

## Andreas Heinz

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### Curriculum vitae

Since 2015	Member, board of directors, NeuroCure – Cluster of Excellence, Berlin
2013	Dissertation (PhD) in Philosophy, Universität Potsdam
Since 2002	Professor of Psychiatry, director and chair, Department of Psychiatry and Psychotherapy, Charité, Berlin
2001	Associated Professor of Psychiatry, Department of Psychiatry, Yale University, New Haven, US
2000 – 2002	Full professor (W3) and associate director, Addiction Research, Universität Heidelberg
1998	Venia legendi (Habilitation) in Psychiatry, Freie Universität Berlin
1997 – 1999	Senior clinical supervisor, Department of Neurology, Ruhr-Universität Bochum
1995 – 1997	Special volunteer, Clinical Brain Disorders Branch, National Institutes of Mental Health (NIH), US
1994	MA in Philosophy, Freie Universität Berlin
1992 – 1995	Scientific assistant, Department of Psychiatry, Freie Universität Berlin
1988 – 1997	Studies in Philosophy and Anthropology, Freie Universität Berlin and Howard University, Washington, US
1988 – 1991	Scientific assistant, Department of Neurology, Ruhr-Universität Bochum
1988	Dissertation (MD), Ruhr-Universität Bochum
1988	State examination and approbation in Medicine
1980 – 1987	Medical studies, Ruhr-Universität Bochum and Freie Universität Berlin

### Research fields

Our group is active in the field of monoaminergic 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 and motivation in philosophy, neuroscience, and transcultural psychiatry

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

Since 2015	Member, Leopoldina – German National Academy of Sciences
2015	Max Rubner Award, Charité, Berlin
2014, 2015	Nomination as Karl-Jaspers Guest Professor at the University of Oldenburg
Since 2013	Member, Akademie der Wissenschaften und der Literatur Mainz
2011	Leibniz Chair, Leibniz Institute for Neurobiology, Magdeburg
2011, 2014	Hans-Heimann-Preis, German Society for Psychiatry, Psychotherapy, and Neurology (DGPPN)
2010 – 2014	President, German Society of Biological Psychiatry (DGBP)
2007 – 2010	Speaker, Association of German Chairs of Psychiatric University Departments
2007 – 2009	Speaker, Section for Drug Addiction, Association of European Psychiatrists

## Selected publications

- Sebold M, Nebe S, Garbusow M, Guggenmos M, Schad DJ, Beck A, Kuitunen-Paul S, Sommer C, Frank R, Neu P, Zimmermann US, Rapp MA, Smolka MN, Huys QJM, Schlagenhauf F, Heinz A. When Habits Are Dangerous: Alcohol Expectancies and Habitual Decision Making Predict Relapse in Alcohol Dependence. *Biol Psychiatry* 2017; 82:847-856
- Stephan KE, Schlagenhauf F, Huys QJ, Raman S, Aponte EA, Brodersen KH, Rigoux L, Moran RJ, Daunizeau J, Dolan RJ, Friston KJ, Heinz A. Computational neuroimaging strategies for single patient predictions. *Neuroimage* 2017; 145:180-199
- Heinz A, Deserno L, Zimmermann US, Smolka MN, Beck A, Schlagenhauf F. Targeted intervention: Computational approaches to elucidate and predict relapse in alcoholism. *Neuroimage* 2017; 151:33-44
- Schlagenhauf F, Rapp MA, Huys QJ, Beck A, Wustenberg T, Deserno L, Buchholz HG, Kalbitzer J, Buchert R, Bauer M, Kienast T, Cumming P, Plotkin M, Kumakura Y, Grace AA, Dolan RJ, Heinz A. Ventral striatal prediction error signaling is associated with dopamine synthesis capacity and fluid intelligence. *Hum Brain Mapp* 2013; 34:1490-1499
- Beck A, Wustenberg T, Genauck A, Wrase J, Schlagenhauf F, Smolka MN, Mann K, Heinz A. Effect of brain structure, brain function, and brain connectivity on relapse in alcohol-dependent patients. *Arch Gen Psychiatry* 2012; 69:842-852
- Heinz AJ, Beck A, Meyer-Lindenberg A, Sterzer P, Heinz A. Cognitive and neurobiological mechanisms of alcohol-related aggression. *Nat Rev Neurosci* 2011; 12:400-413
- Park SQ, Kahnt T, Beck A, Cohen MX, Dolan RJ, Wrase J, Heinz A. Prefrontal cortex fails to learn from reward prediction errors in alcohol dependence. *J Neurosci* 2010; 30:7749-7753
- Kienast T, Hariri AR, Schlagenhauf F, Wrase J, Sterzer P, Buchholz HG, Smolka MN, Gruner G, Cumming P, Kumakura Y, Bartenstein P, Dolan RJ, Heinz A. Dopamine in amygdala gates limbic processing of aversive stimuli in humans. *Nat Neurosci* 2008; 11:1381-1382
- Heinz A, Reimold M, Wrase J, Hermann D, Croissant B, Mundle G, Dohmen BM, Braus DF, Schumann G, Machulla HJ, Bares R, 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, Buchel C. Amygdala-prefrontal coupling depends on a genetic variation of the serotonin transporter. *Nat Neurosci* 2005; 8:20-21