

## Andreas Meisel

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Department of Neurology  
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### Curriculum vitae

- since 2009 Professor (W2), Neurology, NeuroCure Clinical Research Center
- since 2009 Head, Berlin Stroke Alliance
- since 2008 Head, research group, Cerebrovascular Diseases, NeuroCure Clinical Research Center
- since 2006 Assistant Medical Director, Department of Neurology, Charité
- 2006 – 2009 Assistant Professor, Neurology, Center for Stroke Research Berlin, Charité
- 2007 Board certification in Laboratory Medicine
- 2006 Board certification in Intensive Care Neurology
- 2002 – 2006 Leader, junior research group (Althoff Fellow), Charité
- 2003 Board certification in Neurology
- 2002 Resident, Department of Psychiatry, Charité
- 1996 – 2002 Postdoctoral fellow (Advisor: Prof. U. Dirnagl), Experimental Neurology, Charité
- 1995 – 2003 Resident (Advisor: Prof. K.M. Einhäupl), Department of Neurology, Charité
- 1990 – 1994 Dissertation, Biocenter, University of Basel (Advisor: Prof. T. A. Bickle), and Institute of Medical Virology (Advisor: Prof. D. H. Krüger), Charité
- 1987 – 1994 Studies in Medicine, Charité and Molecular Biology, Biocenter University Basel

### Research fields

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

- Endogenous mechanisms of hypoxic and metabolic stress response
- Epigenetic mechanisms of brain repair and plasticity
- Mechanisms and functional relevance of CNS injury-induced immune modulation
- Clinical trials in stroke and neuromuscular disorders

### Medical Care

Inpatient and outpatient care for neurological disorders with special focus on stroke, neurological intensive care, and neuromuscular disorders.

### Activities in the scientific community, honors, awards

- since 2011 Member, Editorial Board, Journal of Cerebral Blood Flow & Metabolism
- since 2009 Member, Editorial Board, PLoS One
- 2004 – 2006 Elected member, Faculty Council, Charité
- 2002 – 2006 Althoff Fellow, Charité
- 1996 Glaxo-Wellcome-Award for Clinical Virology
- 1995 Sandoz-Award for therapeutic research
- 1994 Award of the German Society for Microbiology
- 1992 Robert Koch Award, Charité
- 1991 EMBO-Fellow, European Molecular Biology Organization

## Selected publications

Dirnagl, U, Becker, K and Meisel, A. Preconditioning and tolerance against cerebral ischaemia: from experimental strategies to clinical use. *Lancet Neurol.* 2009; 8, 398-412.

Harms, H, Prass, K, Meisel, C, Klehmet, J, Rogge, W, Drenckhahn, C, Gohler, J, Bereswill, S, Gobel, U, Wernecke, KD, Wolf, T, Arnold, G, Halle, E, Volk, HD, Dirnagl, U and Meisel, A. Preventive antibacterial therapy in acute ischemic stroke: a randomized controlled trial. *PLoS One.* 2008; 3, e2158.

Prass, K, Braun, JS, Dirnagl, U, Meisel, C and Meisel, A. Stroke propagates bacterial aspiration to pneumonia in a model of cerebral ischemia. *Stroke.* 2006; 37, 2607-12.

Meisel, C, Schwab, JM, Prass, K, Meisel, A and Dirnagl, U. Central nervous system injury-induced immune deficiency syndrome. *Nat Rev Neurosci.* 2005; 6, 775-86.

Meisel, C, Prass, K, Braun, J, Victorov, I, Wolf, T, Megow, D, Halle, E, Volk, HD, Dirnagl, U and Meisel, A, Preventive antibacterial treatment improves the general medical and neurological outcome in a mouse model of stroke. *Stroke.* 2004; 35, 2-6.

Prass, K, Meisel, C, Hoflich, C, Braun, J, Halle, E, Wolf, T, Ruscher, K, Victorov, IV, Priller, J, Dirnagl, U, Volk, HD and Meisel, A. Stroke-induced immunodeficiency promotes spontaneous bacterial infections and is mediated by sympathetic activation reversal by poststroke T helper cell type 1-like immunostimulation. *J Exp Med.* 2003; 198, 725-36.

Ruscher, K, Freyer, D, Karsch, M, Isaev, N, Megow, D, Sawitzki, B, Priller, J, Dirnagl, U and Meisel, A. Erythropoietin is a paracrine mediator of ischemic tolerance in the brain: evidence from an in vitro model. *J Neurosci.* 2002; 22, 10291-301.

Endres, M, Meisel, A, Biniszkiwicz, D, Namura, S, Prass, K, Ruscher, K, Lipski, A, Jaenisch, R, Moskowitz, MA and Dirnagl, U. DNA methyltransferase contributes to delayed ischemic brain injury. *J Neurosci.* 2000; 20, 3175-81.

Meisel, A, Mackeldanz, P, Bickle, TA, Kruger, DH and Schroeder, C. Type III restriction endonucleases translocate DNA in a reaction driven by recognition site-specific ATP hydrolysis. *EMBO J.* 1995; 14, 2958-66.

Meisel, A, Bickle, TA, Kruger, DH and Schroeder, C. Type III restriction enzymes need two inversely oriented recognition sites for DNA cleavage. *Nature.* 1992; 355, 467-9.