



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

TITLE: 50th Anniversary of Adult Neurogenesis: Olfaction, hippocampus and beyond

Thursday, November 5th

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

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

Friday, November 6th

9:00 h. Welcome by the Organizing Committee

Laura López Mascaraque

Instituto Cajal – CSIC

9:30 h. 50th 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- β 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.^a, **Muñiz M.M.**^a, 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. ^a 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 7th

- 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 Muñiz¹, Alejandra C. Quiroga¹, Marco A. Cañizares¹, Fausto Vélez¹, Elena Calleja¹, Lingling Li¹, Ruth Diez del Corral¹, Silvia Nicolis³, Véronique Lefebvre² and **Aixa V. Morales**¹.
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 Zaldivar¹, Irene García Salado^{1,2}, Jose A. Morales³, Daniel I. Perez¹, A. Perez-Castillo³, Carmen Gil¹, Ana Martinez¹.
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**¹, Sergio Gascón^{2,3}, Giacomo Masserdotti^{2,3}, Christiane Simon², Aditi Deshpande², Leda Dimou^{2,3}, D. Chichung Lie⁴, Timm Schroeder⁵, Benedikt Berninger^{2,3,6}
- 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*