

Dr. rer. nat. Wolfgang Weber-Fahr

Date of birth: 04 June, 1968
Gender: male
Address: Central Institute of Mental Health
RG Translational Imaging
Department of Neuroimaging
J5
68159, Mannheim
Germany
Phone: +49-(0)621-1703 2961
Email: w.weber-fahr@zi-mannheim.de
Current position: Head of Research Group Translational Imaging



CURRICULUM VITAE

University education

1989 - 1992 BSc in Physics, University of Aachen/Germany. Undergraduate studies in physics leading to the BSc-equivalent in Physics ("Vordiplom")
1992 - 1997 MSc in Physics, University of Heidelberg/Germany ("Diplom")

Scientific degrees

2001 PhD in Physics, University of Heidelberg/Germany. Thesis: Advanced techniques for spectroscopic imaging in vivo through heteronuclear polarization transfer and image-guided quantification of spectra. Research was conducted at the German Cancer Research Centre in Heidelberg (DKFZ) as well as at the Central Institute for Mental Health (ZI) in Mannheim (Dr.rer.nat.)

Professional experience

since 2008 Head of Research Group "Translational Imaging", Central Institute of Mental Health Mannheim
2003 - 2007 Research Associate at NeuroImageNord with Prof. Christian Büchel, Department of Systems Neuroscience, University Medical Center Hamburg-Eppendorf
2002 - 2003 Postdoctoral fellow at NMR-Research, Central Institute for Mental Health Mannheim
1997 - 2001 Research Assistant, German Cancer Research Centre (DKFZ) and Central Institute for Mental Health Mannheim

Awards and honors

AUG 2002 Young Investigator's Award Finalist. 19th Annual Scientific Meeting, European Society for Magnetic Resonance in Medicine and Biology (ESMRMB), Cannes, France

Memberships, panels and coordinating functions:

SINCE JUN 1998 International Society for Magnetic Resonance in Medicine

5 most important publications

- Schwarz AJ, Gass N, Sartorius A, Zheng L, Spedding M, Schenker E, Risterucci C, Meyer-Lindenberg A, **Weber-Fahr W**. The low-frequency blood oxygenation level-dependent functional connectivity signature of the hippocampal-prefrontal network in the rat brain. Neuroscience 2013;228: 243-58.
- Gass N, Schwarz AJ, Sartorius A, Cleppien D, Zheng L, Schenker E, Risterucci C, Meyer-Lindenberg A, **Weber-Fahr W**. Haloperidol modulates midbrain-prefrontal functional connectivity in the rat brain. Eur Neuropsychopharmacol 2013;23: 1310-9.
- Biedermann S, Fuss J, Zheng L, Sartorius A, Falfan-Melgoza C, Demirakca T, Gass P, Ende G, **Weber-Fahr W**. In vivo voxel based morphometry: detection of increased hippocampal volume and decreased glutamate levels in exercising mice. Neuroimage 2012;61(4): 1206-12.
- Weber-Fahr W**, Busch MG, Finsterbusch J. Short-echo-time magnetic resonance spectroscopy of single voxel with arbitrary shape in the living human brain using segmented two-dimensional selective radiofrequency excitations based on a blipped-planar trajectory. Magn Reson Imaging 2009;27(5): 664-71.
- Weber-Fahr W**, Ende G, Braus DF, Bachert P, Soher BJ, Henn FA, Buchel C. A fully automated method for tissue segmentation and CSF-correction of proton MRSI metabolites corroborates abnormal hippocampal NAA in schizophrenia. Neuroimage 2002;16(1): 49-60.