

## **PD DR. RER. NAT. FRAUKE NEES**

**Current address:** Department of Cognitive and Clinical Neuroscience, Central Institute of Mental Health, J 5, 68159 Mannheim, Tel.: +49-621-1703-6306, Fax: +49-621-1703-6305, [frauke.nees@zi-mannheim.de](mailto:frauke.nees@zi-mannheim.de)

### **□ CURRENT POSITION**

Heisenberg Fellow, Assistant Professor and Work Group Leader, Department of Cognitive and Clinical Neuroscience, Medical Faculty Mannheim, Heidelberg University

### **□ ACADEMIC POSITIONS**

#### ***Central Institute of Mental Health, Medical Faculty Mannheim, Heidelberg University***

Department of Cognitive and Clinical Neuroscience (Prof. Dr. Dr. h.c. Herta Flor)

*Since 2018* Heisenberg Fellow, funded by the German Research Foundation

*2016-2018* Permanent Deputy of the Scientific Director

*Since 2013* Head of the Research Group “Psychobiology of emotional learning”

*2012-2013* Deputy Professorship

*Since 2009* Position in Professorship management and organisation

*Since 2008* PostDoc and Assistant Professor

Department and Chair of Child and Adolescent Psychiatry and Psychotherapy (Prof. Dr. Dr. Tobias Banaschewski)

*2016-2017* Assistant Professor

#### ***Medical University of Vienna***

*2015-2016* Assistant Professor and Clinical Psychologist, Department of Child and Adolescent Psychiatry and Psychotherapy (Prof. Dr. Luise Poustka)

#### ***University of Trier***

*2005-2008* PhD scholarship (Nikolaus-Koch-Foundation) and fellowship (International Research Training Group)

### **□ EDUCATION**

#### ***Medical Faculty Mannheim, Heidelberg University***

*2014* Habilitation, Venia legendi in Neuropsychology, Clinical Psychology and Medical Psychology

#### ***University of Trier***

*2009* PhD in Psychobiology, Institute of Psychobiology

#### ***University of Landau***

*2004* Diploma Psychology (Study of Psychology, 1999-2004)

### **□ PROJECTS AS PRINCIPAL INVESTIGATOR**

#### ***Collaborative Research Centers, funded by the German Research Foundation***

*Since 2015* Collaborative Research Center 1158 “From nociception to chronic pain: Structure-function attributes of neural circuits and their reorganisation”: B03 - The role of learning, stress and underlying brain circuits involving prefrontal-limbic interactions in the development of chronic back pain (Nees, Flor)

*2012-2015* Collaborative Research Center 636 “Learning, memory and brain plasticity: Implications for psychopathology”: C07 - Implicit and explicit learning and memory in acute and chronic hippocampal impairment: Focus on stress and extinction (Szabo, Nees)

#### ***Multicenter projects, funded by the Federal Ministry of Education and Research***

*2017-2021* “Improving Mental Health and Reducing Addiction in Childhood and Adolescence through Mindfulness: Mechanisms, Prevention and Treatment (IMAC-Mind)”, Funding Initiative

„Gesund - ein Leben lang“, Project “Identification of early bio-psycho-social risks and resilience factors and etiological pathways to adolescent addictive behavior” (Banaschewski, Nees)

2017-2021 “Improving Mental Health and Reducing Addiction in Childhood and Adolescence through Mindfulness: Mechanisms, Prevention and Treatment (IMAC-Mind)”, Funding Initiative „Gesund - ein Leben lang“, Project “Translation of neurobehavioral risk profiles into the development of screening and prevention tools in a mechanism-based approach” (Flor, Nees)

***Single projects, funded by the German Research Foundation***

Since 2015 “Approach and avoidance in chronic musculoskeletal pain: the role of pavlovian-instrumental transfer” (Nees)

***Scientific networks, funded by the German Research Foundation***

Since 2016 “Scientific network for a better understanding of the neuroplasticity and associated functions following hemispherectomy” (Nees, Zentner)

□ **PROJECT COORDINATIONS**

***Multicenter projects, funded by the European Commission and the Federal Ministry of Education and Research***

Since 2015 “AERIAL: Addiction: Early Recognition and Intervention Across the Lifespan”

Since 2008 “IMAGEN: Reinforcement-related behaviour in normal brain function and psychopathology”, Work packages on behavioural tasks and neuroimaging, 6th Framework Program "Life Science"

***Collaborative Research Centers, funded by the German Research Foundation***

2009-2015 Collaborative Research Centre 636 “Learning, memory and brain plasticity: Implications for psychopathology”: C01 – Learning and brain plasticity in posttraumatic stress disorder

***Single projects, funded by Foundations***

Since 2016 FRAILBRAIN: “Reversing maladaptive reorganization in frail brains: sensorimotor training, brain plasticity and the role of BDNF”, funded by the Hector II Foundation, Weinheim

***Project collaborations***

2008-2011 “Effects of the exposition with static magnetic fields on subjective cognitive performance“ (in cooperation with the German Cancer Centre Heidelberg), funded by the Federal Office for Radiation Protection

***Exchange projects***

2014-2015 “Emotional processing of fear and decision-making in psychopathy: an fMRI study”, funded by the German Academic Exchange Service

2013-2015 “Effects of hippocampal dysfunction on contextual memory in post-traumatic stress disorder”, funded by the Colombian's Administrative Department of Science, Technology and Innovation COLCIENCIAS)

2013-2015 “Pharmacological interventions in fear conditioning”, funded by the Humboldt Foundation

□ **FELLOWSHIPS AND AWARDS**

***Scholar- and fellowships***

Since 2018 Heisenberg Fellowship, German Research Foundation

2007-2008 Fellowship, GRK 1389/1 “The International Research Training Group: Psychoneuroendocrinology of Stress - From Molecules and Genes to Affect and Cognition”, German Research Foundation

2005-2008 Scholarship of the Nikolaus-Koch-Foundation

***Travel grants***

2012 German Academic Exchange Service: participation at the 14<sup>th</sup> World Congress on Pain 2012, Mailand, Italy (965 €)

2011 Excellence Initiative, Graduate Academy, Heidelberg University: participation at the Human Brain Mapping Meeting 2011 of the Organization for Human Brain Mapping, Quebec, Canada (1.500 €)

### **Memberships**

Since 2015 Membership of the Hartmut Hoffmann-Berling International Graduate School of Molecular and Cellular Biology (HBIGS)

Since 2015 Membership of the Research Network “(European) International study of Fear and Extinction Learning and the Return Of Fear (EIFEL-ROF)

### **□ (CO-)SUPERVISION OF GRADUATE / POSTDOCTORAL STUDENTS AND FELLOWS**

**Institutes/Universities: Central Institute of Mental Health, Medical Faculty Mannheim, Heidelberg University, University of Mannheim, Medical University of Vienna**

Since 2009 15 PhD students, 1 Diploma student, 4 Bachelor students, 1 Medical doctoral student, 4 PostDocs / Fellows

### **□ TEACHING QUALIFICATION AND ACTIVITIES**

#### **University didactic**

2012 University Didactic Certificate Baden-Württemberg

**Institutes/Universities: University of Trier, Central Institute of Mental Health, Medical Faculty Mannheim, Heidelberg University, University of Mannheim**

2013-2018 Deputy Coordinator of the teaching module Medical Psychology and Sociology within the “Mannheimer Reformierten Curriculum Medizin” (MaReCuM), Medical Faculty Mannheim, Heidelberg University, Mannheim

Since 2008 Teaching courses: Medical Psychology (MaReCuM); Training workshop “Neuropsychological testing”; graduate school “Experimental design and data analysis”; Bachelor Psychology (e.g., Biological Psychology: Neurocognition; Stress and its biopsychological consequences) - Central Institute of Mental Health, Medical Faculty Mannheim, Heidelberg University, University of Mannheim

2005-2007 Teaching course: Psychophysiological research colloquium, University of Trier

### **□ ORGANISATION OF SCIENTIFIC MEETINGS AND SYMPOSIA**

#### **Symposia**

2011 Symposium „Learning processes and their neural correlates: basic mechanisms, modulating factors and implications“, Meeting of the German Society for Psychophysiology and its Application

#### **Meetings**

2010 1<sup>st</sup> MID Results Meeting of the EU project IMAGEN („Reinforcement-related behaviour in normal brain function and psychopathology“)

Since 2016 “Scientific network for a better understanding of the neuroplasticity and associated functions following hemispherectomy”

### **□ INVITED MEETINGS AND TALKS**

#### **Meetings, congresses and training workshops**

Since 2008 More than 30 talks on topics of reinforcement-related behaviour in normal brain function and psychopathology, neuropsychology, high static magnetic fields, pain, memory, learning and brain plasticity and psychobiology of stress

### **□ MEMBERSHIPS IN SCIENTIFIC SOCIETIES**

German Society for Psychophysiology and its Application; Society for Psychophysiological Research; International Association for the Study of Pain; Organization for Human Brain Mapping; German Society for Behavioural Medicine and Modification

□ **AD HOC REVIEWER**

*Foundations:* Research Foundation Flanders (FWO), NWO Veni/Vidi, ERC Starting Grants, European Foundation for Alcohol Research (ERAB);

*Journals:* Biological Psychiatry, Human Brain Mapping, Neuroimage, PLoS One, Pain, Psychophysiology, Psychosomatic Medicine, Journal of Psychology, International Journal of Psychology, Journal of Pain, Journal of Affective Disorders, Journal of Cognitive Neuroscience, Journal of Psychiatry Research, Journal of Psychiatry and Neuroscience, International Journal of Psychophysiology, Journal of the Royal Society Interface, Journal of Traumatic Stress, Neurobiology of Learning and Memory, Neuropsychopharmacology, Neuroscience, Psychological Medicine, Translational Psychiatry, Journal of Psychiatric Research, Journal of Affective Disorders, Addiction Biology, International Journal of Behavioral Medicine, Developmental Neuropsychology, EBioMedicine, Developmental Science, Brain Research, Brain Imaging and Behavior, European Journal of Neuroscience, European Journal of Pain, European Journal of Neuropsychopharmacology, Neuroscience and Neuroeconomics, Psychology Research and Behavior Management, Acta Psychologica; *Review Editor:* Editorial Board Frontiers in Behavioural Neuroscience