

International Symposium • 19.-21.09.2018

Neurodevelopment and Vulnerability of the Central Nervous System

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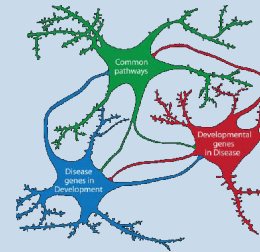
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GRK 2162

Speaker: Prof. Chichung Lie

Conference Venue

New Lecture Hall of Medical Faculty
Ulmenweg 18
91054 Erlangen

Organizing Committee

Ruth Beckervordersandforth, Chichung Lie, Tania Rizo, Tobias Schwarz, Sören Turan, Michael Wegner, Jürgen Winkler, Marie-Theres Wittmann

Organization

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WEDNESDAY, 19.09.2018

- 4.30 -
5.45 p.m. **Registration**
- 5.45 pm **Welcome**
Jürgen Schüttler (Dean, Medical Faculty, FAU Erlangen)
Friedrich Paulsen (Vice President, FAU Erlangen)
Chichung Lie (Speaker GRK 2162)
- 6.00 p.m. **KEYNOTE**
Fred H. Gage
(Salk Institute for Biological Studies, La Jolla, USA)
Early life experience and structural variation of neural genomes

THURSDAY, 20.09.2018

- 8.15 -
9.00 a.m. Registration
- SESSION 1** **Chair: Marie-Theres Wittmann / De-Hyung Lee**
- 9.00 a.m. **Victor Borrell** (CSIC, Alicante, Spain)
Cellular and genetic mechanisms of cerebral cortex expansion
- 9.30 a.m. **Denis Jabaudon** (Université de Genève, Switzerland)
Dynamic control of neuronal diversity in the developing neocortex
- 10.00 a.m. **Christina Kyrousi** (MPI of Psychiatry, Munich, Germany)
The extracellular matrix protein LGALS3BP regulates basal radial glial cells generation and human cortical development
- 10.15 a.m. **Jana Heppt** (FAU Erlangen, Germany)
Wnt-signaling in maturation of adult-generated hippocampal neurons
- 10.30 a.m. Coffee Break

THURSDAY, 20.09.2018

- SESSION 2** **Chair: Sören Turan**
- 11.00 a.m. **Gaia Novarino** (IST Vienna, Austria)
Genetic and epigenetic defects in neuro-developmental disorders
- 11.30 a.m. **Tobias Böckers** (University of Ulm, Germany)
Model systems to analyze autism spectrum disorders (ASDs)
- 12.00 p.m. **Hans van Bokhoven** (Radboud UMC, Nijmegen, Netherlands)
Converging molecular and cellular pathways across neurodevelopmental disorders
- 12.30 p.m. Poster Session 1 and Boxed Lunch
- SESSION 3** **Chair: Martin Regensburger**
- 2.30 p.m. **Francesca Peri** (UZH, Zurich, Switzerland)
The brain under surveillance: the role neuronal-microglial interactions in the development and repair of the CNS
- 3.00 p.m. **Ileana Hanganu-Opatz** (UKE, Hamburg, Germany)
Cognitive ontogeny in health and mental illness: a story of right communication
- 3.30 p.m. **Melanie Meyer-Luehmann** (University of Freiburg, Germany)
Seed-induced A β deposition impairs adult neurogenesis in mouse models of Alzheimer's disease
- 4.00 p.m. Coffee Break
- SESSION 4** **Chair: Melanie Küspert / Simone Reiprich**
- 4.30 p.m. **Alana Hoffmann** (University Hospital Erlangen, Germany)
Oligodendroglia α -synucleinopathy triggers early and regional-specific myeloid immune response in multiple system atrophy
- 4.45 p.m. **Jeffrey S. Davies** (Swansea University, Wales, UK)
Circulating unacylated-ghrelin impairs hippocampal neurogenesis and memory in mice and is altered in human Parkinson's disease dementia

THURSDAY, 20.09.2018

- 5.00 p.m. **Klaus-Armin Nave** (MPI for Exp. Medicine, Göttingen, Germany)
Powering Axons: Novel Functions of Oligodendrocytes in Energy Metabolism
- 5.30 p.m. **Leda Dimou** (University of Ulm, Germany)
NG2-glia in the adult brain: our new friends?

FRIDAY, 21.09.2018

- 8.00 Coffee
- SESSION 5** **Chair: Ruth Beckervordersandforth / Christiane Mühle**
- 8.30 a.m. **André Fischer** (DZNE, Göttingen, Germany)
Epigenetic processes in neurodevelopmental and adult brain diseases
- 9.00 a.m. **Sebastian Jessberger** (UZH, Zurich, Switzerland)
Elucidating the molecular and cellular dynamics of neurogenesis in the adult hippocampus
- 9.30 a.m. **Hongjun Song** (University of Pennsylvania, USA)
Epitranscriptomic regulation in the nervous system
- 10.00 a.m. **Leila Haj Abdullah Alieh** (CRTD, Dresden, Germany)
Alternative splicing regulates neurogenic commitment in the mammalian brain
- 10.15 a.m. **Baptiste Jaeger** (UZH, Zurich, Switzerland)
A novel environment-evoked transcriptional signature predicts reactivity in single dentate granule neurons
- 10.30 a.m. **Poster Session 2 and Coffee Break**
- SESSION 6** **Chair: Tania Rizo**
- 12.30 p.m. **Verdon Taylor** (University of Basel, Switzerland)
Activation of depressed stem cells in the adult septum
- 1.00 p.m. **Guo-li Ming** (University of Pennsylvania, USA)
Brain-Region-Specific Organoids for Modeling Neurodevelopment and Disease
- 1.30 p.m. **Wrap up, End of meeting**