



Retreat DFG-Research Unit 2107

November 8-9, 2016

Rauischholzhausen Castle

First results and grant application

Tuesday, November 8th, 2016

- 12:00 Arrival, Room Check in
- 12:30 Lunch
- 13:30 Introduction Tilo Kircher
- 14:00 Chair: Rainer Schwarting
Udo Dannlowski (WP1)
MACS: Gene x Environment Interaction in Mental Disorders
- 14:30 Markus Wöhr (WP2)
Biopsychological mechanisms underlying gene x environment effects in the Cacna1c genetic rat model of affective disorders: Calcium signalling, microRNAs, and immune activation
- 15:00 Chair: Marcella Rietschel
Gerhard Schratt (WP3)
Molecular mechanisms underlying a global reduction of microRNA expression in rat models of affective disorders and human depressive patients
- 15:30 Judith Alferink (WP4)
Inflammatory mechanisms in the context of G&E interactions in affective disorders
- 16:00 Coffee break
- 16:30 Chair: Markus Nöthen
Andreas Forstner (WP5)
Integrative analyses of genetic, epigenetic, transcriptomic, and environmental vulnerability factors of affective disorders
- 17:00 Tim Hahn (WP6)
Cross-Disorder Biotype Identification and Prediction
- 17:30 Ina Pfefferle (CP1)
Biomaterial Bank (BMB)
- 17:45 Poster session
- 18:45 Dinner
- 19:30 Get Together

Wednesday, November 9th, 2016

- 07:30 Breakfast
- 08:30 Poster session
- 09:15 Parallel Sessions
- PI meeting: new funding period
 - Postgraduate meetings
- 10:30 Coffee break
- 11:00 Parallel Sessions
- PI meeting new funding period
 - Postgraduate meetings
- 12:30 Lunch
- 13:30 Parallel Sessions
- PI meeting new funding period
 - Postgraduate meetings
- 15:00 Summary Postgraduate Meetings
- 15:15 Summery PI Meetings: 10 minutes per workpackage
- 16:15 Coffee and cake



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Posters: Preliminary Results

Tuesday, November 8, 18:00-18:45

Wednesday, November 9, 8:30-9:15 h

WP1

Differential abnormal pattern of anterior cingulate gyrus activation in unipolar and bipolar depression

Bürger C, Redlich R, Grotegerd D, Schneider I, Zaremba D, Meinert S, Alferink J, Bölte J, Kugel H, Arolt V, Dannlowski U

Association between global functioning, clinical and cognitive outcome with WM microstructure in major psychiatric disorders

Dietsche B, Engelen J, Bröhl H, Meier F, Sauder T, Heinen J, Dannlowski U, Krug A, Kircher A

Belohnungsprozesse bei unipolarer Depression und bipolarer Störung: eine fMRT-Studie

Dohm K, Redlich R, Grotegerd D, Opel N, Zwisserlood P, Kugel H, Dannlowski U

The influence of individual risk and protective factors on brain structure in psychotic and affective disorders - a transdiagnostical study

Engelen J, Meier F, Bröhl H, Heinen J, Sauder T, Dietsche B, Dannlowski U, Krug A, Kircher T

Is state depression positively linked to better cognition in schizophrenia?

Meier F, Engelen J, Bröhl H, Heinen J, Dietsche B, Dannlowski U, Kircher T

Differential effect of childhood maltreatment on white matter morphometry in unipolar and bipolar depression

Meinert S, Repple J, Bürger C, Zaremba D, Grotegerd D, Förster K, Dannlowski U

A Voxel-Based Diffusion Tensor Imaging Study in unipolar and bipolar depression

Repple J, Meinert S, Grotegerd D, Kugel H, Redlich R, Dohm K, Zaremba D, Opel N, Buerger C, Förster K, Arolt V, Heindel W, Deppe M, Dannlowski U

Clinical Predictors of Hippocampal Atrophy in Patients with Major Depressive Disorder

Zaremba D, Bürger C, Dohm K, Enneking V, Förster K, Grotegerd D, Meinert S, Redlich R, Kugel H, Dannlowski U

WP2

The Cacna1c genetic rat model for affective disorders: Behavioral phenotypes and inflammatory markers

Braun MD, Kisko TM, Kayumova R, Raithel C, Redecker TM, Hohmeyer C, Rietschel C, Witt S, Schwarting RKW, Garn H, Wöhr M

Cytokine profiles and epigenetic signatures as consequences of gene-environment-interactions in a Cacna1c-deficient rat model of affective disorders

Picard FSR, Potaczek D, Harb H, Hiß K, Bernhardt S, Wöhr M, Garn H

Sex differences in juvenile social play behavior and 50-kHz ultrasonic vocalizations of Cacna1c haploinsufficient rats modeling affective disorders.

Kisko TM, Braun MD, Pützer A, Hohmeyer C, Rietschel M, Witt S, Schwarting RKW, Wöhr M

WP3

MicroRNAs regulate the neuroplasticity of Major Depressive Disorder

Martins H, Khudayberdiev S, Braun M, Kisko T, Özge Sungur A, Seffer D, Wöhr M, Schwarting R, Schratt G

WP4

Knockdown of the psychiatric susceptibility gene Cacna1c mediates protection of mitochondria against glutamate-induced stress in neuronal cells" vorstellen.

Michels S, Ganjam GK, Martins H, Braun MD, Kisko TM, Schwarting RKW, Wöhr M, Schratt GM, Culmsee C

WP5

Integrative analyses of genetic, epigenetic and microRNA data

Sivalingam S, Forstner AJ, Hecker J, Hofmann A, Maaser A, Reinbold CS, Strohmaier J, Herms S, Hoffmann P, Kircher T, Dannlowski U, Krug A, Cichon S, Witt SH, Rietschel M, Nöthen MM

Next-Generation Bisulfite Sequencing of CACNA1C and OXTR with Illumina MiSeq

Schendel D, Dukal H, Lang M, Mossner M, Jann JC, Frank J, Treutlein J, Forstner A, Nöthen MM, Witt SH, Rietschel M

WP6

Altered Fronto-Amygdala Circuits Underlying Affective Disorders: Effects of Diagnosis and Medication

Keßler R, Schuster V, Bopp MHA, Zimmermann KM, Jansen A

Quality Assurance for functional Magnetic Resonance Imaging for MACS

Vogelbacher C, Bopp MHA, Sommer J, Jansen A