

# SAN

## Sociedad Argentina de Investigación en Neurociencias

### Workshop

*“Neuronal Communication:  
From structure to physiology”*

December 3-5, 2008

#### ORGANIZING COMMITTEE:

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#### PLACE:

Instituto de Investigaciones Bioquímicas de Bahía Blanca (INIBIBB)  
Camino La Carrindanga Km 7- 8000, Bahía Blanca. Argentina.

**December 3<sup>rd</sup> (Wed)**

**Synaptic receptors: From structure to function**

**10: 00 Welcome Breakfast**

10:30 Introduction by the Chairman- **Daniel Calvo**

10:40-11:10 **Sarah Lummis**  
University of Cambridge, UK.

***"5-HT<sub>3</sub> receptors: From structure to function".***

11:20-11:50 **Joe Henry Steinbach**  
Washington University School of Medicine

***How neurosteroids potentiate GABA<sub>A</sub> receptors***

12:00-12:30 **Cecilia Bouzat**  
INIBIBB-CONICET, Bahía Blanca, Argentina.

***"Structural bases of activation and desensitization of Cys-loop receptors".***

**13:00 Lunch**

**14:30 Posters (56)**

**Synaptic physiology in the auditory system**

16:30 Introduction by the Chairman- **Luis Politi**

16:40-17:10 **Paul Fuchs**  
Johns Hopkins University School of Medicine, Baltimore MD, USA.

***"Cochlear synapses: gatekeepers for auditory signalling".***

17:20-17:50 **Ana Belén Elgoyhen**  
INGEBI-CONICET, Buenos Aires, Argentina.

***"Efferent synapses to cochlear hair cells".***

**18: Coffee break**

**Neuronal communication and pathologies**

18:30 Introduction by the Chairman- **Daniel Masco**

18:40-19:10 **Lucas Pozzo-Miller**  
University of Alabama Birmingham, USA.

***"BDNF actions on both sides of synapses: TRPC channels, MeCP2 and the cellular neuropathology of Rett Syndrome".***

19:20-19:50 **Guillermo Altenberg**  
Texas Tech University Health Sciences Center, School of Medicine  
Lubbock, USA.

***"Molecular mechanism of activation of gap-junctional hemichannels in astrocytes during ischemia".***

20:30 Dinner

**December 4th (Thu)**

**Neuronal ion channels and receptors**

9:00 Introduction by the Chairman- **Marta Antonelli**

9:10-9:40 **Neil Millar**  
University College London, UK.

***"Pharmacological characterisation of nicotinic acetylcholine receptors and the molecular chaperone RIC-3".***

9:50-10:20 **Luis Aguayo**  
Universidad de Concepción, Chile.

***"Intracellular mechanisms for the regulation of activity of glycine receptors".***

**10:30-10:50 Coffee break**

**11:00-11:30 Roberto Malinow**  
University of California San Diego, USA.

***"Synaptic plasticity and postsynaptic receptor trafficking".***

**11:40-12:10 Kerry Delaney**  
University of Victoria, Canada

***"Calcium channel location within the active zone: effects on release and facilitation "***

***Ion channels and receptors in muscle cells***

**12:20 Introduction by the Chairman- Fernando Marengo**

**12:30-13:00 Ariel Escobar**  
University of California Merced, USA.

***"Ryanodine Receptors and the control of cell excitability".***

**13:10-13:40 James Dilger**  
Stony Brook University, NY, USA.

***" Simulating the action of muscle relaxants at the neuromuscular junction".***

**13:50 Lunch**

15:30 **Postdocs and advanced doctoral students talks.**

15:30-15:45

**Ana María Rossi-**

Queen's College, Cambridge University, UK.

**“Analysis of IP3 receptor activation using novel partial agonists”**

15:55-16:10

**Sheila Ons**

Centro regional de Estudios Genómicos. Universidad Nacional de La Plata. Argentina

**“Proteomics of neuropeptides in insect *Rhodnius prolixus*, vector of chagas disease”**

16:20-16:35

**Lucas A. Mongiat**

Fundación Instituto Leloir. Argentina

**“Neuronal firing stability during adult neurogenesis”**

16:45-17:00

**Pablo Pomata**

Facultad de Medicina, Universidad de Buenos Aires, Argentina.

**“NMDA receptor gating of medium spiny neuron firing during up states in vivo”**

17:10 POSTERS and coffee break

**19:00-20.30 Asamblea SAN**

20.45 bus to dinner

**21:30 Dinner**

**December 5<sup>th</sup> (Fri)**

**Neuronal communication in the hippocampus**

8.30 bus

9:00 Introduction by the Chairman- **Diana Jerusalinsky**

9:10-9:40 **Antonia Marín-Burgín**  
University of California San Diego, USA.

***"Cortical inhibitory circuits in gain control".***

9:50-10:20 **Alejandro Schinder**  
Fundación Instituto Leloir-CONICET, Buenos Aires, Argentina.

***"Neurogenesis and synaptogenesis in the adult hippocampus".***

**10:30 Coffee break**

***Using invertebrates to study neural physiology and pathologies***

11:00 Introduction by the Chairman- **María Eugenia Pedreira**

11:10-11:40 **Lidia Szczupak**  
IFIBYNE-CONICET-UBA, Buenos Aires, Argentina.

***"Chemical and electrical synapses in motor control".***

11:50-12:20 **David Sattelle**  
MRC-Oxford University, UK.

***"Invertebrate models for the study of human nervous system and neuromuscular disorders".***

12.30 closing

13.00 bus to hotel