

4rd Eurogenesis conference in Bordeaux

**« Adult Neurogenesis in Physiology and Disease »
(June, 11-13th 2019)**

Tuesday, June 11th
Regulation of stem cells
Chair: Sebastian Jessberger

08:00-08:45 Registration

08:45-09:00 Welcome address

09:00-10:00 H. SONG (USA)

Single-cell analysis of adult neural stem cells and neurogenesis

10:00-10:30 F. GUILLEMOT (UK)

Diversity and ageing of hippocampal stem cells

10:30-11:00 Coffee break

11:00-11:30 D.C. LIE (Germany)

Transcriptional regulation of adult-born neuron development

11:30: 12:00 H. MIRA (Spain)

A Multifaceted Role for BMP Signaling in Adult Hippocampal Neurogenesis

12:00-12:30 A. BRUNET (USA)

Mechanisms of neural stem cell aging

12:30-14:30 Lunch on your own

Integration into the network

Chair: Chichung Lie

14:30-15:00 S. JESSBERGER (Switzerland)

Heterogeneity of neurogenic stem cells in the adult hippocampus

15:00-15:30 J.M. ENCINAS (Spain)

ATP links neuronal hyperexcitation and induction of reactive neural stem cells

15:30-16:00 J.C. PLATEL (France)

Neuronal integration and survival in the olfactory bulb

16:00-16:30 Coffee break

16:30-17:00 N. TONI (Switzerland)

Stem cells: From ultrastructure to niche regulation mechanisms

17:00-17:30 A. SCHINDER (Argentina)

Long-lasting remodeling of hippocampal networks by neurogenesis

17:30-18:00 Selected communications

J. VALERO (Spain) Microglia actively remodels adult hippocampal neurogenesis through the phagocytosis secretome

A. SHARIF (France) Characterization of the neural stem cell niche in the adult human hypothalamus

19:00 Wine and Cheese Hôtel Mercure

Wednesday, June 12th
From networks to functions

Chair: Nicolas Toni

9:00-9:30 G. KEMPERMANN (Germany)

Adult neurogenesis as an individualizing trait

9:30-10:00 H. VAN PRAAG (USA)

Regulation of adult neurogenesis by exercise

10:00-10:30 E. PACARY (France)

Rnd2: a new player in the development and function of adult-born hippocampal neurons

10:30-11:00 Coffee break

11:00-11:30 P. FRANKLAND (Canada)

Hippocampal neurogenesis and memory stability

11:30-12:00 A. SAHAY (USA)

Dentate granule cells, memory discrimination and generalization

12:00-12:30 Selected communications

H. GHOSH (India) A novel regulator of adult neurogenesis and fate-decision in the dentate gyrus

V. LUNA (USA) Adult born neurons monosynaptically inhibit and excite mature granule cells in the dentate gyrus

12:30-14:30 Lunch on your own

Neurogenesis in humans

Chair: Juan Manuel Encinas

14:30-15:00 A. ALVAREZ-BUYLLA (USA)

Neural stem cells and adult neurogenesis from rodents and humans

15:00-15:30 M. BOLDRINI (USA)

Adult neurogenesis in the human brain in health and disease

15:30-16:00 H. ADLE-BIASSETTE (France)

Human hippocampal neurogenesis from development to ageing

16:00-16:30 Coffee break

16:30-17:00 M. MALETIC-SAVATIC (USA)

Fatty acids as signaling molecules and biomarkers of neurogenesis

17:00- 17:30 S.THURET (UK)

Alteration of Hippocampal Neurogenesis by the human systemic milieu: A biomarker of cognitive ageing and dementia

17:30-18:00 M. LLORENS-MARTIN (Spain)

Adult neurogenesis is abundant in the hippocampus of neurologically healthy subjects and drops sharply in Alzheimer's disease patients

Gala Dinner Café du Port: Magic Night!

Thursday, June 13th
Role of adult born neurons in diseases

Chair: Paul Lucassen

9:00-9:30 C.P. FITZSIMONS (The Netherlands)

Circadian Glucocorticoid Oscillations Preserve a Population of Adult Hippocampal Neural Stem Cells in the Aging Brain

9:30-10:00 Selected communications

E. SALTA (Belgium) MicroRNA-132 restores adult hippocampal neurogenesis and memory deficits in Alzheimer's disease

F. CHAMAA (Libanon) Modulation of Hippocampal Neurogenesis in Awake Rats by Electrical and Chemical Thalamic Stimulation

10:00-10:30 I. SOTIROPOULOS I (Portugal)

Tau-dependent and -independent mechanisms of adult cytogenesis suppression in stress-driven brain pathology

10:30-11:00 Coffee break

11:00-11:30 C.D. MANDYAM (USA)

Neurogenesis mechanisms of addiction

11:30-12:30 Selected communications

V. OLIVEIRA MOREIRA (France) OTX2 signals from the choroid plexus to regulate adult neurogenesis

R. BECKERVORDERSANDFORTH (Germany) Adult astrogenesis and functional astrocyte heterogeneity in the adult mouse hippocampus

M. DAHAB (Germany) Deletion of the chloride transporter NKCC1 increases radial glia-like stem cell pool in the hippocampus and impairs learning and memory performance in adult mice

I. BLOMFIELD (UK) Id4 eliminates the pro-activation factor Ascl1 to maintain quiescence of adult hippocampal stem cells

12:30-14:30 Lunch on your own

Role of adult born neurons in stress-related disorders

Chair: Alejandro Schinder

14:30-15:00 C. BELZUNG (France)

Neurogenesis and neuro stimulation

15:00-15:30 P. LUCASSEN (Netherlands)

Plasticity changes in relation to early life stress and depression

15:30-16:00 Selected communications

A ZEPEDA (Mexico) Neurogenesis as a correlate of functional reorganization in the damaged dentate gyrus

M. FOGLI (Italy) Transient neurogenic niches are generated by the sparse and asynchronous activation of striatal astrocytes after excitotoxic lesion

16:00-16:30 Coffee break

16:30-17:00 L. PINTO (Portugal)

Time-dependent functional correlates of adult hippocampal cytogenesis: Relevance to Depression

17:00-18:00 R. HEN (USA)

Modulation of entorhinal input by adult-born hippocampal neurons: impact on mood and cognition

18:00-18:15 Meeting closure/ Group photos

Farewell Party La Grande Poste