

❖ 4ª Reunião da Sociedade Portuguesa de Neurociências

11 - 13 de Dezembro, 1997

Local: Hotel Meliá Confort, Coimbra

Comissão Científica:

- Catarina Resende de Oliveira, Presidente
- Luís Martinho do Rosário, Vice-presidente
- Alexandre Castro Caldas
- Ana Sebastião
- António Coimbra
- Arsélio Pato de Carvalho
- Fernando Lopes da Silva
- José Ferro
- Luís Cunha
- Manuel Paula Barbosa
- Serafim Guimarães
- Tice Macedo

Comissão Organizadora:

- Luís Martinho do Rosário, Presidente
- Catarina Resende de Oliveira, Vice-presidente
- Caetana Carvalho
- Margarida Caramona
- Carlos Duarte
- Emília Duarte
- Ângelo Tomé
- Cristina Rego

Programa:

Thursday, 11

17:00 - Registration

19:00 - 19:30 - Opening Session

19:30 - 21:00 - Reception Dinner

21:00 - 22:30 - Debate:

Transgenic animals in neuroscience

Moderator: Alexandre Ribeiro

Speakers: Alcino J. Silva and Fernando Lopes da Silva

Friday, 12

09:00 - 10:00 - Plenary Lecture

Cellular bases of vertebrate locomotion - intrinsic function of a neuronal network

Sten Grillner

10:00 - 11:00 - Symposium (1st part)

New approaches and techniques in neurosciences

Coordinator: Carlos B. Duarte

Co-chairman: José M. Castro-Lopes

Real-time microelectrochemical measurements of neurosecretion events

Jonathan A. Stamford

Lithium uptake and handling by nerve cells as assessed by NMR spectroscopy

Margarida M. C. Castro et al.

11:00 - 11:30 - Coffee break

11:30 - 12:20 - Symposium (2nd part)

New approaches and techniques in neurosciences

Bioluminescence imaging of neuronal biochemistry

Bo Belhage et al.

The dissector and nucleator applied to the suprachiasmatic nucleus

Manuel M. Paula-Barbosa

12:30 - 14:30 - Poster session and lunch

12:30 - 13:00 - Join the Company

Microdialysis applications

Craig Marvin

13:45 - 14:30 - Meet the Expert Session

Basic concepts in experimental electrophysiology - a tutorial for beginning experimentalists

Pedro L. Fernandes

14:30 - 16:00 - Oral Communications

Chairwoman: M. Dulce Madeira

Co-Chairwoman: M. Margarida Caramona

Reciprocal connections between neurons of the caudal ventrolateral medulla and pontine A5 noradrenergic cells that Project to the spinal dorsal horn

Isaura F. Tavares et al.

Intravesical capsaicin or resiniferatoxin temporarily decrease sensory peptides in the rat urinary bladder

António Avelino et al.

Behavioral evidence for neuropathological changes induced by low-protein diet and food deprivation in adult rats

José Paulo V. Andrade et al.

Mitochondrial respiratory chain function and APO-E genotype in Huntington Disease (HD)

M. Manuela M. Grazina et al.

Encoding and retrieving verbal information evidence by PET

Karl M. Petersson et al.

Right/left hemispheric contribution for word repetition is influenced by literacy: a PET activation study

Alexandre Castro-Caldas et al.

16:00 - 16:30 - Coffee break

16:30 - 18:30 - Symposium

Cell biology of neuronal plasticity

Coordinator: Ana Sebastião

Co-Chairman: Edgar Cruz e Silva

Neurotransmission by ATP in cerebellum: receptors and signalling mechanisms

Enrique Castro et al.

Adaptation of neuromuscular transmission to the pattern of nerve stimulation: key role of adenosine

Paulo Correia de Sá et al.

Nitric oxide: its role in modulating glutamate and GABA release in hippocampal nerve terminals

Caetana Carvalho et al.

Changes of GABA binding in the spinal cord of monoarthritic or neurectomized rats

José M. Castro-Lopes

18:30 - 19:30 - SPN General Meeting

20:30 - Party Dinner

Saturday, 13

09:00 - 10:00 - Plenary Lecture

The neurotransmitter role of diadenosine polyphosphates

Maria Teresa Miras-Portugal

10:00 - 10:30 - Coffee break

10:30 - 12:30 - Symposium

Neural networks and brain function

Coordinator: António Coimbra

Co-Chairman: Rodrigo A. Cunha

Dynamics of EEG/MEG signals of brain systems and their functional significance

Fernando Lopes da Silva

Patterns of neuronal activity and visual perception

Miguel Castelo Branco et al.

Independent component analysis and related techniques

Luís Borges de Almeida

Organization of nociceptive neuronal circuits: a structural basis for dynamic pain processing

Deolinda Lima

12:30 - 14:30 - Poster Session and lunch

13:45 - 14:30 - Meet the Expert Session

Chairman: João J. Pedroso de Lima

The unavoidable link between SPECT and PET neuroimaging

Maria João S. Ribeiro

14:30 - 16:00 - Oral Communications

Chairman: João O. Malva

Co-Chairwoman: Ana I. M. Santos

Phosphorylation of AMPA-type glutamate receptor subunit GluR4 in retinal amacrine cells in culture

Ana Luísa Carvalho et al.

Voltage-sensitive Ca^{2+} channels are specifically inhibited by PKC- ϵ in adrenal chromaffin cells

Cristina M. Sena et al.

Facilitation of GABA release from rat hippocampal synaptosomes by arachidonic acid

Rodrigo A. Cunha et al.

Chronic administration of morphine: effects on catecholamines and 5-HT content in the brain and plasma of the rat

Sandra Arede et al.

Glutamate inhibits the respiratory chain in cultured retinal cells

Ana Cristina C. Rego et al.

GABA-A and GABA-B mediated inhibition on slices of the CA1 area of the rat hippocampus after kindling epileptogenesis

Alberto J. R. Leal

16:00 - 16:30 - Coffee break

16:30 - 18:30 - Symposium

Neurodegeneration and neuroregeneration

Coordinator: Arsélio Pato de Carvalho

Co-Chairman: Alexandre Castro-Caldas

Mitochondrial abnormalities in neurodegeneration

J. Mark Cooper et al.

Depression and recovery of synaptic transmission upon hypoxia and reoxygenation

Alexandre Mendonça

B-amyloid toxicity in neurodegeneration

Cláudia F. Pereira et al.

Cognitive recovery following brain damage

Isabel P. Martins

18:30 - 19:00 - Closing Session