X Annual Meeting of the Chilean Society for Neuroscience

Hotel Villa del Rio
VALDIVIA, CHILE

October 1-4, 2014.
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<tr>
<td>14:00-17:15</td>
<td>REGISTRATION</td>
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<td>9:00-11:00</td>
<td>Symposium 1: Computational Neuroscience: vision, cold and more Chair: Patricio Orio</td>
<td>9:00-11:00</td>
<td>Symposium 3: The avian brain from a broad and comparative perspective Chairs: Gonzalo Marín Symposium 4: Channels and transporters as key modulators of neuronal excitability Chairs: Patricio Rojas, Magdalena Sanhueza</td>
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<td>11:00-11:30</td>
<td>Coffee break</td>
<td>11:00-11:30</td>
<td>PLENARY LECTURE Isabel Llano Imaging cerebellar activity in vivo with genetically-encoded calcium-dependent proteins Host: Magdalena Sanhueza</td>
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<td>11:30-12:30</td>
<td>PLENARY LECTURE Alain Marty Deciphering synaptic signaling at single site level Host: Alan Neely</td>
<td>11:30-12:30</td>
<td>LUNCH</td>
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<td>14:30-16:30</td>
<td>SPECIAL YOUNG NEUROSCIENTISTS SYMPOSIUM Chair: Juan Bacigalupo</td>
<td>14:30-16:30</td>
<td>Oral presentations I and II</td>
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<td>16:30-18:30</td>
<td>Coffee and Posters I</td>
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<td>Coffee break and Posters II</td>
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<td>17:15-18:30</td>
<td>WELCOME and OPENING LECTURE John Hildebrand Explorations of a ‘simple’ olfactory system Host: Juan Bacigalupo</td>
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<td>18:30-20:30</td>
<td>ROUND TABLE Ciencia, Sociedad y Política Chair: Adrián Palacios</td>
<td>18:30-19:30</td>
<td>PLENARY LECTURE Edward Tehovnik Myth and reality behind AVATAR: brain-machine interfaces Host: Jorge Mpodozis</td>
<td>18:30-19:30</td>
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<td>20:30</td>
<td>WELCOME COCKTAIL</td>
<td>19:30-20:15</td>
<td>ASAMBLEA DE SOCIOS</td>
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<td>21:00</td>
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Wednesday, October 1st

14:00-17:15  REGISTRATION

17:15-17:30  WELCOME

17:30-18:30  OPENING LECTURE
  John Hildebrand, University of Arizona
  Explorations of a ‘Simple’ Olfactory System.
  Host: Juan Bacigalupo

18:30-20:30  MESA REDONDA:
  Ciencia, Sociedad y Política
  Chair: Adrián Palacios
  Isabel Llano, University Rene Descartes, Paris
  Gonzalo Argandoña, Periodista Científico
  Alexia Núñez, University of Colorado Denver, Coordinadora Nexus
  Manuel Malmierca, Instituto de Neurociencia de Castilla, España

20:30  WELCOME COCKTAIL

Thursday, October 2nd

9:00-11:00  SYMPOSIUM 1:  Computational Neuroscience: Vision, cold and more
  Chair: Patricio Orio
  9:00-9:30  Hans Albert Braun, University of Marburg, Germany. From cold currents to cold receptor activity patterns: A computational study based on experimental data
  9:30-10:00  Patricio Orio, CINV, Universidad de Valparaíso, Chile. Models of dynamic detection of cold in mammals
  10:00-10:30  Guillaume S. Masson, Marseille, France. Speed processing in non-human primate visual system
  10:30-11:00  María-José Escobar, Universidad Técnica Federico Santa María, Chile. Motion and speed processing in the retina

9:00-11:00  SYMPOSIUM 2:  Mechanisms of memory formation and their alterations
  Chairs: Francisco Aboitiz, Pablo Fuentealba
  9:00-9:30  Pedro Maldonado, Universidad de Chile. The memory of motor learning: the whole is more than the sum of the parts
  9:30-10:00  Conrado Bosman, University of Amsterdam, The Netherlands. Neuronal Synchronization and Attentional Stimulus Selection in Visual Cortex
  10:00-10:30  Pablo Billeke, Universidad del Desarrollo, Chile. Role of the cortical theta and alpha oscillations during a social interaction
  10:30-11:00  José Luis Valdés, Universidad de Chile. Brain histamine and hippocampal neuronal dynamics during learning and memory

11:00-11:30  COFFEE BREAK
PLENARY LECTURE

Alain Marty, Université Rene Descartes, Paris
Deciphering synaptic signaling at single site level
Host: Alan Neely

LUNCH

Special Young Neuroscientists Symposium
Chair: Juan Bacigalupo

Verónica de la Fuente, Universidad de Buenos Aires, Argentina.
Negative regulators for memory formation and reprocessing after retrieval

Claudio Villalobos, ICBM, Universidad de Chile.
Simultaneous recording of left and right hippocampus during slow-wave sleep

Zila Martínez, Instituto Politécnico Nacional, México
Na⁺-Dependent Glutamate Transporters as Signal Transduction Molecules in Glial Cells

Carlos Oliva, Chile, ICBM. Universidad de Chile.
Hindsight regulates photoreceptor axon targeting through transcriptional control of jitterbug/Filamin and multiple genes involved in axon guidance in Drosophila

COFFEE BREAK AND POSTERS I

PLENARY LECTURE

Edward Tehovnik, Federal do Rio Grande do Norte
Myth and reality behind AVATAR: Brain-machine interfaces
Host: Jorge Mpodozis

Friday, October 3rd

SYMPOSIUM 3: The Avian Brain from a broad and comparative perspective
Chair: Gonzalo Marín

Jorge Mpodozis, Universidad de Chile. Birds do have a brain: columns and layers in the avian pallium

Douglas Wylie, Department of Psychology, University of Alberta, Canada. Principles of cerebellar organization: what we have learned from birds

Andrew Iwaniuk, University of Lethbridge, Canada. Ecology, phylogeny and the evolution of the avian brain

Gonzalo Marín, Universidad de Chile. The avian tectofugal system, a pathway for understanding vision and attention

SYMPOSIUM 4: Channels and transporters as key modulators of neuronal excitability
Chairs: Patricio Rojas, Magdalena Sanhueza.

Steven Mennerick. Washington University, USA. Novel positive allosteric modulators of NMDA receptors in health and dysfunction.

Magdalena Sanhueza, Universidad de Chile. Sub- and supra-threshold dynamics of resonant neurons in the olfactory amygdala.

Maite Castro, Universidad Austral de Chile. Nutrient transporters feeding starving synapses.

Patricio Rojas, University of Santiago de Chile. Role of Chloride transporter NKCC1 in neuropsychiatry.
11:00-11:30  COFFEE BREAK

11:30-12:30  PLENARY LECTURE
Isabel Llano, Université Rene Descartes, Paris
*Imaging cerebellar activity in vivo with genetically-encoded calcium-dependent proteins*
Host: Magdalena Sanhueza

12:30-14.30  LUNCH

14:30-16:30  ORAL PRESENTATIONS I AND II

17:00-18:30  COFFEE BREAK AND POSTERS II

18:30-19:30  SOCIEDAD CHILENA DE NEUROCIENCIA AWARD LECTURE
Luis Robles, ICBM, Universidad de Chile
*Auditory perception: Cochlear mechanisms and modulation by attentional processes.*
Host: Paul Délano

19:30-20:15  ASAMBLEA DE SOCIOS

21:00  DINNER

**Saturday, October 4**

9:00-11:00  SYMPOSIUM 5:  *Exploration of brain dynamics and human cognition by intracranial EEG*
Chair: Tomás Ossandón

9:00-9:30  Tristán Bekinschtein, U. Cambridge, UK. *Conscience, intracranial recordings and clinical applications*

9:30-10:00  Agustín Ibañez, Universidad Diego Portáles-Ineco, Chile. *Neurocognitive evidence for neuropsychiatric models by means of intracranial recordings in humans*

10:00-10:30  Carlos Hamamé, CNRS Marseille, France. *Towards an ecological neuroscience: natural vision, language and imagination.*

10:30-11:00  Tomás Ossandón, P. Universidad Católica, Chile. *Control, training and alterations of attention from a novel view*

9:00-11:00  SYMPOSIUM 6:  *Genetics and Development of the Nervous System*
Chair: Kate Whitlock.

9:00-9:30  Claudio Araya, Universidad Austral de Chile. *Making Brains: in vivo imaging analysis in the developing zebrafish embryo*

9:30-10:00  John Ewer, ICNV, Universidad de Valparaiso, Chile. *Genetic analysis of neuroendocrine control of developmental behaviors*

10:00-10:30  Ralph Greenspan, University of California San Diego, USA. *Developmental Genes and Drosophila Behavior*

10:30-11:00  Kathleen Whitlock, ICNV, Universidad de Valparaíso, Chile. *Analysis of genes controlling peripheral nervous system development*

11:00-11:15  CLOSING REMARKS