

## Matthias Endres

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Department of Neurology  
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### Curriculum vitae

since 2009	Medical Director, Charite Center 15 for Neurology, Neurosurgery, and Psychiatry
since 2008	Director, Department of Neurology, Charité
since 2008	Professor (W3), Charité
since 2008	Director, Center for Stroke Research Berlin
2005 - 2008	Professor (W2), Interdisciplinary Stroke Research, Lichtenberg Program, Volkswagen Foundation
2003 - 2005	Heisenberg Program, German Research Foundation (DFG)
2004 - 2007	Attending physician, Dept. of Neurology, Stroke Unit and Intensive Care Unit, Charité
1998 - 2003	Neurological resident (Prof. Einhäupl), Department of Neurology Charité, Berlin
1998 - 2004	Group leader, "Cerebral Ischemia", Dept. of Experimental Neurology (Prof. Dirnagl), Charité
1996 - 1998	Fellow, Neuroscience Center (Prof. Moskowitz), Massachusetts General Hospital, Harvard Medical School, Boston
1994 - 1996	Neurological resident (Prof. Kömpf), Medical University of Lübeck
1988 - 1994	Studies in Medicine at medical schools in Bochum, New York, Toronto, 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)
- 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

2009	Board of Directors, German Stroke Society
2008	Pette Award, German Society of Neurology
2005/2013	Board of Directors, Int. Soc Cereb Blood Flow Metabolism (ISCBFM)
2005	Board of Directors, German Society of Telemedicine
2005	Editorial Board, J Cereb Blood Flow Metab (JCBFM)
2003	Editorial Board, Stroke, American Heart Association
2005	Lichtenberg Professor, Volkswagen Foundation
2003	Heisenberg Scholarship, German Research Foundation (DFG)

2002	Paul Martini Award, Paul Martini Foundation
2000	Adolf Wallenberg Award, German Society of Neurology
1999	Nils Lassen Award, Int. Soc. Cereb. Blood Flow Metabolism
1999	Wissenschaftspreis (Science Award), Stiftung Dt. Schlaganfall-Hilfe
1998	Oskar-Lapp Award, German Society Cardiology
1991 - 1994	Studienstiftung des deutschen Volkes (German National Scholarship)

## Selected publications

Mochmann HC, Scheitz JF, Petzold GC, Haeusler KG, Audebert HJ, Laufs U, Schneider C, Landmesser U, Werner N, Endres M, Witzendichler B, Nolte CH, Group TS. Coronary Angiographic Findings in Acute Ischemic Stroke Patients With Elevated Cardiac Troponin: The Troponin Elevation in Acute Ischemic Stroke (TRELAS) Study. *Circulation*. 2016;133(13):1264-71.

von Bornstadt D, Houben T, Seidel JL, Zheng Y, Dilekoz E, Qin T, Sandow N, Kura S, Eikermann-Haerter K, Endres M, Boas DA, Moskowitz MA, Lo EH, Dreier JP, Woitzik J, Sakadzic S, Ayata C. Supply-demand mismatch transients in susceptible peri-infarct hot zones explain the origins of spreading injury depolarizations. *Neuron*. 2015;85(5):1117-31.

Ebinger M, Winter B, Wendt M, Weber JE, Waldschmidt C, Rozanski M, Kunz A, Koch P, Kellner PA, Gierhake D, Villringer K, Fiebich JB, Grittner U, Hartmann A, Mackert BM, Endres M, Audebert HJ, Consortium S. Effect of the use of ambulance-based thrombolysis on time to thrombolysis in acute ischemic stroke: a randomized clinical trial. *JAMA*. 2014;311(16):1622-31.

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(4):273-81.

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(Pt 6):1964-80.

Kronenberg G, Endres M. Neuronal injury: folate to the rescue? *J Clin Invest*. 2010;120(5):1383-6.

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(3):315-24.

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(10):1132-40.

Endres M, Laufs U, Liao JK, Moskowitz MA. Targeting eNOS for stroke protection. *Trends Neurosci*. 2004;27(5):283-9.

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(12):1711-21.

Endres M, Fink K, Zhu J, Stagliano NE, Bondada V, Geddes JW, Azuma T, Mattson MP, Kwiatkowski DJ, Moskowitz MA. Neuroprotective effects of gelsolin during murine stroke. *J Clin Invest*. 1999;103(3):347-54.

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. *PNAS*. 1998;95(15):8880-5.