der Multiplen Sklerose
2000 Section Head „Demyelinating Diseases“ of the Faculty of 1000 Medicine; Current
Science Group
2000 - 2016 Highly Cited Researcher in ISI Highly Cited Researchers Project
2005 Charcot Award of the Multiple Sclerosis International Federation for Life Long
Achievements in Multiple Sclerosis Research
2005 Kardinal Innitzer Würdigungspreis (Naturwissenschaften) 2005
2010 K.J. ZÜLCH-Preis 2010 der Gertrud Reemtsma-Stiftung / Max Planck Gesellschaft für
"herausragende Leistungen in der neurologischen Grundlagenforschung"
2015 Distinguished Member of the Japanese Society of Neurology

Main Scientific Achievements:

- Publication of > 500 articles in international, peer reviewed journals
- Cumulative citation index of 43978, H-index of 119

- Validation of autoimmune encephalomyelitis as a model disease for multiple sclerosis (rodents, primates and human)
- Mechanisms of T-cell mediated immune surveillance of the brain and in brain inflammation (cooperation with H. Wekerle)
- Role of anti-MOG and anti-Aquaporin 4 autoantibodies in the pathogenesis of inflammatory brain disease in experimental models and humans (cooperation with C. Linington and M. Bradl)
- New definition of the immunopathology of multiple sclerosis (characterization of the inflammatory response; definition of patterns and mechanisms of demyelination, remyelination and neurodegeneration in the brain and spinal cord of multiple sclerosis patients)
- Identification of key mechanisms of neurodegeneration in progressive multiple sclerosis (microglia activation / oxidative injury / mitochondrial injury and its amplification by iron in the human brain) and their relation to age related neurodegeneration / neurodegenerative diseases.
- Analysis of inflammatory mechanisms in relation to neurodegeneration in Alzheimer's disease

Recent Publications:

1. Mahad DH, Trapp BD, Lassmann H (2015) Pathological mechanisms in progressive multiple sclerosis **Lancet Neurology**, 14: 183–93
2. Fischer MT, Wimmer I, Höftberger R, Gerlach S, Haider L, Zrzavy T, Hametner S, Mahad D, Binder CJ, Krumbholz M, Bauer J, Bradl M, Lassmann H. (2013) Disease-specific molecular events in cortical multiple sclerosis lesions **Brain**, 136(Pt 6): 1799-1815
3. Hametner S, Wimmer I, Haider L, Pfeifenbring S, Brück W, Lassmann H. (2013) Iron and Neurodegeneration in the Multiple Sclerosis Brain **Ann Neurol**, 74: 848–861
4. Lassmann H, van Horssen J, Mahad D (2012) Progressive multiple sclerosis: pathology and pathogenesis **Nat Rev Neurol**, 8(11): 647-656
5. Fischer MT, Sharma R, Lim J, Haider L, Frischer J, Drexhage J, Mahad D, Bradl M, van Horssen J, Lassmann H (2012) NADPH Oxidase Expression in Active Multiple Sclerosis Lesions in Relation to Oxidative Tissue Damage and Mitochondrial Injury **Brain**, 135: 886-899
6. Bradl M, Misu T, Takahashi T, Watanabe M, Mader S, Reindl M, Adzemovic M, Bauer J, Berger T, Fujihara K, Itoyama Y, Lassmann H. (2009) Neuromyelitis optica: Pathogenicity of patient immunoglobulin in vivo **Ann Neurol**, 66(5): 630-643
7. Dal Bianco A, Bradl M, Frischer J, Kutzelnigg A, Jellinger K, Lassmann H (2008) Multiple sclerosis and Alzheimer's disease **Ann Neurol**, 63(2): 174-183
8. Kutzelnigg A, Lucchinetti CF, Stadelmann C, Bruck W, Rauschka H, Bergmann M, Schmidbauer M, Parisi JE, Lassmann H (2005) Cortical demyelination and diffuse white matter injury in multiple sclerosis. **Brain**. 128(Pt 11):2705-2712
9. Lucchinetti CF, Mandler RN, McGavern D, Bruck W, Gleich G, Ransohoff RM, Trebst C, Weinshenker B, Wingerchuk D, Parisi JE, Lassmann H (2002) A role for humoral mechanisms in the pathogenesis of Devic's neuromyelitis optica. **Brain** 125:1450-1461
10. Lucchinetti C, Brück W, Parisi J, Scheithauer B, Rodriguez M, Lassmann H (2000) Heterogeneity of multiple sclerosis lesions: Implications for the pathogenesis of demyelination. **Ann Neurol** 47:707-717