

Matthias Endres

Charité – Universitätsmedizin Berlin
Department of Neurology
Charitéplatz 1
D-10117 Berlin

Phone: +49 (0)30 450560102
Email: matthias.endres(at)charite.de



Curriculum vitae

- Since 2017 Visiting professor, University of Oxford, UK
- Since 2017 Coordinator of Clinical Research, German Center for Neurodegenerative Diseases (DZNE), Berlin
- Since 2010 Spokesperson, Clinical Research Group (KFO) 247 ‘Deep Brain Stimulation: Mechanisms, Physiology and Optimisation of Therapy’, German Research Foundation (DFG)
- Since 2009 Medical director, Center for Neurology, Neurosurgery, and Psychiatry, Charité, Berlin
- Since 2008 Director, Department of Neurology, Charité, Berlin
- Since 2008 Full professor (W3), Department of Neurology, Charité, Berlin
- Since 2008 Director, Center for Stroke Research Berlin (CSB)
- 2005 – 2008 Professor (W2), Interdisciplinary Stroke Research, Lichtenberg Program, Volkswagen Foundation, Charité, Berlin
- 2004 – 2007 Attending physician, Department of Neurology, Stroke Unit, and Intensive Care Unit, Charité, Berlin
- 2003 – 2005 Heisenberg Professorship, German Research Foundation (DFG), Charité, Berlin
- 1998 – 2004 Research group leader, Department of Experimental Neurology, Charité, Berlin
- 1998 – 2003 Resident, Department of Neurology, Charité, Berlin
- 1996 – 1998 Fellow, Neuroscience Center, Massachusetts General Hospital, Harvard Medical School, US
- 1994 – 1996 Resident, Department of Neurology, Universität Lübeck
- 1988 – 1994 Studies in Medicine, Ruhr-Universität Bochum and Universität Hamburg

Research fields

Our group is active in the field of stroke research with the following major areas:

- Preventive vascular mechanisms (endothelial function, physical activity, pharmacology)
- Interaction of heart and brain (*e.g.* stroke-heart syndrome)
- Mechanisms of cell death (cell cycle activation, DNA damage and repair, apoptosis)
- Regeneration and functional outcome (cellular plasticity, neurogenesis)
- Clinical studies (stroke unit, telemedicine)

Activities in the scientific community, honors, awards

- Since 2016 Member, Leopoldina – German National Academy of Sciences
- Since 2011 Principal investigator, German Center for Cardiovascular Diseases (DZHK), Berlin
- Since 2009 Member, board of directors, German Stroke Society
- 2008 Pette Award, German Society of Neurology
- 2002 Paul Martini Award, Paul Martini Foundation
- 2000 Adolf Wallenberg Award, German Society of Neurology
- 1999 Niels Lassen Award, International Society of Cerebral Blood Flow and Metabolism
- 1998 Oskar Lapp Award, German Society of Cardiology
- 1991 – 1994 Scholarship, Studienstiftung des deutschen Volkes, German Academic Scholarship Foundation

Selected publications

- Scheitz JF, Nolte CH, Doehner W, Hachinski V, Endres M. Stroke-heart syndrome: clinical presentation and underlying mechanisms. *Lancet Neurol*. 2018;17:1109-1120.
- Thomalla G, Simonsen CZ, Boutitie F, Andersen G, Berthezene Y, Cheng B, Cheripelli B, Cho TH, Fazekas F, Fiehler J, Ford I, Galinovic I, Gellissen S, Golsari A, Gregori J, Gunther M, Guibernau J, Hausler KG, Hennerici M, Kemmling A, Marstrand J, Modrau B, Neeb L, Perez de la Ossa N, Puig J, Ringleb P, Roy P, Scheel E, Schonewille W, Serena J, Sunaert S, Villringer K, Wouters A, Thijs V, Ebinger M, Endres M, Fiebach JB, Lemmens R, Muir KW, Nighoghossian N, Pedraza S, Gerloff C; WAKE-UP Investigators. MRI-Guided Thrombolysis for Stroke with Unknown Time of Onset. *N Engl J Med* 2018; 379:611-622.
- Kunz A, Ebinger M, Geisler F, Rozanski M, Waldschmidt C, Weber JE, Wendt M, Winter B, Zieschang K, Fiebach JB, Villringer K, Erdur H, Scheitz JF, Tutuncu S, Bollweg K, Grittner U, Kaczmarek S, Endres M, Nolte CH, Audebert HJ. Functional outcomes of pre-hospital thrombolysis in a mobile stroke treatment unit compared with conventional care: an observational registry study. *Lancet Neurol* 2016; 15: 1035-1043
- Ebinger M, Winter B, Wendt M, Weber JE, Waldschmidt C, Rozanski M, Kunz A, Koch P, Kellner PA, Gierhake D, Villringer K, Fiebach JB, Grittner U, Hartmann A, Mackert BM, Endres M, Audebert HJ; STEMO Consortium. Effect of the use of ambulance-based thrombolysis on time to thrombolysis in acute ischemic stroke: a randomized clinical trial. *JAMA* 2014; 311:1622-1631
- Kronenberg G, Balkaya M, Prinz V, Gertz K, Ji S, Kirste I, Heuser I, Kampmann B, Hellmann-Regen J, Gass P, Sohr R, Hellweg R, Waeber C, Juckel G, Hortnagl H, Stumm R, Endres M. Exofocal dopaminergic degeneration as antidepressant target in mouse model of poststroke depression. *Biol Psychiatry* 2012; 72:273-281
- Gertz K, Kronenberg G, Kalin RE, Baldinger T, Werner C, Balkaya M, Eom GD, Hellmann-Regen J, Krober J, Miller KR, Lindauer U, Laufs U, Dirnagl U, Heppner FL, Endres M. Essential role of interleukin-6 in post-stroke angiogenesis. *Brain* 2012; 135:1964-1980
- Hauck L, Harms C, An J, Rohne J, Gertz K, Dietz R, Endres M, von Harsdorf R. Protein kinase CK2 links extracellular growth factor signaling with the control of p27(Kip1) stability in the heart. *Nat Med* 2008; 14:315-324
- Gertz K, Priller J, Kronenberg G, Fink KB, Winter B, Schrock H, Ji S, Milosevic M, Harms C, Bohm M, Dirnagl U, Laufs U, Endres M. Physical activity improves long-term stroke outcome via endothelial nitric oxide synthase-dependent augmentation of neovascularization and cerebral blood flow. *Circ Res* 2006; 99:1132-1140
- Endres M, Biniszkiwicz D, Sobol RW, Harms C, Ahmadi M, Lipski A, Katchanov J, Mergenthaler P, Dirnagl U, Wilson SH, Meisel A, Jaenisch R. Increased postischemic brain injury in mice deficient in uracil-DNA glycosylase. *J Clin Invest* 2004; 113:1711-1721
- Endres M, Laufs U, Huang Z, Nakamura T, Huang P, Moskowitz MA, Liao JK. Stroke protection by 3-hydroxy-3-methylglutaryl (HMG)-CoA reductase inhibitors mediated by endothelial nitric oxide synthase. *Proc Natl Acad Sci USA* 1998; 95:8880-8885