



SENC

Sociedad Española de NeuroCiencia

**Fourth
Cajal Winter Conference**

**Genetic, Cellular and
Network Basis of
Cognition**

March 2-6, 2008
Benasque, Huesca (Spain)

Final Programme

The Sociedad Española de NeuroCiencia (SENC) announces the celebration of the Fourth **Cajal Winter Conference**. The aim of this series of Conferences is to bring together specialists in a given area of Neuroscience, mainly from Spain, to present their recent data and discuss with world leaders in the field on common interests in an open, informal atmosphere.

Committees

SENC

Roberto Gallego, *President*
Carmen Cavada, *President-elect*
Mara Dierssen, *Vice-President*
Laura López-Mascaraque, *Secretary*
Félix Viana, *Treasurer*
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Javier Yajeya



Cajal Winter Conferences

Francesc Artigas, *chair*
Javier Cudeiro
Javier de Felipe
Angel Pazos
Félix Viana



Venue and accommodation

Benasque is a nice mountain village near the highest peak in Pyrenees, Monte Aneto (3404 m) with the ski resort of Cerler at 6 km. The Benasque valley offers unique mountain landscapes and the opportunity for strolling and hiking along many trails as well as visiting interesting ancient houses and churches . The Conference will take place in the Casa de Cultura of the Benasque City Hall, in the center of the village, very close to the hotels. The conference room is equipped with standard projection. The main hotel will be Hotel Ciria (Ave. los Tilos s/n, phone +34 974 551612, fax +34 974 55 10 80; e-mail: hotelciria@hotelciria.com), Dinners for all participants will take place at the Hotel Ciria.



Registration

Registration costs include the conference fee for participants (150 €) plus accommodation expenses (check-in March 2, check-out March 6). These are as follows (for participants and accompanying persons)

- **Double room, single occupancy: 420 €**
- **Double room: 280 €/person**
- **Triple room: 265 €/person**
- **Quad room (penthouses): 255€/person**

Thus, the total cost of a participant wishing to stay in a double room with single occupancy is 570 €. Separate receipts can be made on request for the conference and accommodation expenses. The SENC will take care of accommodations only during the conference days. Those participants or accompanying persons who wish to stay in the same hotel before or after the Conference must contact Hotel Ciria directly for these extra days (phone 974 551612, fax 974 55 10 80; e-mail: hotelciria@hotelciria.com).

Cancellation

Cancellations made before February 15 will be fully refunded. Those after that date will be refunded by 80%. Cancellation notice should be sent to the secretary of SENC at senc@uam.es.



Conference Programme

Sunday March 2

16:00-20:30 **Registration**

21:00 **Dinner**

Monday March 3

15:15 *F Artigas*. Welcome address

15:30 **Oral communications**. Chair: *R Gallego*

15:30 AP Fernández, J Serrano, A Martínez. *Lack of adrenomedullin in the mouse brain results in behavioural changes, anxiety, and lower survival under stress conditions*

16:00 D Echevarría, T Escámez, O Bahamonde, R Tabares-Seisdedos, S Martínez. *Role of *lis1* expression in cortical development of mammals*

16:30 M Santos, A Silva-Fernandes, P Oliveira, N Sousa, P Maciel. *Evidence for abnormal early development in a mouse model of Rett syndrome*

17:00 M Dierssen. *Mice, men, and mental illness: animal model of human mental retardation*

17:30 **Round table**: *Genes, circuits and CNS disorders*



Tuesday March 4

16:00 **Oral communications.** *Chair: M Dierssen*

16:00 J Cudeiro, C Rivadulla, C de Labra, M da Silva, J Mariño. *Neurovascular coupling says NO in the visual thalamus*

16:30 M Molano-Mazón , X Wang , FT Sommer , JA Hirsch, LM Martínez. *Synaptic origin and perceptual consequences of the push-pull structure of thalamic receptive fields*

17:00 **Plenary lecture**

Adam M Sillito. *Circuits Versus Hierarchies in Visual Processing*

18:00 **Coffee break**

18:30 **Oral communications.** *Chair: J Cudeiro*

18:30 L Lladó-Pelfort, A Newman-Tancredi, F Artigas , P Celada. *The 5-HT_{1A} paradox: why 5-HT inhibits and 5-HT_{1A} agonists activate pyramidal neurons in prefrontal cortex through 5-HT_{1A} receptors ?*

19:00 P Celada, MV Puig, L Díaz-Mataix, F Artigas. *The hallucinogen DOI reduces low frequency oscillations in rat prefrontal cortex. Reversal by antipsychotic drugs*

19:30 **Poster session**

21:00 **Dinner**



Wednesday March 5

16:00 **Oral communications.** *Chair: LM Martínez*

16:00 N Santana, G Mengod, P Celada, F Artigas. *Role of thalamocortical circuits on the excitatory actions of phencyclidine in prefrontal cortex: a c-fos study*

16:30 F Edin, T Klingberg, P Johansson, F McNab, J Tegnér, A Compte. *Frontal and parietal basis of working memory capacity*

17:00 **Plenary lecture**

Ray J Dolan. Neuroimaging of Decision Making

18:00 **Coffee break**

18:30 **Oral communications.** *Chair: A Compte*

18:30 N Ibarretxe-Bilbao, C Junqué, M Zarei. *Orbitofrontal gray matter volume loss is related to deficits in decision-making and recognition of emotions in Parkinson's disease*

19:00 D Fernández-Espejo, C Junqué, P Vendrell, JM Mercader, M Bernabeu, T Roig-Rovira. *Preservation of cerebral response to language stimuli in absence of overt response. fMRI in the vegetative and the minimally conscious states*

19:30 **Poster session and closing**

21:00 **Dinner**



Poster presentations

Posters must be mounted on the boards on Sunday 2 or Monday 3 and will remain on display during the whole conference. Authors should be at their posters at the end of oral sessions.

Poster size is **90 cm x 140 cm (portrait)**.

P1. FJ Perales, M González, P de Miguel. *Volumetrical analysis of hippocampus in the evolution of Alzheimer disease using MRI*

P2. V García-Marín, L Blázquez-Llorca, J de Felipe. *Close spatial relationship between neurons and senile plaques*

P3. L Blázquez-Llorca, V García-Marín, J de Felipe. *Pericellular innervation of tau-positive neurons in the hippocampus of Alzheimer disease patients*

P4. E Reyes-Irisarri, M Markerink-Van Ittersum, G Mengod, J de Vente. *Expression of the cGMP-specific phosphodiesterases PDE2 and PDE9 in normal and Alzheimer's disease human brains*

P5. S Molas, X Gallego, M Dierssen. *Cyclic AMP levels reveal alterations of the central noradrenergic transmission in a mouse model of anxiety disorders*

P6. J Serrano, AP Fernández, J Rodrigo, A Martínez. *Adrenomedullin expression is up-regulated by acute hypobaric hypoxia in the cerebral cortex of the adult rat*

P7. AP Fernández, J Serrano, J Rodrigo, E Monleón, M Monzón, A Vargas, JJ Badiola, R Martínez-Murillo, A Martínez. *Changes in the expression pattern of nitergic system of ovine cerebellum affected by scrapie*

