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(\* 1960)

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### **Curriculum vitae**

- since 1/2008 Chief Executive Director, [Center for Stroke Research](#) Berlin (Integrated Center for Research and Treatment (IFB), funded by German Ministry of Science)
- since 11/2007 Member, Board of Directors, [Cluster of Excellence 'NEUROCURE'](#) (funded by Deutsche Forschungsgemeinschaft)
- 1/2006-2/2008 Member, Steering Committee ['Berlin Center for Regenerative Therapies'](#) (funded by German Ministry of Science)
- 1/2005-12/2007 Coordinator ('Sprecher'), DFG- Collaborative Research Center ('Sonderforschungsbereich') SFB 507 'Role of non-neuronal cells in neurological disorders'
- since 2001 Program director, [International Master-MD/PhD Program 'Medical Neurosciences'](#)
- since 10/2001 Co-Chairman, [Department of Neurology, Charité](#) (together with M.Endres)
- since 1999 Deputy Director, [Neuroscience Center](#), Charité
- since 5/1999 Professor and Head, Hermann and Lilly Schilling Endowed Chair for Clinical Neuroscience, Head of the [Department of Experimental Neurology](#), Charité, Humboldt University
- 4/1995-4/1999 Heisenberg-Scholar of the Deutsche Forschungsgemeinschaft (DFG)
- 3/1993-5/1999 Director, Division of Experimental Neurology, Charité, Humboldt University
- 1988-1989 Research fellow and instructor at the Dept.of Neuroscience, Cornell University Medical Center, N.Y.C, Chairman: Fred Plum, MD
- 1987/1988 Research assistant, Dept. of Neurology, Ludwig Maximilians University

### **Research fields**

- Regulation of cerebral blood flow and metabolism
- Cerebral ischemia and endogenous neuroprotection
- Acute brain inflammation, brain - immune interaction
- Brain imaging

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

- Coordinator, [Affording Recovery in Stroke \(ARISE\)](#), 14 partner EU-Large Scale Cooperation Framework Program 7

- Coordinator, European Stroke Network (together with S.Meairs) ([www.europeanstrokenetwork.eu](http://www.europeanstrokenetwork.eu))
- General Secretary, [German Neuroscience Society](#) (2007-)
- Editorships/Editorial Boards: Chief Editor J. Cereb. Blood Flow Metab. (since 7/2009)); Deputy Chief Editor J. Cereb. Blood Flow Metab. (1996-2009); Section Editor Neuroreport (1998-2005); Associate Editor Brain Pathol. (2000-) ; Ed. Board member Glia (2000-); International Journal of Stroke (2005-); Cerebrovasc. Dis. (2001-); Acta Neuropathol. (2001-)
- Industry advisory panels: Mitsubishi-Tanabe (Japan); Quickool AB (Sweden); Carrot-Remedy (USA), Bausch and Lomb (USA)
- Member, Commission for Helmholtz and Leibniz Stipends, [German Academic Exchange Service](#) (DAAD)
- Member, Commission of the [Senate of the German Research Council](#) (DFG, Senats- und Bewilligungsausschuss) on Graduate Programs
- Deputy chairman, Commission for Research Affairs, Humboldt University Medical School (1999-2006)
- 7/2008 Offer, Directorship of the [Howard Florey Neuroscience](#) Institute in Melbourne, Australia (declined)
- Gerhardt Hess Prize 1993 (German Research Council, DFG)
- Heisenberg Fellowship 1995 (German Research Council, DFG)

### Scientific Advisory Boards

- Advisory Panel, Polish-German Cooperation in Neuroscience (BMBF-KPN, 2002-)
- International Scientific Advisory Board, [Neuroscience Center, University of Helsinki](#), Finland (2002-2008)
- Member, Wissenschaftliches Kuratoriums der Stiftung [Deutsche Schlaganfall-Hilfe](#) (2000-2001)
- Member, Publications Committee [International Society of Cerebral Blood Flow and Metabolism](#) (2003-)
- Advisor, Academy of Finland, Research Council for Health (2005-)
- Member, International Scientific Advisory Board, [Wings for Life Foundation](#) (2007-)
- Member, International Scientific Advisory Board [Interdisziplinäres Zentrum für Klinische Forschung \(IZKF\)](#) Med. Fakultät Universität Münster (2008-)
- Member, Kuratorium of the [Munich Center for Neurosciences](#) – Brain and Mind Ludwig-Maximilians-University (MCN LMU) (2009-)
- Member, Scientific Advisory Board, [Institute for Stroke and Dementia Research](#) (ISD), Medizinischen Fakultät der Ludwig-Maximilians-Universität München (2010-)
- Member, International Scientific Advisory Board, [Quickcool AB](#) (Lund, Sweden) (2010-)
- Member, International Scientific Advisory Board, Integrated Research and Treatment [Center for Sepsis Control and Care \(CSCC\)](#), Universitätsklinikum Jena (2010-)
- International Advisory Board, [Society for Experimental Stroke](#) (SFES) (2010-)
- Member, Scientific Advisory Board, Herman and Lilly Schilling Foundation (2010-)

## Organisation of scientific meetings:

- Chairman, Gordon Research Conference 'Brain Energy Metabolism and Blood Flow (2004)
- Chairman, Program Committee 'Brain05' (Amsterdam, 2005), Member, Program Committee 'Brain07' (Osaka, 2007), Program Committee 'Brain13' (Shanghai, 2013)
- Organizer, Ernst Schering Foundation Workshop Neuroinflammation in Stroke Berlin 2003
- Local Organizing Committee (LOC), EuroGLIA 2003
- LOC, 1. Congress of the 'Neurowissenschaftliche Gesellschaft', Berlin 1996
- Organizer, 'Optical Imaging of Brain Function and Metabolism II, Berlin 1995;
- LOC, 'Pathophysiological Mechanisms of Bacterial Meningitis', Garmisch 1993
- LOC 'Optical Imaging of Brain Function and Metabolism', Garmisch 1992
- Symposium Organizer: Winter Conference on Brain Research (WCBR) Snowbird Utah 1994; WCBR Snowmass Colorado 1996; WCBR Snowmass Colorado 1997; European Winter Conference on Brain Research (EWCBR) 2001 Les Arcs, 2003 Les Arc, 2006 Villars)
- Scientific Advisory Board Member: Human Brain Mapping 97, Copenhagen; European Neuroscience Meeting Berlin 1998; 'Brain' (1993, 1995, 1997, 1999, 2001, 2003); 'Pharmacology of Cerebral Ischemia' (1998, 2000, 2002, 2004, 2007); Cerebral Ischemia and Stroke' (2004, 2006, 2008)

## Citation Report (ISI Web of Knowledge):

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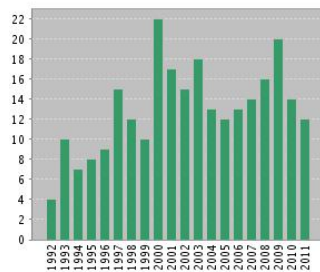
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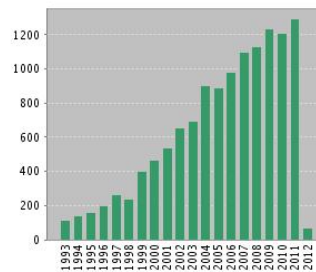
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Original publications in international, peer-reviewed journals ([out of 271 PubMed listed](#), selected from those cited more than 190 times, total citations > 12700 times, citations as of 2/2012)

1. Villringer A, Planck J, Hock C, Schleinkofer L, Dirnagl U (1993) Near infrared spectroscopy (NIRS): a new tool to study hemodynamic changes during activation of brain function in human adults. *Neurosci Lett* 154: 101-104 Times Cited: 360
2. Dirnagl U, Kaplan B, Jacewicz M, Pulsinelli W (1989) Continuous measurement of cerebral cortical blood flow by laser-Doppler flowmetry in a rat stroke model. *J Cereb Blood Flow Metab* 9: 589-596 Times cited: 314
3. Priller J, Flugel A, Wehner T, Boentert M, Haas CA, Prinz M, Fernandez-Klett F, Prass K, Bechmann I, de Boer BA, Frotscher M, Kreutzberg GW, Persons DA, Dirnagl U (2001) Targeting gene-modified hematopoietic cells to the central nervous system: use of green fluorescent protein uncovers microglial engraftment. *Nat Med* 7: 1356-1361 Times Cited: 279

4. Malonek D, Dirnagl U, Lindauer U, Yamada K, Kanno I, Grinvald A (1997) Vascular imprints of neuronal activity: relationships between the dynamics of cortical blood flow, oxygenation, and volume changes following sensory stimulation. *Proc Natl Acad Sci U S A* 94: 14826-14831 Times Cited: 278
5. Strehlow K, Werner N, Berweiler J, Link A, Dirnagl U, Priller J, Laufs K, Ghaeni L, Milosevic M, Böhm M, Nickenig G (2003) Estrogen increases bone marrow-derived endothelial progenitor cell production and diminishes neointima formation. *Circulation*. 107:3059-3065 Times Cited: 246
6. Werner N, Priller J, Laufs U, Endres M, Böhm M, Dirnagl U, Nickenig G (2002) Bone Marrow-Derived Progenitor Cells Modulate Vascular Reendothelialization and Neointimal Formation: Effect of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Inhibition. *Arterioscler Thromb Vasc Biol*. 22:1567-1572. Times Cited: 243
7. Ruscher K, Freyer D, Karsch M, Isaev N, Megow D, Sawitzki B, Priller J, Dirnagl U, Meisel A. (2002) Erythropoietin: a paracrine mediator of ischemic tolerance in the brain - Evidence from an in vitro model of cerebral ischemia. *J. Neuroscience* 22:10291-301 Times Cited: 241
8. Kleinschmidt A, Obrig H, Requardt M, Merboldt KD, Dirnagl U, Villringer A, Frahm J (1996) Simultaneous recording of cerebral blood oxygenation changes during human brain activation by magnetic resonance imaging and near-infrared spectroscopy. *J Cereb Blood Flow Metab* 16: 817-826 Times Cited: 207
9. Lindauer U, Megow D, Matsuda H, Dirnagl U (1999) Nitric oxide: a modulator, but not a mediator, of neurovascular coupling in rat somatosensory cortex. *Am J Physiol* 277: H799-H811 Times Cited: 194
10. Prass K, Meisel D, Hoflich C, Braun J, Halle E, Wolf T, Ruscher K, Victorov IV, Priller J, Dirnagl U, Volk HD, Meisel A (2003) Stroke-induced immunodeficiency promotes spontaneous bacterial infections and is mediated by sympathetic activation - reversal by post-stroke Th1-like immunostimulation. *J.Exp.Med.* 198:735-736 Times Cited: 191

### **Third-party-funding (selection, awarded since 2003)**

- Endowed chair and Department, Hermann and Lilly Schilling Foundation (1999-2009)
- BMBF-National Genome Research Network 'Genomic mechanisms of functional recovery in stroke' (2004-2009, together with J.Priller);
- BMBF Priority programm 'Cell based regeneration after stroke' (since 2005, together with J.Priller);
- DFG TR 742/1-1 'Complement inhibition in stroke' (2005-2009, together with G.Trendelenburg);
- DFG Transregio SFB TR43, Project B6 'Role of inflammation for long-term post-stroke outcome' (from 2008, together with M.Endres)
- Coordinator, European Union Marie Curie Action 'Cooperation in Research and Training for European Excellence in the Neurosciences' (2005-2010, 8 partners from 6 European countries);
- Principal Investigator Berlin Center for Regenerative Therapies (from 2006)
- Coordinator, European Union Framework Program 7 large scale cooperation 'ARISE: Affording recovery in stroke' (14 partners from 10 European countries, from 2008)
- BMBF Center for Treatment and Research (IFB) 'Center for Stroke Research Berlin' (PI 2008-2010)
- Principal Investigator Center of Excellence 'NEUROCURE' (from 2008)
- Technologiestiftung Berlin, 'Molecular Imaging of Stroke' (from 2008)
- Center for Stroke Research Berlin (Integrated Center for Research and Treatment (IFB), German Ministry of Science)

## Patents

- 'Preventive antiinfective therapy in stroke' (European Patent Office 03714776.6-2123-EP0302246). Patent owner: Charité, Humboldt University Berlin, Patent inventors: Andreas Meisel, Christian Meisel, Konstantin Prass, Elke Halle, Hans-Dieter Volk, Ulrich Dirnagl
- Erythropoietin Splice Variants (European Patent office EP05010473). Patent owner: Charité, Humboldt University Berlin. Patent inventors: Andreas Meisel, Josef Priller, Konstantin Prass, Ulrich Dirnagl, Christel Bonnas

## Books

- Dirnagl U (Ed.) (2010) Rodent models of stroke; Springer Protocols Neuromethods Vol.47; Springer New York Dordrecht Heidelberg London).
- Dirnagl U, Elger B. (eds) (2004) Neuroinflammation in stroke. Ernst Schering Research Foundation Workshop Series Vol 47; Springer New York
- Dirnagl, U, Wiegand F. (2000) Disease Modification durch Neuroprotektion. Thieme-Perspektiven Neurologie Band 1. Thieme Verlag Stuttgart
- Villringer A, Dirnagl U, (eds) (1997): Optical imaging of brain function and metabolism II: Physiological basis and comparison to other functional neuroimaging methods. Plenum Press New York
- Dirnagl U, Villringer A, Einhüpl KM (eds) (1993): Optical imaging of brain function and metabolism. Plenum Press New York