

4th Annual Meeting

Mouse Models for Neuroscience Research Network

Center for Genomic Regulation (Barcelona, Spain)
December 1st, 2005

PROGRAM

- 08:00 – 08:30 Registration
- 08:30 Presentation and Wellcome
- 08:30 – 09:30 **Plenary Lecture:** A. Gruart - *Involvement of the CA3-CA1 synapse in the acquisition of associative learning in behaving mice*
- 09:30 – 10:30 **Session I:** *Animal models of neuropsychiatric disorders and their relevance for the development of evidence-based therapy.*
Chair: F. Berrendero
- F. Berrendero, L. Galeote, B. L. Kieffer, R. Maldonado - *Papel de los receptores opioides en los efectos farmacológicos inducidos por la nicotina*
 - L. Díaz-Mataix, A. Bortolozzi, M. C. Scorza, M. Toth, P. Celada, F. Artigas - *Involvement of 5-HT1A receptors in prefrontal cortex in the modulation of dopaminergic activity. Role in atypical antipsychotic action*
 - G. Estivill-Torrús, P. Llebreg-Zayas, E. Matas-Rico, E. Gil-Lara, A. Bilbao, C. Pedraza, L. Santín, J. Chun, F. Rodríguez de Fonseca - *The lysophosphatidic acid receptor LPA1: a new regulator for neurogenesis and cognitive processes*
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:00 **Invited Seminar:** A. Giraldez - *The roles of miRNAs during vertebrate development*
- 12:15 – 13:30 **Session II:** *Understanding cellular alterations in neural circuits: animal models of cognitive disorders.*
Chair: M. Morales
- F. J. Tejedor, J. Colonques, J. Ceron, B. Hammerle - *The proliferative centers of the larval optic lobe of drosophila: an experimental model where to study the genetic and molecular bases of neural progenitor cells*
 - G. Abello, F. Giráldez, B. Alsina - *Neural versus non-neural regionalization of the otic placode*
 - C. Pujades, A. Kamaid, B. Alsina, F. Giraldez - *BMP-signaling regulates the generation of hair-cells*
 - M. Morales, M. Martínez, M. Calvo, M. Dierssen - *Spine actin dynamics in Dyrk1 transgenic mouse model*
- 13:30 – 15:00 Lunch – **Poster Session³**
- 15:00 – 16:00 **Round Table:** *Neuroscience in Spain*
J.R. Naranjo, J. Rodríguez, F. Artigas, A. Gruart
- 16:00 – 17:00 **Session III:** *Use of transgenic animals in the study of CNS signal transduction pathways.*
Chair: J.R. Naranjo
- P. Linares-Clemente, P. García-Junco-Clemente, C.O. Pintado, F. Schmitz, R. Fernández-Chacón - *Imaging synaptic vesicle exo- and endocytosis in cerebellar mossy fiber synaptosomes from SynaptopHluorin transgenic mice*
 - R. Gomez-Villafuertes, A. Gutierrez-Adam, B. Pintado, J. Barrio, B. Mellström, J.R. Naranjo - *DREAM regulates Ca²⁺ homeostasis and viability in cerebellar neurons*
 - R. Ruiz, L. Tabares - *Characterization of neurotransmission in neuromuscular degeneration (mmd) mice*

17:00 – 17:30	Coffee Break
17:30 – 18:30	Session IV: Neuroprotection and neurodegeneration. Chair: J. Rodríguez <ul style="list-style-type: none"> • H. Peluffo, L. Acarin, A. Arís, P. González, A. Villaverde, B. Castellano, B. González - <i>Neuroprotection from excitotoxic damage by Cu/Zn superoxide dismutase gene delivery to the postnatal rat brain using a modular non-viral protein vector</i> • R. Trullas, A. Abad, M. Enguita, N. DeGregorio-Rocasolano - <i>Over-expression of Neuronal Pentraxin 1 reduces neurite outgrowth before cell death in human neuroblastoma SH-SY5Y cells</i> • J. Alberch, J.M. Canals, J.R. Pineda, D. del Toro, J.F. Torres-Peraza - <i>Generación de ratones transgénicos con huntingtina mutada y distintos niveles de BDNF para el estudio de la fisiopatología de la enfermedad de Huntington</i>
18:30 – 19:30	Plenary Lecture: A. Barco - <i>Role of the CREB activation pathway in the consolidation of synaptic plasticity and memory processes</i>
20:30	Buses at CRG to go to Razzmatazz ¹
21:00	Buffet + Live Music at Razzmatazz (Sala Lolita) ²

Sponsors:

Panlab
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¹ For those that **will come to the buffet light dinner at Razzmatazz** we have arranged a **bus to meet you at CMIMA building at 20:30h** and take you to the party. Please be on time!!!

² Take note that **we will offer you a varied catering with beverages from 21:00 to 23:00h. After this time, the beverages will be at your own charge.**

³ Poster Session

1. Role of DYRK1A in neuromotor development of CNS: implications in Down's syndrome
G. Arqué, A. Casanovas, M. Dierssen

2. Characterization of the hypothalamic-pituitary-adrenal axis and the dopaminergic system in rats genetically selected in function of anxiety trait
C. Márquez, G. Roig, R. Nadal, R. Landgraf, A. Armario

3. Towards the identification of the *anx* mutation and of eating behavior pathways in the *anx/anx* murine model for anorexia nervosa
J.M. Mercader, M. Gratacòs, M. Ribasés, X. Estivill

4. Prenatal and postnatal characterization of cortical neurons of transgenic mice overexpressing DYRK1A
M. Martínez de Lagrán, G. Ramakers, I. Ballesteros, J. de Felipe, M. Dierssen.

5. Characterizing the phenotype of a transgenic mouse model overexpressing $\beta 4$, $\alpha 3$ and $\alpha 5$ nicotinic acetylcholine receptor subunits.
X. Gallego, Ll. Armengol, M. Dierssen

6. BACE2 (beta-secretase) overexpression accelerates memory impairment and noradrenergic system dysregulation in mice
A. Amador-Arjona, G. Arqué, I. Sahún, M. Dierssen

7. Caracterización de la respuesta hormonal y conductual frente a las situaciones estresantes en un modelo KO para el receptor NK1 de la sustancia P
R. Delgado-Morales, E. del Río, V. Bisagno, C. de Felipe, A. Armario

8. Understanding Psychopathology of Panic Disorder: Consequences of NTRK3 Overexpression on Fear Circuit

I. Sahún, M. Dierssen

9. Papel del TNF α en la muerte apoptótica provocada por la privación de oxígeno y glucosa (OGD)

N. Badiola, C. Malagelada, B. Barneda, R. Fado, J. Sabriá, J. Hidalgo, J. Rodríguez-Alvarez

10. Modulación de la expresión génica por calcipresina 1 en cerebelo de ratón en desarrollo

S. Porta Antolínez, L. Sumoy Van Dyck, E. Martí Puig, M. Arbonés De Rafael

11. La inactivación del receptor Dopaminérgico D1 bloquea el aprendizaje espacial y la potenciación sináptica duradera (L-LTP)

O. Ortiz, N. Granado, L.M. Suárez, J.M. Solís, R. Moratalla

12. PET technology for the study of CNS: first steps at IAT-PRBB

V Gómez, J Llop, JD Gispert, M Martinez, A Martín, S Rojas, S García, A Planas, M Dierssen, C Sanfeliu, O Millán