

# Curriculum Vitae

## **o.Univ.Prof. Dr. Dr. h.c. Hans Lassmann**

Prof. Dr. Hans Lassmann, geb. 7.7.1949

Ferrogasse 7

A-1180 Wien, Österreich

E-Mail: [hans.lassmann@meduniwien.ac.at](mailto:hans.lassmann@meduniwien.ac.at)

Center for Brain Research, Medical University of Vienna, Austria

- 07.07.1949 Born in Vienna,
- 1968-1975 Medical School, University of Vienna, Austria
- 1975-1983 University Assistant, Neurological Institute, University of Vienna; Training in Clinical and Experimental 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 / since 1992 Medical University of Vienna.
- 1999-2007 Founding Director of the Center for Brain Research at the University of Vienna / Medical University of Vienna,
- 2003-2012 Member of the Senate of the Medical University of Vienna
- 2007-2012 Vice Director of the Center for Brain Research of the Medical University of Vienna
- 2005 Corresponding member of the Austrian Academy of Sciences
- 2010 Member of the Deutsche Akademie der Naturforscher Leopoldina
- 2011 Full Member of the Austrian Academy of Sciences
- 2018 Retirement

## Scientific Honours:

### Personal Awards:

- 1) Kardinal Innitzer Förderungspreis 1983
- 2) The Royal College of Physicians and Surgeons of Canada: Royal College Speaker 1992
- 3) Winner in the Advanced Authored Category: The Medical Writers Group of the Society of Authors; Medical Book Awards 1999 sponsored by The Royal Society of Medicine (UK) für: A.Compston, G. Ebers, H. Lassmann, I. McDonald, B. Matthews & H. Wekerle: McAlpine's Multiple Sclerosis; Third Edition.
- 4) Forschungspreis 2000 der Sobek Stiftung für hervorragende Forschungsleistung auf dem Gebiet der Multiplen Sklerose**
- 5) Section Head „Demyelinating Diseases“ of the Faculty of 1000 Medicine; Current Science Group
- 6) Highly Cited Researcher in ISI Highly Cited Researchers Project**
- 7) Charcot Award of the Multiple Sclerosis International Federation 2005 for Life Long Achievements in Multiple Sclerosis Research**
- 8) Kardinal Innitzer Würdigungspreis (Naturwissenschaften) 2005**
- 9) First Prize in Neurology in the 2006 BMA Medical Book Competition for: A.Compston, G. Ebers, H. Lassmann, I. McDonald, B. Matthews & H. Wekerle: McAlpine's Multiple Sclerosis; Fourth Edition
- 10) Großes Silbernes Ehrenzeichen für Verdienste um die Republik Österreich 2007
- 11) TEVA / Parisi Neuroscience Award (American Association of Neuropathologists) 2009
- 12) K.J. ZÜLCH-Preis 2010 der Gertrud Reemtsma-Stiftung / Max Planck Gesellschaft für "herausragende Leistungen in der neurologischen Grundlagenforschung"**
- 13) Alfred Maier Award 2011 of the British Neuropathological Society
- 14) 2014 Highly Cited Researcher in ISI Highly Cited Researchers Project
- 15) 2015 Distinguished Member of the Japanese Society of Neurology
- 16) 2015 Wagner Jauregg Medaille der Österreichischen Gesellschaft für Biologische Psychiatrie
- 17) 2017 Honorary Member of the French Neurological Society

### Awards for PhD students and post docs under supervision of Hans Lassmann

- 1) Preis der Stiftung Hoechst AG 1985, 1987, 1992, 1999 (S. Schuller Petrovic, B. Schwerer, K. Vass, M. Storch)
- 2) Billroth-Prize - Österreichische Ärztekammer 1994 (Dr. M. Schmied)
- 3) Research Prize - Erste Österreichische Spar-Casse 1994 (Dr. K. Vass)
- 4) Steinberg-Krupp Alzheimer Forschungspreis der Deutschen Hirnliga 2002 (Dr. Christine Stadelmann)
- 5) Helmut-Bauer-Nachwuchspreis für Multiple Sklerose Forschung Göttingen 2004 (Dr. F. Aboul-Enein)

- 6) Helmut-Bauer-Nachwuchspreis 2008 für Multiple Sklerose Forschung Göttingen 2008 (Dr. Assunta Dal Bianco)
- 7) 1st Poster Prize - ECTRIMS 2009 (Dr. Josa Frischer)
- 8) Helmut-Bauer-Nachwuchspreis für Multiple Sklerose Forschung Göttingen 2011 (cand med Lukas Haider)
- 9) Förderpreis der Dr. Maria Schaumayer-Stiftung (Dissertationspreis 2011; Dr. Josa Frischer)

## **Current Positions in National and International Scientific Societies (2018):**

**European Charcot Foundation:** Member of the Executive Board

**Wings for Life Stiftung:** Member of the Scientific Board

**International Federation of Multiple Sclerosis Societies:** Member of the Scientific Programs Committee

**Österreichische Multiple Sklerose Gesellschaft:** Member of the Medical Advisory Board

**Deutsche Multiple Sklerose Gesellschaft:** Member of the Medical Advisory Board

**Federation of the European Academies of Medicine (FEAM)** Delegate of the Austrian Academy of Sciences

## **Editorial Board Membership:**

Brain Pathology, Section Editor

Acta Neuropathologica, American Journal of Pathology, Glia, Neuropathology and Applied Neurobiology, Neuroscience

## **Frequent Reviewer for:**

Lancet, Lancet Neurology, Annals of Neurology, Brain, Experimental Gerontology, Diabetologia, J. of Neuroimmunology, FASEB Journal,

## **Main Research Topics:**

- 1) Molecular mechanisms of brain inflammation and inflammatory tissue damage
- 2) Pathogenesis of inflammatory diseases of the nervous system
- 3) Molecular pathology of multiple sclerosis
- 4) Basic mechanisms of neurodegeneration

## **Main Scientific Achievements:**

- Publication of > 500 articles in international, peer reviewed journals
- Cumulative citation index of 51.824, H-index of 126

- 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