



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

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

November 5

20:00-21:00 Arrival to the “Palacio de los Condes de Valparaiso”.

21:30 Dinner at Restaurant “La Muralla”.

November 6

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
- 12:20 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
- 12:40 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
- 12:50 h. Generation of induced Pluripotent Stem Cells (iPSCs) using non-integrative vectors: Potential applications in neurodegeneration
Kutluer M., Muñiz M.M., Coronel R., Revilla A., Gonzalez C., Salazar A., Borges A., Liste I.
Unidad de Regeneración Neural, (UFIEC), Instituto de Salud Carlos III, Madrid
- 13:00 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
- 13:20 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
- 13:40 h. DISCUSSION
- 14:00 h. LUNCH at Restaurant "La Muralla".
- 16:00 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.

November 7

- 9:00 h. The Subventricular Zone: A Unique Inflammatory Niche
Abeer Al-Shammari, **Francis Szele**
University of Oxford
- 9:20 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.
- 9:40 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
- 10:00 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
- 10:20 h. Cell fate lineage analysis and molecular identity of adult OB interneurons
Maria Figueres-Oñate, Laura López-Mascaraque
Instituto Cajal-CSIC
- 10:30 h. Characterization and Isolation of immature neurons of the adult mouse piriform cortex
María Ballés, Juan Nacher
Universidad de Valencia
- 10:40 h. Lack of E2F1 protein enhances learning and memory
Anna Pallé López, Ángela Fontán, José María Frade, José Luis Trejo
Instituto Cajal-CSIC
- 10:50 DISCUSSION
- 11:30 h. COFFE BREAK
- 12:00 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

- 12:20 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.
- 12:30 h. Long term live imaging of adult neural stem cells. Mechanisms controlling neurogenic and oligodendroglial lineages
Felipe Ortega¹, 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)
2Department 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,
6Institute of Physiological Chemistry, University Medical Center Johannes Gutenberg University, Mainz
- 12:50 h. DISCUSSION
- 13:30 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
- 14:30 h. LUNCH at Restaurant “La Muralla”.
- 17:00 h. Outreach activity: Olfaction and Taste activity for the city
Universidad Popular