

Prof. Dr. HEIKE TOST

Date of birth: 20 November, 1970
Gender: Female
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Position: Professor for Psychiatry & Psychotherapy (W3)



CURRICULUM VITAE

University education

2000 - 2006 Studies in Human Medicine, University of Heidelberg, Germany
1991 - 1999 Studies in Psychology, University of Landau, Germany

Scientific degrees

2010 M.D. doctorate in Psychiatry, Mentor: Prof. Dr. Andreas Meyer-Lindenberg, Heidelberg University, Germany
2004 Ph.D. doctorate in Psychology, Mentor: Prof. Dr. Monika Pritzel, Landau University, Germany

Professional experience

Since 2018 W3 (Full) Professor for Psychiatry & Psychotherapy, Medical Faculty of Mannheim, Heidelberg University, Germany
Since 2015 Head, Psychoepidemiological Center (PEZ), Central Institute of Mental Health, Mannheim, Germany
2011 - 2019 Group leader of an independent research unit established via an award from the German Federal Ministry for Education and Research, Mannheim
Since 2010 Group leader, Systems Neuroscience in Psychiatry (SNiP), Central Institute of Mental Health, Mannheim, Germany
2006 - 2010 Postdoctoral fellow with Prof. Dr. Daniel R. Weinberger, Genes, Cognition and Psychosis Program, National Institute of Mental Health, USA

Academic functions and awards:

Awards and honours:

2017 DGPPN Hans-Heimann-Preis
2011 BMBF-funded Independent Research Group in Neuroscience award
2006 National Institutes of Health (NIH) – German Research Foundation (DFG) Research Career Transition Award
2001 Scholarship for doctoral students, Evangelisches Studienwerk, Villigst

Editorial boards:

Since 2018 Associate Editor of the Journal of Medical Psychology
Since 2017 Editorial Board of Chronic Stress
Since 2016 Associate Editor of Network Neuroscience

A) Publications:

- Cao H, Harneit A, Walter H, Erk S, Braun U, Moessnang C, Geiger LS, Zang Z, Mohnke S, Heinz A, Romanczuk-Seiferth N, Muhleisen T, Mattheisen M, Witt SH, Cichon S, Nothen MM, Rietschel M, Meyer-Lindenberg A, Tost H. The 5-HTTLPR polymorphism affects network-based functional connectivity in the visual-limbic system in healthy adults. **Neuropsychopharmacology** 2018;43(2):406-414.
- Schneider M, Walter H, Moessnang C, Schafer A, Erk S, Mohnke S, Romund L, Garbusow M, Dixon L, Heinz A, Romanczuk-Seiferth N, Meyer-Lindenberg A, Tost H. Altered DLPFC-hippocampus connectivity during working memory: Independent replication and disorder specificity of a putative genetic risk phenotype for Schizophrenia. **Schizophrenia Bulletin** 2017;43(5):1114-1122.
- Cao H, Bertolino A, Walter H, Schneider M, Schafer A, Taurisano P, Blasi G, Haddad L, Grimm O, Otto K, Dixon L, Erk S, Mohnke S, Heinz A, Romanczuk-Seiferth N, Muhleisen TW, Mattheisen M, Witt SH, Cichon S, Nothen M, Rietschel M, Tost H*, Meyer-Lindenberg A*. Altered functional subnetwork during emotional face processing: A potential intermediate phenotype for Schizophrenia. **JAMA Psychiatry** 2016;73(6):598-605.
- Braun U, Schafer A, Bassett DS, Rausch F, Schweiger JI, Bilek E, Erk S, Romanczuk-Seiferth N, Grimm O, Geiger LS, Haddad L, Otto K, Mohnke S, Heinz A, Zink M, Walter H, Schwarz E, Meyer-Lindenberg A, Tost H. Dynamic brain network reconfiguration as a potential schizophrenia genetic risk mechanism modulated by NMDA receptor function. **Proc Natl Acad Sci U S A** 2016;113(44):12568-12573.
- Tost H, Champagne FA, Meyer-Lindenberg A. Environmental influence in the brain, human welfare and mental health. **Nature Neuroscience** 2015;18(10):1421-1431.
- Tost H, Callicott JH, Rasetti R, Vakkalanka R, Mattay VS, Weinberger DR, Law AJ. Effects of neuregulin 3 genotype on human prefrontal cortex physiology. **The Journal of Neuroscience** 2014;34(3):1051-1056.
- Bilek E, Schafer A, Ochs E, Esslinger C, Zangl M, Plichta MM, Braun U, Kirsch P, Schulze TG, Rietschel M, Meyer-Lindenberg A, Tost H. Application of high-frequency repetitive transcranial magnetic stimulation to the DLPFC alters human prefrontal-hippocampal functional interaction. **The Journal of Neuroscience** 2013;33(16):7050-7056.
- Tost H, Meyer-Lindenberg A. Puzzling over schizophrenia: schizophrenia, social environment and the brain. **Nature Medicine** 2012;18(2):211-213.
- Tost H, Kolachana B, Hakimi S, Lemaitre H, Verchinski BA, Mattay VS, Weinberger DR, Meyer-Lindenberg A. A common allele in the oxytocin receptor gene (OXTR) impacts prosocial temperament and human hypothalamic-limbic structure and function. **Proc Natl Acad Sci U S A** 2010;107(31):13936-13941.
- Tost H, Braus DF, Hakimi S, Ruf M, Vollmert C, Hohn F, Meyer-Lindenberg A. Acute D2 receptor blockade induces rapid, reversible remodeling in human cortical-striatal circuits. **Nature Neuroscience** 2010;13(8):920-922.

* Shared senior authorship

B) Patents: -

Scientific collaborations beyond the planned Collaborative Research Centre

Danielle Bassett, Pennsylvania University, Philadelphia, USA

Alessandro Bertolino, Bari University, Italy

Barbara Franke, Radboud University, Nijmegen, Netherlands

Daniel R. Weinberger, Lieber Institute for Brain Development, Baltimore, USA

Ulrich Ebner-Priemer, Karlsruhe Institute for Technology, Germany

Henrik Walter, Charité - Universitätsmedizin Berlin, Germany

Andreas Heinz, Charité - Universitätsmedizin Berlin, Germany