

Arno Villringer

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Curriculum vitae

since 2007 Managing Director, MPI for Human Cognitive and Brain Sciences, Leipzig
since 2007 Director, Department for Cognitive Neurology, and Professor of Cognitive Neurology (since 2008), Universitätsklinikum, Leipzig
since 2007 Principal investigator, Mind and Brain Institute, Humboldt-Universität Berlin and Charité - Universitätsmedizin Berlin
since 2006 Speaker, "Berlin School of Mind and Brain"
2002 – 2007 Coordinator, Berlin NeuroImaging Center (BNIC)
2004 – 2007 Head, Clinic of Neurology (Benjamin Franklin Hospital), Charité
2001 – 2008 Board of Directors, German Stroke Society
since 1996 Professor (W3) of Neurology, Charité, Humboldt-Universität Berlin
since 1999 Coordinator of Competence Network Stroke
1999 – 2004 Chief physician, Clinic of Neurology (Virchow Hospital), Charité
1996 – 2007 Deputy Director, Department of Neurology, Charité (Director: Prof. K. M. Einhäupl)
1993 – 1999 Consultant, Department Neurology, Charité (Director: Prof. K. M. Einhäupl)
1992 Board Certification in Neurology
1986 – 1993 Resident, Neurology and Psychiatry (1989), LMU München
1985 DFG Stipend, Massachusetts General Hospital, Harvard Medical School, Boston
1984 Final State Exam Medicine, Medical Thesis, Albert-Ludwigs-Universität, Freiburg
1977 – 1984 Medical School, Albert-Ludwigs-Universität, Freiburg

Research fields

- Stroke, brain plasticity after focal lesions
- Maladaptive plasticity in the pathogenesis of vascular risk factors
- Brain imaging
- Cognitive neurology

Activities in the scientific community, honors, awards

2008 Honorary Professorship for Neurology, Humboldt-Universität zu Berlin
2005 Pater Leander Fischer Prize of German Laser Society
2002 Winner in national competition for five Neuroimaging Centers in Germany
1999 Winner in national competition for nine national competence networks (as coordinator of nation-wide competence network stroke)
1996 Endowed Professorship ("C3", DFG) as head of clinical research group (New methods for noninvasive functional brain assessment)
1993 Gerhard Hess Prize, German Research Foundation (DFG)
1986 Stipend, German Research Foundation (DFG)

Selected publications

Becker, R., Reinacher, M., Freyer, F., Villringer, A., and Ritter, P. How ongoing neuronal oscillations account for variability of evoked fMRI responses. *J Neurosci.* 2011; (in press).

Taubert, M, Draganski, B, Anwander, A, Muller, K, Horstmann, A, Villringer, A and Ragert, P. Dynamic properties of human brain structure: learning-related changes in cortical areas and associated fiber connections. *J Neurosci.* 2010; 30, 11670-7.

Horstmann, A, Frisch, S, Jentzsch, RT, Muller, K, Villringer, A and Schroeter, ML. Resuscitating the heart but losing the brain: brain atrophy in the aftermath of cardiac arrest. *Neurology.* 2010; 74, 306-12.

Margulies, DS, Vincent, JL, Kelly, C, Lohmann, G, Uddin, LQ, Biswal, BB, Villringer, A, Castellanos, FX, Milham, MP and Petrides, M. Precuneus shares intrinsic functional architecture in humans and monkeys. *Proc Natl Acad Sci U S A.* 2009; 106, 20069-74.

Preuschhof, C, Heekeren, HR, Taskin, B, Schubert, T and Villringer, A. Neural correlates of vibrotactile working memory in the human brain. *J Neurosci.* 2006; 26, 13231-9.

Koch, SP, Steinbrink, J, Villringer, A and Obrig, H. Synchronization between background activity and visually evoked potential is not mirrored by focal hyperoxygenation: implications for the interpretation of vascular brain imaging. *J Neurosci.* 2006; 26, 4940-8.

Wartenburger, I, Heekeren, HR, Abutalebi, J, Cappa, SF, Villringer, A and Perani, D. Early setting of grammatical processing in the bilingual brain. *Neuron.* 2003; 37, 159-70.

Blankenburg, F, Taskin, B, Ruben, J, Moosmann, M, Ritter, P, Curio, G and Villringer, A. Imperceptible stimuli and sensory processing impediment. *Science.* 2003; 299, 1864.

Villringer, A and Chance, B. Non-invasive optical spectroscopy and imaging of human brain function. *Trends Neurosci.* 1997; 20, 435-42.

Villringer, A, Them, A, Lindauer, U, Einhaupl, K and Dirnagl, U. Capillary perfusion of the rat brain cortex. An in vivo confocal microscopy study. *Circ Res.* 1994; 75, 55-62.