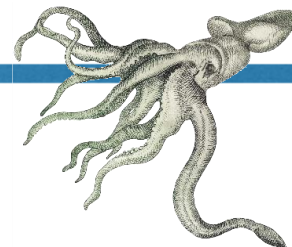


# For **squid** lovers only



CENTRO INTERDISCIPLINARIO DE  
Neurociencia de  
Valparaíso 

## International Symposia “For Squid Lovers Only” in Honor to the 70<sup>th</sup> Birthday of Francisco Bezanilla

Organized by the  
Centro Interdisciplinario de Neurociencia de Valparaíso,  
Univesidad de Valparaíso

Montemar, Chile, September 25-27, 2014

### *Thursday September 25 -Morning*

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**9:00 – 9:30AM - Welcome Ramon Latorre**

#### *Plenary Lecture*

**9:30 -10:30 AM - Clay Armstrong** - Potassium Channels: the origin of life and later developments

#### *Symposium I. Ion Pumps and Selectivity in Channels*

**10:30 AM – 11:00 AM - Pablo Artigas** -To leak or not to leak, characteristics of inward proton transport by the Na/K pump

**11:00 AM – 11:30 AM - Juan Pablo Castillo** - Revisiting the squid giant axon: charge translocation in the Na<sup>+</sup>/K<sup>+</sup> ATPase

#### *11:30 AM -12:00 AM - Coffee Break*

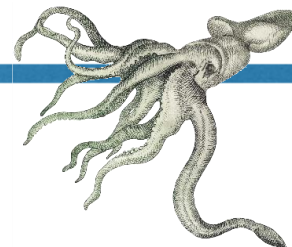
**12:00 -12:30 PM- Dominique Gagnon-** Physiological relevance of Na/K pump isoform-specific voltage dependence

**12:30 PM- 1:00 PM - Bob Eisenberg** - Selectivity of calcium channels in many solutions: a physical model with three fixed parameters

#### *1:00 PM– 3:00 PM - Lunch*



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## *Symposium II. Sensors, gates and Modeling*

**3:00PM - 3:30 PM - Baron Chanda** - Design of a temperature-sensitive ion channel

**3:30- 4:00 PM - Osvaldo Alvarez** - Temperature and voltage coupling to TRPM8 channel opening

**4:00 -4:30 PM – Alan Neely**- Can we get energetic from a global fit of a model? A BK channel example

**4:30PM - 5:00 PM – Coffee Break**

**5:00 -5:30 PM - Miguel Holmgren** - Quasi-specific access of the potassium channel inactivation gate

**5:30 PM - 6:00 PM - Riccardo Olcese** - Two voltage sensors open a human Ca channel

**6:00 – 6:30 PM - Ana María Correa** - Exploring structural changes in voltage-gated proteins using LRET

*Friday September 26*

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## **Plenary Lecture**

**9:00 AM- 10:00 - Eduardo Perozo** - Cephalopods, bacteria and sea squirts: voltage sensing domains and their mechanisms

## *Symposium III. From Ion Channels to Synapsis*

**10:00 AM - 10:30 AM - Peter Pohl** - Water transport through potassium channels

**10:30 AM – 11:00 AM - Rikard Blunck** - Lipid regulation of K<sup>+</sup> channels

**11:30 AM – 12:00 – AM - Ligia Toro** - MitoBK in the heart

**11:00 AM -11:30 AM - Coffee Break**

**12:00 AM – 12:30 AM - Brian Salzberg** - Intrinsic optical changes in mammalian nerve terminals

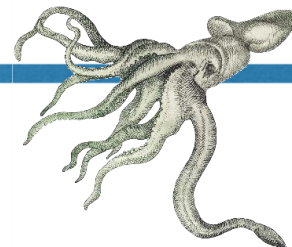
**12:30 PM – 1:00 PM - Alain Marty** - From single channel to single synapse, que viva la biofísica!

**1:00 PM– 3:00 PM - Lunch**

*Free afternoon*



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*Saturday, September 27*

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## **Plenary Lecture**

**9:00 AM – 10:00 AM - Enrico Stefani** - New directions in super-resolution microscopy.

## ***Symposium IV. From Synapsis to Plants***

**10:00 AM- 10:30AM - Isabel Llano** - Interactions between excitatory and "inhibitory" synapses in the cerebellar cortex in vivo

**10:30 AM - 11:00 AM- Cecilia Vergara** - Copper as a neuromodulator: evidences in the hippocampus

*11:00 AM -11:30 AM - Coffee Break*

**11:30 AM – 12:00 M – Cecilia Hidalgo** – Calcium release and ROS play key roles in hippocampal synaptic plasticity

**12:00 M – 12:30 PM – Jorge Contreras** - Regulation and gating of connexin hemichannels

**12:30 PM – 1:00 PM - Carlo Caputo** – Excitation-contraction coupling: Experiments with Pancho

**1:00 – 1:30 - Magdalena Bezanilla** - Myosin mediates crosstalk between the actin and microtubule cytoskeletons

**1:30 PM – 3:00 PM – Lunch and Farewell**

