

Andreas Heinz

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Curriculum vitae

- since 2002 Professor of Psychiatry, Director and Chair, Department of Psychiatry and Psychotherapy (CCM), Charité
- 2000 – 2002 Professor (W3) and Associate Director, Addiction Research, University of Heidelberg
- 1998 – 1999 Research supervisor, Department of Neurology, Ruhr-University Bochum
- 1998 Venia legendi (Habilitation) in Psychiatry, Freie Universität Berlin
- 1995 – 1997 Special volunteer, Clinical Brain Disorders Branch, National Institutes of Mental Health, NIH, Bethesda
- 1994 MA in Philosophy, Freie Universität Berlin
- 1992 – 1995 Research on dopamine and serotonin dysfunction, Department of Psychiatry, Freie Universität Berlin
- 1988 – 1991 Research on dopamine dysfunction, Department of Neurology, University of Bochum
- 1988 – 1997 Philosophical and anthropological studies, Freie Universität Berlin, and Howard University, Washington DC
- 1988 Dissertation (M.D.), magna cum laude, University of Bochum
- 1988 State examination and approbation in Medicine
- 1984 – 1987 Medical studies, Freie Universität Berlin
- 1980 – 1984 Medical studies, University of Bochum

Research fields

Our group is active in the field of mono-aminergic dysfunction in psychiatric disorders, combining genetic research, and multimodal brain imaging techniques, with the following major areas:

- Gene-gene interaction effects on functional brain activation elicited by affective cues
- Dopaminergic dysfunction and the brain reward system in alcoholism and schizophrenia
- Stress effects on serotonergic dysfunction and the behavior inhibition system in drug addiction, major depression, and obsessive-compulsive disorders
- Concepts of reward, punishment, and motivation in philosophy, neuroscience, and transcultural psychiatry

Activities in the scientific community, honors, awards

- 2010 Chair (elected), Leibniz Institutes for Neurobiology, Magdeburg
- 2007 President, Association of German Chairs of Psychiatric University Departments
- 2007 President, AEP Section for Drug Addiction
- 2000 Wilhelm Feuerlein Award

Selected publications

Heinz, AJ, Beck, A, Meyer-Lindenberg, A, Sterzer, P and Heinz, A. Cognitive and neurobiological mechanisms of alcohol-related aggression. *Nat Rev Neurosci*. 2011.

Park, SQ, Kahnt, T, Beck, A, Cohen, MX, Dolan, RJ, Wrase, J and Heinz, A, Prefrontal cortex fails to learn from reward prediction errors in alcohol dependence. *J Neurosci*. 2010; 30, 7749-53.

Schlagenhauf, F, Sterzer, P, Schmack, K, Ballmaier, M, Rapp, M, Wrase, J, Juckel, G, Gallinat, J and Heinz, A. Reward feedback alterations in unmedicated schizophrenia patients: relevance for delusions. *Biol Psychiatry*. 2009; 65, 1032-9.

Reimold, M, Batra, A, Knobel, A, Smolka, MN, Zimmer, A, Mann, K, Solbach, C, Reischl, G, Schwarzler, F, Grunder, G, Machulla, HJ, Bares, R and Heinz, A. Anxiety is associated with reduced central serotonin transporter availability in unmedicated patients with unipolar major depression: a [¹¹C]DASB PET study. *Mol Psychiatry*. 2008; 13, 606-13, 557.

Kienast, T, Hariri, AR, Schlagenhaut, F, Wrase, J, Sterzer, P, Buchholz, HG, Smolka, MN, Grunder, G, Cumming, P, Kumakura, Y, Bartenstein, P, Dolan, RJ and Heinz, A. Dopamine in amygdala gates limbic processing of aversive stimuli in humans. *Nat Neurosci*. 2008; 11, 1381-2.

Wrase, J, Schlagenhaut, F, Kienast, T, Wustenberg, T, Berman, F, Kahnt, T, Beck, A, Strohle, A, Juckel, G, Knutson, B and Heinz, A. Dysfunction of reward processing correlates with alcohol craving in detoxified alcoholics. *Neuroimage*. 2007; 35, 787-94.

Smolka, MN, Buhler, M, Schumann, G, Klein, S, Hu, XZ, Moayer, M, Zimmer, A, Wrase, J, Flor, H, Mann, K, Braus, DF, Goldman, D and Heinz, A. Gene-gene effects on central processing of aversive stimuli. *Mol Psychiatry*. 2007; 12, 307-17.

Smolka, MN, Schumann, G, Wrase, J, Grusser, SM, Flor, H, Mann, K, Braus, DF, Goldman, D, Buchel, C and Heinz, A. Catechol-O-methyltransferase val158met genotype affects processing of emotional stimuli in the amygdala and prefrontal cortex. *J Neurosci*. 2005; 25, 836-42.

Heinz, A, Reimold, M, Wrase, J, Hermann, D, Croissant, B, Mundle, G, Dohmen, BM, Braus, DF, Schumann, G, Machulla, HJ, Bares, R and Mann, K. Correlation of stable elevations in striatal mu-opioid receptor availability in detoxified alcoholic patients with alcohol craving: a positron emission tomography study using carbon 11-labeled carfentanil. *Arch Gen Psychiatry*. 2005; 62, 57-64.

Heinz, A, Braus, DF, Smolka, MN, Wrase, J, Puls, I, Hermann, D, Klein, S, Grusser, SM, Flor, H, Schumann, G, Mann, K and Buchel, C. Amygdala-prefrontal coupling depends on a genetic variation of the serotonin transporter. *Nat Neurosci*. 2005; 8, 20-1.