

Adult Neurogenesis 2018

May 2-4, 2018
Dresden, Germany

Conference Program

Wednesday, May 2

- 15:00 – 16:00 Registration
- 16:00 – 16:15 Welcome: Gerd Kempermann
- 16:15 – 16:20 Abcam
- 16:20 – 16:55 H. Georg Kuhn (University of Gothenburg, Sweden)
- 16:55 – 17:30 Jason Snyder (University of British Columbia, Canada)
- 17:30 – 19:30 Poster session I and drinks reception

Thursday, May 3

- 09:00 – 09:35 Federico Calegari (CRTD – Technische Universität Dresden, Germany)
Enhancing neurogenesis through-out life
- 09:35 – 09:55 David Petrik (Helmholtz Center Munich, Germany)
Epithelial sodium channel regulates adult neural stem cell proliferation in a flow-dependent manner
- 09:55 – 10:15 Vijay Adusumilli (DZNE Dresden, Germany)
Endogenous Redox levels delineate functional heterogeneity of hippocampal stem cells
- Break
- 10:45 – 11:20 Michael Brand (CRTD - Technische Universität Dresden, Germany)
Learning from the fish: regeneration of the adult zebrafish brain
- 11:20 – 11:40 Filippo Calzolari (Johannes Gutenberg University Mainz, Germany)
Subtle changes in clonal dynamics underlie the age-related decline in neurogenesis
- 11:40 – 12:15 Laure Bally-Cuif (Institut Pasteur, France)
Single cell and population effects ensuring neural stem cell maintenance in the adult zebrafish telencephalon
- Lunch
- 13:15 – 13:50 Benedikt Berninger (King's College London, UK)
Unfolding of a developmental program during lineage conversion of human brain pericytes into neurons by synergistic Ascl1 and Sox2

- 13:50 – 14:10 Carlos Fitzsimons (Swammerdam Institute for Life Sciences, The Netherlands)
Glucocorticoid oscillations are crucial for the development of morphological features and dendritic spine pruning in adult hippocampal newborn granule neurons in a mouse model of accelerated senescence
- 14:10 – 14:45 Henriette van Praag (NIH, US)
New neurons in the fast lane: exercise and adult neurogenesis
- Break
- 15:15 – 15:35 Christiane Wrann (Massachusetts General Hospital, US)
The exercise hormone FND5 / irisin is required for the exercise-induced improvements of spatial learning and memory and hippocampal neurogenesis
- 15:35 – 15:55 Kai Diederich (German Federal Institute for Risk Assessment, Germany)
The more the merrier? Differential effects of exercise strategies and intensities on memory performance and neurogenesis
- 15:55 – 16:55 **Keynote:** Fred H. Gage (Salk Institute for Biological Studies, US)
Recent advances in the regulation and function of adult neurogenesis
- 17:00 – 19:00 Poster session II and drinks reception
- 19:00 Transportation to conference social
- 19:30 Conference social at Pulverturm Restaurant

Friday, May 4

- 09:00 – 09:35 Nora Arous (Université Bordeaux, France)
Influence of spatial learning on the connectivity of adult-born hippocampal neurons
- 09:35 – 09:55 Claire Rampon (CNRS, France)
Amplifying mitochondrial function rescues adult neurogenesis in a mouse model of Alzheimer's disease
- 09:55 – 10:15 Stefano Farioli Vecchioli (Institute of Cell Biology and Neurobiology, Italy)
Novel strategies to enhance adult neurogenesis through the CrispR/cas9-mediated conditional knockdown of p21Waf1/Cip1 gene
- Break
- 11:00 – 11:35 Alejandro Schinder (Leloir Institute, Argentina)
Network remodeling in the adult hippocampus by neurogenesis and experience
- 11:35 – 11:55 Sandra Wendler (CECAD Institute, Germany)
Role of mitochondrial fusion dynamics in adult hippocampal NSC lineage progression
- 11:55 – 12:15 Tara Walker (CRTD - Technische Universität Dresden, Germany)
Cell death in adult hippocampal neurogenesis is ferroptotic and rescued by selenium
- Lunch

- 13:15 – 13:50 Sandrine Thuret (King's College London, UK)
Neurogenesis factors as biomarkers of cognitive ageing and dementia
- 13:50 – 14:10 Evgenia Salta (KULeuven/VIB, Belgium)
MIR-132: promoting adult neurogenesis in Alzheimer's Disease
- 14:10 – 14:30 Iris Schöffner (Universität Erlangen, Germany)
FoxO-dependent autophagic flux controls development of the postsynaptic compartment of adult-generated hippocampal neurons
- 14:30 – 15:05 Sebastian Jessberger (University of Zurich, Switzerland)
Imaging the cellular dynamics of neurogenesis in the adult hippocampus
- 15:05 Close