



## RED OLFATIVA ESPAÑOLA (SPANISH OLFACTORY NETWORK): TOPIC SERIES ON OLFACTION 2015

**TITLE: 50<sup>th</sup> Anniversary of Adult Neurogenesis: Olfaction, hippocampus and beyond**

### Thursday, November 5<sup>th</sup>

20:00-21:00 *Arrival to the "Palacio de los Condes de Valparaiso".*

21:30 *Dinner at Restaurant "La Muralla".*

### Friday, November 6<sup>th</sup>

9:00 h. Welcome by the Organizing Committee

**Laura López Mascaraque**

Instituto Cajal – CSIC

9:30 h. 50<sup>th</sup> Anniversary of Adult Neurogenesis: so many things celebrating 50 years in 2015

**José Luis Trejo**

Instituto Cajal - CSIC

9:45 h. Presentation of the Adult Neurogenesis Network (RENA)

**José Luis Trejo**

Instituto Cajal- CSIC

10:00 h. Inaugural Conference: History of Adult Neurogenesis

**José Ramón Alonso**, David Díaz, Eduardo Weruaga

INCyL. IBSAL. Universidad de Salamanca

11:00 h. Official opening

**Daniel Reina Ureña**, Almagro Mayor

**Juan Emilio Felú Albiñana**, Ciudad Real Medical School Dean

**Laura López-Mascaraque**, ROE President

**Cecilia Fernández Vaquero**, UCLM Research Academic Director

11:30 h. *Coffee break*

12:00 h. Newborn-cells and amyloid- $\beta$  in the olfactory bulb of app/ps1 mice model of Alzheimer's disease: differential interneuron vulnerability

De la Rosa-Prieto C., Saiz-Sanchez D., Ubeda-Banon I., Flores-Cuadrado A.,  
**Martinez-Marcos A**

Facultad de Medicina de Ciudad Real. CRIB. Universidad de Castilla-La Mancha

12:30 h. Adult hippocampal neurogenesis, Alzheimer's disease and neuroinflammation. A dangerous triangle

**María Llorens-Martín**, Jesús Ávila

Centro de Biología Molecular Severo Ochoa. CSIC-UAM

13:00 h. Amyloid precursor protein expression regulates the neuronal differentiation of Human Neural Stem Cells

**Coronel R**, Revilla A, Muñiz M.M, Kutluer M, Gonzalez C, Liste I

Unidad de Regeneración Neural, (UFIEC), Instituto de Salud Carlos III, Madrid

13:15 h. EGFR inhibition reduces aberrant cell proliferation in hyperexcitatory kainate model of epilepsy

Soraya Martín-Suárez, Juan Manuel Encinas, **Jose R. Pineda**

Achucarro Basque center for Neuroscience Fundaizoa

13:45 h. Up-regulation of extracellular matrix anosmin-1 increases neurogenesis in the adult CNS. Implications for neural repair

**de Castro, F.**, García-González, D., Murcia-Belmonte, V., Lebrón-Galán, R., Sánchez-Raya, I., F.J., Villadiego, Ortega, F., Berninger, B., & Toledo-Aral, J.J.

Grupo de Neurobiología del Desarrollo-GNDe, Instituto Cajal-CSIC, Madrid, Spain

14:15 h. *LUNCH at Restaurant "La Muralla".*

16:00 h. Generation of induced Pluripotent Stem Cells (iPSCs) using non-integrative vectors: Potential applications in neurodegeneration

Kutluer M.<sup>a</sup>, **Muñiz M.M.**<sup>a</sup>, Coronel R., Revilla A., Gonzalez C., Salazar A., Borges A., Liste I.

Unidad de regeneración neural; Unidad Funcional de Investigación de Enfermedades Crónicas, Instituto de Salud Carlos III, Majadahonda (Madrid) Spain. <sup>a</sup> Both authors contributed the same to the work.

16:15 h. Cell fate lineage analysis and molecular identity of adult OB interneurons

**Maria Figueres-Oñate**, Laura López-Mascaraque

Instituto Cajal-CSIC

16:30 h. Lack of E2F1 protein enhances learning and memory

**Anna Pallé López**, Ángela Fontán, José María Frade, José Luis Trejo

Instituto Cajal-CSIC

16:45 h. *Guided visit to Almagro, starting from the Palacio Condes de Valparaiso.*

18:00 h. *Dramatized visit to the Almagro Corral de Comedias.*

21:30 h. *Gala dinner at the Parador Nacional*

23:30 h. *Billiards, Karaoke and beyond at the Pecado Pub, reduced prices at your own discretion.*

## Saturday, November 7<sup>th</sup>

- 9:00 h. The Subventricular Zone: A Unique Inflammatory Niche  
Abeer Al-Shammari, **Francis Szele**  
University of Oxford
- 9:30 h. SOXD genes in the control of adult neurogenesis  
M. Mar Muñiz<sup>1</sup>, Alejandra C. Quiroga<sup>1</sup>, Marco A. Cañizares<sup>1</sup>, Fausto Vélez<sup>1</sup>, Elena Calleja<sup>1</sup>, Lingling Li<sup>1</sup>, Ruth Diez del Corral<sup>1</sup>, Silvia Nicolis<sup>3</sup>, Véronique Lefebvre<sup>2</sup> and **Aixa V. Morales**<sup>1</sup>.  
1Instituto Cajal, (C.S.I.C), Madrid, Spain.  
2Cleveland Clinic Lerner Research Institute, Cleveland, Ohio, USA  
3University of Milano-Bicocca, Milano, Italy.
- 10:00 h. Elucidating the molecular program underlying adult hippocampal neural stem cell quiescence  
Laura Remacha, Andrea Asenjo, Tomás Armenteros, Rafael Hortigüela, **Helena Mira**  
Instituto de Salud Carlos III
- 10:30 h. Olfactory bulb plasticity ensures proper olfaction after severe impairment in neurogenesis  
**David Díaz**, Rodrigo Muñoz-Castañeda, Carlos del Pilar C, Xavier Lorenzo Castro, Carmelo Ávila, José Ramón Alonso, Eduardo Weruaga  
Instituto de Neurociencias de Castilla y León, Universidad de Salamanca
- 11:00 h. *Coffee break*
- 11:30 h. Role of systemic and brain IGF-I in the regulation of postnatal/adult hippocampal neurogenesis  
**Carlos Vicario Abejón**, Vanesa Nieto-Estévez, Carlos O. Oueslati-Morales, James Pickel  
Instituto Cajal, CSIC
- 12:00 h. Leucine-rich repeat kinase (LRRK2) inhibitors as neurogenic agents.  
**Josefa Zaldivar**<sup>1</sup>, Irene García Salado<sup>1,2</sup>, Jose A. Morales<sup>3</sup>, Daniel I. Perez<sup>1</sup>, A. Perez-Castillo<sup>3</sup>, Carmen Gil<sup>1</sup>, Ana Martinez<sup>1</sup>.  
1Centro de Investigaciones Biológicas-CSIC, Avda. Ramiro Maetzu 9, 28040 Madrid. 2Present address: Universiteit Antwerpen, Campus Drie Eiken, Universiteitsplein 1, 2610 Antwerpen. 3Instituto de Investigaciones Biomédicas “Alberto Sols”, Arturo Duperier 4, 28029 Madrid.
- 12:15 h. Characterization and Isolation of immature neurons of the adult mouse piriform cortex  
**María Bellés**, A. Rubio, G. Belenguer, I. Garcia-Mendoza, I. Fariñas, J. Nacher  
Universidad de Valencia

- 12:30 h. Long term live imaging of adult neural stem cells. Mechanisms controlling neurogenic and oligodendroglial lineages
- Felipe Ortega**<sup>1</sup>, Sergio Gascón<sup>2,3</sup>, Giacomo Masserdotti<sup>2,3</sup>, Christiane Simon<sup>2</sup>, Aditi Deshpande<sup>2</sup>, Leda Dimou<sup>2,3</sup>, D. Chichung Lie<sup>4</sup>, Timm Schroeder<sup>5</sup>, Benedikt Berninger<sup>2,3,6</sup>
- 1 Department of Biochemistry and Molecular Biology IV, Veterinary School, UCM Madrid (Spain). 2 Department of Physiological Genomics, Institute of Physiology LMU. 3 Institute of Stem Cell Research, Helmholtz Zentrum München. 4 Institute of Biochemistry, Emil Fischer Center, University Erlangen-Nürnberg, Erlangen, Germany. 5 Stem Cell Dynamics research unit, Helmholtz Zentrum München. 6 Institute of Physiological Chemistry, University Medical Center Johannes Gutenberg University, Mainz
- 13:00 h. Closing Conference: Programming of Neural Progenitors of the Adult Subependymal Zone
- Benedikt Berninger**
- Institute of Physiological Chemistry, University Medical Center Johannes Gutenberg University Mainz
- 14:00 h. General Discussion / Closing Remarks
- 14:30 h. *LUNCH at Restaurant "La Muralla".*
- 17:00 h. *Outreach activity: Olfaction and Taste activity for the city. Universidad Popular*