Molecular risk mechanisms for major psychoses II
Chair: Holger Garn

10:50 Impact of the psychiatric susceptibility gene CACNA1C on mitochondrial and neuronal resilience
Carsten Culmsee, Marburg

11:10 Effects of the psychiatric risk gene CACNA1C on neuroinflammatory responses in microglia
Susanne Michels, Marburg

11:30 Role of the immune system in affective disorders and depression-associated behavior
Judith Alferink, Münster

11:50 General Discussion

12:00 Lunch

Genetics and Treatment
Chair: Markus Nöthen

13:00 Selected short presentations

13:30 Genomic analyses of psychiatric disorders
Andreas Forstner, Marburg

13:50 Poster session IV and coffee

14:50 Divergence in genotypes and phenotypes across the affective and psychotic spectrum – from big data to disease mechanisms
Ole Andreassen, Oslo

15:30 Methods of dimensionality reduction in genome-wide human polymorphism data
Bernd Müller-Mylskok, München

15:50 NIRS-based neurofeedback to treat auditory hallucinations
Andreas Fallgatter, Tübingen

16:30 General Discussion

16:40 Summary and Farewell

Organisation: Tilo Kircher, Annette Tittmar
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Scientific committee: Carsten Culmsee, Marburg; Udo Dannowski, Münster; Tilo Kircher, Marburg; Markus Nöthen, Bonn; Marcella Rietschel, Mannheim; Gerhard Schratt, Zürich; Markus Wöhr, Stanford

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Registration: www.for2107.de

Venues (red buildings in map):
- Wednesday, March 25th
  Satellite Meeting: Gutenbergstraße 18, Room 00019
  Öffentlicher Vortrag: Alte Aula, Lahntor 3
- Thursday and Friday, March 26th-27th
  Universitätsbibliothek: Deutschhausstraße 9
  Landgrafenschloss: Schloss 1

International Conference of the DFG Research Unit 2107
NEUROBIOLOGY OF THE MAJOR PSYCHOSES
A Translational Perspective on Gene-Environment Interactions in Depression, Bipolar Disorder and Schizophrenia

25th – 27th March 2020
Marburg, Germany
Dear colleagues

Large epidemiological and molecular genetic studies have elucidated the risk factors for the major psychoses (major depression, schizophrenia, bipolar disorder). The pathophysiological pathways from these risks onto molecular, cellular and systemic levels remain largely elusive. Since 2014, the German Research Council (DFG) has funded our large, German, nationwide translational consortium, the DFG Research Unit 2107, with the aim to unravel these pathways in animal models and humans. The conference “Neurobiology of the Major Psychoses” aims at a transdiagnostic, dimensional view.

In our three day conference, we will discuss the current state of the field to accelerate the translation of research breakthroughs into novel classification and personalized medicine.

Tilo Kircher and the PIs of the FOR2107

Wednesday, March 25th 2020

Women in Science, Satellite Meeting
Gutenbergstraße 18, Room 00019
10:00 – 15:00
Chairs: Theresa Kisko, Özge Sungur (Post-doctoral researchers)

Öffentlicher Vortrag, Alte Aula, Lahntor 3
19:00 Prof. Dr. Andreas Meyer-Lindenberg, Mannheim
Ursachen und Therapien bei psychiatrischen Erkrankungen (auf Deutsch)

Thursday, March 26th 2020

08:00 Registration
08:30 Welcome - Prof. Dr. Katharina Krause, Prof. Dr. Helmut Schäfer, Prof. Dr. Markus Nöthen
Prof. Dr. Frank Bremmer
08:50 Introduction - Tilo Kircher, Marburg

Imaging Genes (G) and Environment (E) in humans I
Chair: Marcella Rietschel
09:10 Building blocks for a psychiatric nosology based on common biological mechanisms
Gunter Schumann, London
09:50 Limbic scars – how maltreatment experiences during childhood shape brain structure and function
Udo Dannlowski, Münster
10:10 Quality management of MRI data in multicentre, longitudinal studies
Andreas Jansen, Marburg
10:30 General Discussion

10:40 Poster session I and coffee

11:10 Novel MR morphometry methods: from gyrification to machine-learning based analysis
Igor Nenadić, Marburg
11:30 Deconstructing genetic and environmental risk for a dimensional psychosis risk phenotype
Tina Meller, Marburg
11:50 General Discussion

12:00 Lunch

Imaging G and E in humans II
Chair: Petra Pfefferle
13:00 Epigenetic signatures of childhood traumatization
Hans Grabe, Greifswald
13:40 The major psychoses: symptoms, risk factors and the brain
Tilo Kircher, Marburg

14:00 Machine learning for biotype identification in psychiatry - The utility-based cluster optimization and prediction framework
Tim Hahn, Münster
14:20 General Discussion
14:30 Selected short presentations
15:00 Poster session II and coffee

GxE in animal models
Chair: Rainer Schwarting
16:30 Using animal models to assess novel targets implicated in psychiatric disorders
David A. Slattery, Frankfurt
17:10 Effects of Cacna1c haploinsufficiency on brain and behavior in rats
Markus Wöhr, Stanford
17:30 Sex-dependent effects of Cacna1c haploinsufficiency on social behavior in rats
Theresa Kisko, Marburg
17:50 General Discussion
18:00 Closing remarks
19:30 Dinner and get together at Marburg Castle

Friday, March 27th 2020

Molecular risk mechanisms for major psychoses I
Chair: Stephanie Witt
08:30 Dissecting the polygenic basis of psychiatric disorders using stem cell models and functional genomics
Michael Ziller, München
09:10 Contribution of microRNAs to the development of affective disorders
Helena Martins, Zürich
09:30 Gene environment interaction in affective disorders
Elisabeth Binder, München
10:10 General Discussion

10:20 Poster session III and coffee