

# EUROGENESIS

5<sup>th</sup> Eurogenesis meeting

Bordeaux, France // June 12-14<sup>th</sup> 2024

Adult Neurogenesis in Physiology and Disease

## Invited speakers

Fred Gage, René Hen,  
Hayder Amin, Ruth Beckervordersandforth, Catherine Belzung,  
Joseph Bischofberger, Hwai-Jong Cheng, Paul Frankland,  
Carlos Fitzsimons, Tatsuhiro Hisatsune, Jenny Hsieh,  
Marlen Knobloch, Maria Llorens-Martin, Victor Luna,  
Mirjana Maletic-Savatic, Stephen McHugh, Yvonne Nolan,  
Luisa Pinto, Evgenia Salta, Amar Sahay Jason Snyder,  
Sandrine Thuret, Hongjun Song, Verdon Taylor

## Organizers

Nora Abrous  
Sebastian Jessberger  
Gerd Kempermann  
Chichung Lie  
Paul Lucassen  
Alejandro Schinder  
Nicolas Toni

Crédit photo : Vincent Bengold

[eurogenesis.sciencesconf.org](http://eurogenesis.sciencesconf.org)

## Wednesday, June 12<sup>th</sup>

**09:00-10:00 Opening session by R HEN (USA)** Harnessing neurogenesis to decrease overgeneralization

### Regulation of Stem cells

**Chair: Chichung Lie**

- **10:00-10:30 M KNOBLOCH (Switzerland)** Metabolic regulation of neural stem cell
- **10:30-11 :00** Break around the posters
- **11:00-11:30 V TAYLOR (Switzerland))**
- **11:30: 12:00 HJ CHENG (Taiwan)** Integration of cultured progenitors from adult dentate gyrus into mature hippocampal circuits
- **12:00-12:30 DC LIE (Germany)**

### Integration into network

**Chair: Sebastian Jessberger**

- **14:30-15:00 R BECKERVORDERSANDFORTH (Germany)** The role of astrocyte diversity in adult hippocampal neurogenesis
- **15:00-15:30 S JESSBERGER (Switzerland)** Properties of hippocampal progenitors across adulthood
- **15:30-16:00** Break around the posters
- **16:30-17:00 J BISCHOFBERGER (Switzerland)** Environmental enrichment increases dendritic inhibition in the hippocampus
- **17:00-19:00** Selected presentations

WINE AND CHEESE AROUND THE POSTERS

## Thursday, June 13<sup>rd</sup>

### Neurogenesis and hippocampal network

**Chair: Alejandro Schinder**

- **09:00-09:30 H SONG (USA)** Dual role of young adult born dentate granule cells in spatial encoding
- **09:30-10:00 A SCHINDER (Argentina)** Building new granule cells from molecules to function
- **10:00-10:30 H AMIN (Germany)** Computational signatures of neural dynamics: a multiscale approach
- **10:30-11:00** Break around the posters

- **11:00-11:30 S MCHUGH (UK)** Adult-born dentate granule cells promote hippocampal population sparsity
- **11:30-12:00 T HISATSUNE (Japan)** Dentate newborn neurons contribute to hippocampal excitatory/inhibitory balance and behavioral inhibition and flexibility
- **12:00-12:30 G KEMPERMANN (Germany)** New neurons for individuality: the roles of learning and social behaviors

### Role of adult-born neurons in memory processing

**Chair: Gerd Kempermann**

- **14:30-15:00 J SNYDER (Canada)** Functional properties of dentate gyrus neurons born in development and adulthood
- **15:00-15:30 P FRANKLAND (Canada)** Hippocampal neurogenesis and memory generalization
- **15:30-16:00** Break around the posters
- **16:30-17:00 DN ABROUS (France)** Old but strong: the key to successful cognitive aging lies with adult-born hippocampal neurons
- **17:00-17:30 V LUNA (USA)** Adult-born neurons differentially impact contextual fear memories in aged female versus male mice
- **17:30-18:00 A SAHAY (USA)** Immature neurons recruit inhibition to consolidate social memories
- **18:00-18:30** Selected presentations

**BE TOGETHER SOCIAL EVENT**

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**Friday, June 14<sup>th</sup>**

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### Role of adult born neurons in Human

**Chair: Paul Lucassen**

- **09:00-09:30 M LLORENS-MARTIN (Spain)** Healthy and pathological adult hippocampal neurogenesis in human beings
- **09:30-10:00 S THURET (UK)** Hippocampal progenitor cells as biomarkers of cognitive ageing & dementia
- **10:00-10:30** Break around the posters
- **10:30-11:30** Selected presentations
- **11:30-12:00 M MALETIC-SAVATIC (USA)**
- **12:00-12:30 Y NOLAN (Irlande)**
- **12:30-13:00 E SALTA (Netherlands)** Cellular and molecular mapping of the human adult neurogenic niche in Alzheimer's disease and resilience

### Role of adult born neurons in diseases

**Chair: Nicolas Toni**

- **14:00-14:30 C BELZUNG (France)** Adult newborn hippocampal neurons and PTSD: underlying mechanisms
- **14:30-15:00 L PINTO (Portugal)** Impact of hippocampal adult-born neurons for brain circuitry and behavior in depression
- **15:00-15:30 J HSIEH (USA)** Stem cell approaches to understanding acquired and inherited epilepsies
- **15:30-16:30** around the posters
- **16:30-17:00 N TONI (Switzerland)** Circulating lipids regulate adult neurogenesis in the context of anxiety
- **17:00-17:30 C FITZSIMONS (Netherlands)** Traumatic brain injury promotes neurogenesis at the cost of astroglialogenesis in the adult hippocampus

**17:30-18:30 Concluding session by FH Gage (USA)** Molecular Mechanisms Regulating Novelty Recognition

**FARWELL PARTY**