

❖ 6ª Reunião da Sociedade Portuguesa de Neurociências

7-8 de Setembro, 1999

Local: Lisboa - Hotel Tivoli

Comissão Organizadora:

- Deolinda Lima
- José M. Castro Lopes
- Isaura Tavares

Programa:

Tuesday, 7

9:00 - Opening Session

9:15 - Plenary lecture

Gene therapy for neurological disorders

Pedro Lowenstein

10:15 - Coffee break

10:45 - Symposium

Embryonic development of the nervous system

- *Vertebrate neurogenesis and the role of the Delta-Notch pathway*
Domingos Henrique
- *Specification of sensory neurogenesis in the neural crest*
David Anderson
- *The role of rhombic lip in cerebellar development*
Richard Wingate

- *Molecular analysis of the P/Q type Ca^{2+} channel $\alpha 1$ -subunit gene in patients with progressive cerebellar ataxia*
I. Alonso, M. C. Moreira, P. Mendonça, L. Jardim, J. Barros, P. Coutinho, J. Sequeiros and I. Silveira
- *Characterization of fluorescence properties of the metallochromic indicator zincon*
M. Arif, P. Oliveira and M. E. Quinta-Ferreira
- *Fluorescence decay of the zinc indicator N-(6-methoxy-8-quinolyl)-P-toluenesulfonamide (TSQ)*
M. Arif, P. Oliveira and M. E. Quinta-Ferreira
- *Involvement of oxidative stress on β amyloid and metals neurotoxicity in cultured chick retinal cells*
J. Barbosa de Melo, P. Agostinho and C. R. Oliveira
- *Apoptosis in Alzheimer's disease*
S. M. Cardoso, R. H. Swerdlow and C. R. Oliveira
- *LY306740, a neurokinin-1 receptor antagonist, reduces formalin-induced pain and spinal c-fos expression. A comparative study with morphine*
A. R. Castro, J. Schadrack, W. Zieglgänsberger and J. M. Castro-Lopes
- *Brain projections to the medullary dorsal reticular nucleus. A retrograde and anterograde tracing study in the rat*
A. R. Cobos, A. Almeida and D. Lima
- *Brain afferents to the caudal ventrolateral reticular formation: retrograde and anterograde tracing study*
A. R. Cobos, I. Tavares, A. Almeida and D. Lima

- *An adenosine A1 receptor antagonist induces a form of long-term depression which is not NMDA receptor-dependent*
A. de Mendonça and J. A. Ribeiro
- *Effect of oxidative stress in the uptake of GABA and glutamate in diabetic GK rat brain synaptosomes*
A. Duarte, M. S. Santos, R. Seça and C. Oliveira
- *Nigrostriatal tyrosine activity and genic expression in the developing rat brain: effect of neonatal exposure to methamphetamine*
J. Gomes-da-Silva, A. Pérez-Rosado, R. de Miguel, J. J. Fernández-Ruiz and M. A. Tavares
- *Mitochondrial respiratory chain activity during development of retina*
M. M. M. Grazina, M. S. M. Simões, F. M. P. Silva and C. R. Oliveira
- *Postnatal respiratory changes induced by retinoic acid treatment in mice embryos*
L. Guimarães, E. Dominguez del Toro and J. Champagnat

13:00 - Lunch

14:30 - Symposium

Vanilloid receptors: a new therapeutic target in Neuro-Urology

- *Therapeutic options for detrusor hyperreflexia*
Paulo Vale
- *The capsaicin receptor*
Istvan Nagy
- *Changes induced by intravesical administration of capsaicin or RTX in the experimental animal*
Karl Erik
- *Clinical applications of vanilloids*
Francisco Cruz

16:00 - Coffee break

16:30 - Oral Communications

- *Abnormalities of the glial limiting membrane play a central role in the pathogenesis of brain defects in Dreher^J mutant mice*
C. Costa and A. J. Copp
- *Firing patterns of spinal cord lamina I neurons: a whole cell patch-clamp study*
V. Galhardo, B. Safronov and D. Lima
- *The ontogeny of tyrosine hydroxylase expression in primary auditory neurons in the rat*
N. Trigueiros-Cunha, M. Eybalin, N. Renard and M. A. Ferreira
- *Effect of prenatal exposure to cocaine in the ontogeny of tyrosine hydroxylase expression in primary auditory neurons in the rat*
N. Trigueiros-Cunha, M. Eybalin, N. Renard and M. A. Ferreira

18:00 - Annual General Meeting of the SPN

20:00 - Dinner

Wednesday, 8

9:00 - Plenary lecture

Nociceptive transduction mechanisms and the evolution of chronic pain

Peter Reeh

10:00 - Coffee break

10:30 - Oral Communications

- *Diadenosine polyphosphates facilitate the evoked release of acetylcholine from rat hippocampal nerve terminals*
M. F. Pereira, R. A. Cunha and J. A. Ribeiro
- *Pertussis toxin attenuates kainite receptor-mediated inhibition of GABA release from rat hippocampal nerve terminals*
R. A. Cunha and J. A. Ribeiro
- *Adenosine modulates the action of VIP on synaptic transmission in the hippocampus*
D. Cunha Reis, A. M. Sebastião and J. A. Ribeiro
- *A_{2A}-Adenosine receptors activation regulates post-tetanic nicotinic facilitation of [³H] - ACH release from the rat motor nerve endings*
P. Correia-de-Sá, M. A. Timóteo and J. A. Ribeiro
- *Effect of blocking desensitization of AMPA receptors on the neurotoxicity and on the [Ca²⁺]_i changes induced by AMPA or kainite*
A. F. Ambrósio, A. P. Silva, J. O. Malva, A. P. Carvalho and C. M. Carvalho
- *TPEN increases presynaptic calcium signals from hippocampal mossy fiber pathway*
C. M. Matias, C. S. Pires, A. R. Roda and M. E. Quinta-Ferreira

12:00 -

Poster Session

- *Analysis of EEG ictal activity partial epilepsy using the LORETA method of source reconstruction*
A. J. R. Leal and A. A. Martins
- *Cyclothiazide and concanavalin A unmask the activity of AMPA and kainite receptors in rat hippocampal neurons - single cell Ca²⁺ imaging studies*
J. O. Malva, A. F. Ambrósio, A. P. Silva, C. M. Carvalho, C. R. Oliveira and A. P. Carvalho
- *Effect of thapsigargin on dendritic calcium enhancements in area CA1 of the hippocampus*

C. M. Matias, J. C. Dionísio, A. P. Alcântara and M. E. Quinta-Ferreira

- *Effects of A β ₂₅₋₃₅ peptide on the brain mitochondrial bioenergetics*

P. Moreira, M. S. Santos and C. Oliveira

- *Increased expression of metabotropic glutamate receptor 3 (mGluR3) mRNA in the cerebral cortex of monoarthritic rats*

F. L. Neto, J. Schadrack, S. Platzer, W. Zieglgänsberger, T. R. Tölle and J. M. Castro-Lopes

- *Potentiation of amyloid beta-peptide toxicity by zinc on a PC12 cell line*

C. Pereira, P. Moreira and C. R. Oliveira

- *Molecular and genetic analyses of DRG-11 knockout mice during development of nociceptive circuits in the dorsal horn of the spinal cord*

S. Rebelo, Z. F. Chen and D. Anderson

- *P₂ receptors facilitate acetylcholine release from rat motor nerve terminals: interaction with presynaptic nicotinic receptors*

A. I. Salgado, R. A. Cunha and J. A. Ribeiro

- *Differential effects of PKC activators on Ca²⁺ fluxes and catecholamine release from adrenal chromaffin cells*

C. M. Sena and L. M. Rosário

- *Excitotoxicity induced by AMPA and kainite receptors in cultured rat hippocampal neurons*

A. P. Silva, A. F. Ambrósio, J. O. Malva, A. P. Carvalho and C. M. Carvalho

- *Metabolic characterization of developing retina*

M. S. M. Simões, M. M. M. Grazina, M. Castro, F. M. P. Silva and C. R. Oliveira

- *Neurons at the caudal ventrolateral medulla are reciprocally connected with spinal lamina I cells: an ultrastructural study in the rat*

I. Tavares, A. Almeida and D. Lima

- *Aluminium-induced alterations in rat brain cortex synaptosomes membrane fluidity*

J. M. Cordeiro, V. S. Silva, C. R. Oliveira and P. P. Gonçalves

13:00 - Lunch

14:00 - Symposium

Ageing: from molecules to clinics

- *Mitochondrial abnormalities in oxidative stress in Alzheimer disease*

George Perry

- *Basic mechanisms of programmed cell death*

Zoltán Nagy

- *Degenerative dementia. The perspective of a clinician*

Carlos Garcia

16:00 - Coffee break

16:30 - Plenary lecture

When plasticity goes abnormal: mechanisms of epileptogenesis in the hippocampal formation

Fernando Lopes da Silva

17:30 - Closing session