



Centro Interdisciplinario de
Neurociencia de Valparaíso



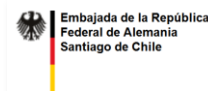
Symposia Neuroscience Meets Valparaíso

Centro Interdisciplinario de Neurociencia de Valparaíso

PROGRAMME

November
27–28, 2012

Parque Cultural de Valparaíso
Valparaíso, Chile





Centro Interdisciplinario de
Neurociencia de Valparaíso



Universidad
de Valparaíso
CHILE

Symposia

Neuroscience Meets Valparaíso

Tuesday, November 27

Location *Parque Cultural Valparaíso – Main Auditorium*
MORNING

Opening Remarks: Ramón Latorre

Symposium I - Molecular Sensors

- 9:00 - 9:30 **Carlos González** - S4 segment in Hv channels. Voltage sensor or permeation pathway?..
- 9:30 - 10:00 **Danilo González-Nilo**- *Molecular Simulation of Non-equilibrium Systems: The dance of ions across the membrane.*
- 10:00 - 10:30 **Coffee break**
- 10:30 - 11:00 **Francisco Bezanilla** - *Molecular determinants of voltage sensor kinetics.*
- 11:30 - 12:00 **Miguel Holmgren** - *Access constraints and binding energetics of a potassium channel inactivation gate.*
- 11:30 - 12:00 **Tomás Pérez-Acle** - *Computational biology: Multi-scale modeling of complex biological systems.*
- 12:00 - 13:30 **Lunch**



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AFTERNOON

Symposium II – Gap junctions and Hemichannels: from Molecular Structure to Behavior.

- 13:30 - 14:00 **Juan Carlos Sáez** - *Hemichannels in neurodegeneration*
- 14:00 - 14:30 **Klaus Willecke** - *Regulation of myelination by gap junctional coupling between glia cells.*
- 14:30 - 15:00 **Coffee break**
- 15:00 - 15:30 **Oliver Schmachtenberg** - *Pannexin1-mediated coupling in glial cells and an oligodendrogloma cell line.*
- 15:30 - 16:00 **Jimmy Stehberg** - *Astroglial transmitters released via Cx43 hemichannels are necessary for fear memory consolidation*
- 16:00 - 16:30 **Michael V.L. Bennett** - *Cytosolic magnesium bidirectionally modulates Cx36 gap junctions.*

Location *Facultad de Derecho – Universidad de Valparaíso*

19:00 – 20:30 **The University of Valparaíso grants the Degree of Doctor Honoris Causa to Professor Erwin Neher.**



Wednesday, November 28

Location *Parque Cultural Valparaíso – Main Auditorium*
MORNING

Symposium III – Synapsis and Neurotransmission: Vesicle Kiss and Turn Over. Synapses are adaptable but can get old.

- 9:00 - 9:30 **Ana M. Cárdenas** - *Molecular mechanisms that control the quantal release: role of dynamin-2 and the actin network.*
- 9:30 - 10:00 **Erwin Neher** - *What happens before and after exocytosis: Synapses need rapid turnover of vesicles and release sites.*
- 10:00 -10:30 **Coffee break**
- 10:30 -11:00 **Andrés Chávez** - *Endocannabinoid signaling and synaptic function: New Mechanism and Synaptic rules*
- 11:00 - 11:30 **Jeffrey Diamond** - *Specialized synapses process visual information in the retina.*
- 11:30 -12:00 **Adrián Palacios** - *Neural plasticity during aging in Octodon degus. A neurodegenerative model.*
- 12:00 - 13:30 **Lunch**



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Symposium IV - Genetic Control of Development and Behavior

- 13:30 - 14:00 **Kathryn Anderson** - *Cilia and centrosomes in mouse neural development*
- 14:00 - 14:30 **Timothy Bestor** - *TRIM28 and the repression of methylated promoters*
- 14:30 - 15:00 **Coffee break**
- 15:00 - 15:30 **Ralph J. Greenspan** - *Invertebrate and vertebrate brains use the same functional strategies.*
- 15:30 - 16:00 **John Ewer** - *Endocrine and circadian control of Drosophila behavior.*
- 16:00 - 16:30 **Kathleen Whitlock** - *Analysis of neuronal precursors in the olfactory sensory system of zebrafish.*
- 17:00 – 18:00 Annual meeting Sociedad de Neurociencia de Chile
- 17:00 – 19:00 **Student posters** - *in a collegial atmosphere accompanied with cheese and wine.*



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List of Participants

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