



XIII Annual Meeting

Sociedad Chilena de Neurociencia
October 1-3, 2017
Hotel de la Isla. Castro - Chiloé



Message from the President

Welcome to the XIII annual meeting of the Sociedad Chilena de Neurociencia (SCN) in Castro, Chiloe, a place rich in folklore, architecture and biodiversity.

Since our origins, one of the aims of the SCN has been to bring science to society; this is the reason why we have organized outreach activities such as round tables and scientific talks at primary and secondary schools. Neuroscience is not only about research in our laboratories at molecular, cellular or cognitive aspects in normal and pathological conditions, also it has implications in our society: scientific help was needed in the recent episode of red tide in Chiloe which severely affect human and animal health as well as the local economy.

Red tide is caused by a bloom in dinoflagelates that produce toxins targeting the nervous system which can cause respiratory paralysis. Research on these gave the fundamental basis to develop new drugs to treat medical conditions as chronic pain, what would be unexpected 20 years ago.

This example reminds us that scientific knowledge might have profound implications to society.

For this annual meeting we have 10 symposiums, three plenary conferences, two oral communications and two poster session covering from molecular to cognitive aspects of neuroscience. One of these events is the Young Neuroscientist Symposium, an instance to potentiate the early career in science.

In this occasion our Society distinguishes the scientific work of Dr. Humberto Maturana, who has contributed into neuroscience with classical studies that have been followed for many scientist around the world. He has been a truly inspiration for new generations of researchers.

On behalf of the SCN Directory, organizers of this meeting, I would like to welcome and invite you to enjoy the meeting.

Patricio Rojas, PhD
President Sociedad
Chilena de Neurociencia
October, 2017



XIII Annual Meeting of the Chilean Society for Neuroscience

1 TO 3 OCTOBER 2017
CASTRO, X Región, Chile.
Hotel de la Isla Castro-Chiloe

Program

Sunday, October 1st

- ⌚ 14:30-17:00 REGISTRATION
- ⌚ 17:00-19:00 **SYMPOSIUM 1: Brain connectivity: Networks to behavior.**
Chair: Wael-El Deredy.
Room: Abtao
- ⌚ 17:00-17:30 **Properties of food representation and recognition.**
Rumiati R¹, ¹Cognitive Neuroscience, Neuroscience, SISSA | Scuola Internazionale Superiore di Studi Avanzati.
- ⌚ 17:30-18:00 **Closed loop brain training: functional and structural connectivity changes due to learned brain self-regulation.**
Sitaram R¹, ¹Institute for Biological and Medical Engineering, Medicine, Biology and Engineering, Pontificia Universidad Católica de Chile.
- ⌚ 18:00-18:30 **Analyzing the influence of feedback, reward and instructions on brain self-regulation through dynamic mathematical modeling.**
Bossonney K¹, Sitaram R¹, Sepulveda P¹, **Rodríguez-Fernández M¹**, ¹Institute for Biological and Medical Engineering, Schools of Engineering, Medicine and Biological Sciences, Pontificia Universidad Católica de Chile.
- ⌚ 18:30-19:00 **Reduced Amygdala-Fusiform connectivity and maternal neglect.**
EL-DEREDY W¹, Leon I¹, Rodrigo M J¹, ¹Ingenieria Biomedica, Ingenieria, Universidad de Valparaiso.



- ⌚ 17:00-19:00 SYMPOSIUM 2: **Glial cell-neuron Crosstalk in health and disease.**
Chair: Rommy von Bernhardi
Room: Inio
- ⌚ 17:00-17:30 **Multipronged control of astrocytic energy metabolism by neurons and the paradox of aerobic glycolysis.**
Barros L F¹, San Martin A¹, Sotelo-Hitschfeld T¹, Lerchundi R¹, Fernandez-Moncada I^{1,2}, Baeza-Lehnert F^{1,2}, ¹Biología Centro de Estudios Científicos.²Escuela de Postgrado, Ciencias, Universidad Austral de Chile.
- ⌚ 17:30-18:00 **Astrocytic D-serine is a new player in the chemosensory control of breathing.**
Eugenín L. J. Lab. Sistemas Neurales, Facultad de Química y Biología, Universidad de Santiago de Chile
- ⌚ 18:00-18:30 **Neuron-glia communication by extracellular vesicles during regenerative programs.**
Court F¹, ¹Center for Integrative Biology, Facultad de Ciencias, Universidad Mayor.
- ⌚ 18:30-19:00 **Glial activation goes wrong as we age.**
Von Bernhardi R¹, ¹Neurology, Medicine, Pontificia Universidad Católica de Chile.
- ⌚ 19:00-20:00 **WELCOME**
Dr. Patricio Rojas, Presidente Sociedad Chilena de Neurociencia
Room: INIO
- OPENING LECTURE**
Host: Jaime Eugenin
- The Dynamic Basis of Rhythm Generation One Breath at a Time.**
Ramirez J¹, ¹Neurological Surgery, Medicine, University of Washington.

Poster Session I

Coordinators: Gonzalo Terreros
Carolina Oliva
Tomas Ossandon
Florencia Tevy

Room: Cucao

1) Analysis of the behavioral response to odorants in PINK1 -/- zebrafish larvae.

Allende C^{1,3,2}, Borgonovo J^{1,2,3}, Laliena A^{1,3,2}, Bandmann O⁴, Concha M^{1,3,2}, ¹Laboratory of Experimental Ontogeny, Faculty of Medicine, University of Chile.²Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile.³Center for Geroscience, Brain Health and Metabolism, Faculty of Medicine, University of Chile.⁴Institute for Translational Neuroscience University of Sheffield.

3) Intranasal cotinine improves memory loss, depressive-like behavior, and GFAP+ cells loss induced by restraint stress in mice.

Alvarez Ricartes N¹, Perez Urrutia N¹, Oliveros Matus P¹, Echeverría Morán F1, Iarkov A¹, Echeverría Morán V¹, ¹Tecnología Médica, Ciencias de la Salud, Universidad San Sebastián.

5) Effect of musical expertise on the efficiency of attentional networks.

Barraza P¹, Medina D2, ¹Centro de Investigación Avanzada en Educación (CIAE) Universidad De Chile.²Departamento de Música, Facultad de Artes y Educación Física, Universidad Metropolitana De Ciencias De La Educación. (Sponsored by This Research Was Supported By The Basal Funds For Centers Of Excellence, Project FB 0003 From The Associative Research Program Of CONICYT.)

7) Effect of chronic stress on prefrontal-hippocampal functional connectivity during acquisition of spatial reference memory.

Chacana-Véliz L^{1,2}, Negrón-Oyarzo I², Dib T², ¹Fonoaudiología, Salud, Universidad Santo Tomás.²Instituto de Fisiología , Facultad de Ciencias, Universidad de Valparaíso.

9) Relations between explicit and implicit measurements of anxiety during an auditory working memory task in the elderly.

Espinoza M¹, Morales R¹, Delgado C^{1,2}, ¹Departamento de Neurociencia, Facultad de Medicina, Universidad De Chile.²Neurologia y Neurociencia, HCUCH, Universidad De Chile. (Sponsored by Funded By Anillo ACT 1403, Beca Puelma.)

11) Deep TMS for the treatment of Negative symptoms in Schizophrenia: not only an antidepressant effect

García M¹, Linsambarth S¹, Stehberg J¹, ¹Laboratorio de Neurobiología Universidad Andrés Bello. (Sponsored by FONDECYT 1160986)

13) The role of sensory motor demand and immersion in attentional skills acquired by video gamers.

Hernández A¹, Larraguibel C¹, Lam G¹, Vergara R¹, Lorca E¹, Moenne C¹, Fernández R¹, ¹Neurociencias, Medicina, Universidad de Chile. (Sponsored by FONDECYT Postdoctorado 3160403 A R.V.)

15) Increased power of high-gamma oscillations in the rat nucleus accumbens during spontaneous social interaction.

Iturra-Mena A M1, Arriagada-Solimano M1, Dagnino-Subiabre A1, 1Laboratory of Stress Neurobiology, Center for Neurobiology and Brain Plasticity, Institute of Physiology, Faculty of Sciences, Universidad de Valparaíso.

17) The amplitude of otoacoustic emissions and olivocochlear reflex strength are associated with cognitive performance in elderly people.

Leiva A¹, Ipinza M¹, Marcenaro B¹, Elespuru K¹, Martínez M², Soto Á², Délano P H^{1,3}, Delgado C^{1,2}, ¹Neuroscience Department, Faculty of Medicine, Universidad de Chile.² Neurology and Neurosurgery Department Clinical Hospital of the University of Chile.³Otolaryngology Department Clinical Hospital of the University of Chile.

19) Virtual social rejection in persons with attention-deficit hyperactivity disorder.

Malbec M¹, Oyarzo P¹, Moenne-Loccoz C², López V¹, ¹Psicología, Ciencias Sociales, Pontificia Universidad Católica de Chile.²Ciencias de la Computación, Ingeniería, Pontificia Universidad Católica de Chile.

21) Visual saliency and free exploration in people affected with schizophrenia.

Mayol-Troncoso R^{1,2,3}, Gaspar P^{1,2,3}, Maldonado P^{1,2},
¹Biomedical Neuroscience Institute (BNI) Universidad de Chile.²Departamento de Neurociencias, Facultad de Medicina, Universidad de Chile.³Clinica Psiquiatrica Universitaria Universidad de Chile.

23) Beta oscillations during visual exploratory behavior are timely lock to saccades in a content-dependent manner.

Montefusco-Siegmund R¹, Devia C¹, Egaña J², Maldonado P^{1,3}, ¹Neurosistemas, Medicina, Biomedical Neuroscience Institute.²Departamento de Anestesiología y Reanimación, Medicina, Universidad de Chile.³Neurociencia, Medicina, Universidad de Chile.

25) Neural oscillatory correlates of attentional deficit in visual perception of patients with schizophrenia and subjects with high-risk of developing psychosis.

Oyarzo P^{1,2}, Corral S^{1,2}, Mayol R^{1,2}, Aburto M^{1,2}, Castillo R^{1,2}, Abrigo C^{1,2}, González D^{1,2}, Silva H^{2,3}, Gaspar P^{1,2,3}, ¹Neurociencias, Medicina, Universidad de Chile.²Traslational Psychiatry Lab Biomedical Neuroscience Institute.³Psiquiatria, Medicina, Universidad de Chile.

27) Psychosocial stress affects goal-directed attention: an integrative multilevel perspective.

Palacios I^{1,2}, Silva J³, Bosman C⁴, Rodriguez E^{1,2},
¹Centro interdisciplinario de Neurociencia, Facultad de Medicina, Pontificia Universidad Católica De Chile.²Laboratorio de Neurodinámica básica y aplicada, Facultad de Psicología, Pontificia Universidad Católica De Chile.³Departamento de Psicología Universidad del Desarrollo.⁴System and Cognitive Neuroscience University of Amsterdam. (Sponsored by None)



29) Changes on functional connectivity with neurofeedback based on real-time functional magnetic resonance in autism spectrum disorder.

Pereira J^{1,2}, Rana M^{1,2}, Tejos C^{3,4,5}, Sepulveda P^{1,6}, Torres R¹, Montalba C⁵, Sitaram R^{1,2,4}, Ruiz S^{1,2}, ¹Department of Psychiatry Pontificia Universidad Católica de Chile.²Laboratory for BMI and Neuromodulation, Interdisciplinary Center for Neurosciences, Pontificia Universidad Católica de Chile.³Department of Electrical Engineering Pontificia Universidad Católica de Chile.⁴Institute for Biological and Medical Engineering, Schools of Engineering, Medicine and Biological Sciences, Pontificia Universidad Católica de Chile.⁵Biomedical Imaging Center Pontificia Universidad Católica de Chile.⁶Institute of Cognitive Neuroscience (ICN) University College London. (Sponsored by This Work Is Supported By Department Of Psychiatry And Medicine School, Pontificia Universidad Católica de Chile And CONICYT By Doctorado_Nacional/2014-21140705, Fondecyt_Regular/1171313 & 1171320 And PIA/Project_ACT1416)

31) Detection of ASSR as a function of neural habituation and averaging protocol.

Prado P¹, Martinez E², Weinstein A³, El-Deredy W³, Zañartu M¹, ¹AC3E Universidad Técnica Federico Santa María.²Neuroinformatics Department Cuban Neuroscience Center.³Biomedical Engineering Universidad de Valparaíso.

33) Electrophysiological correlates of visuospatial working memory: the effect of catecholaminergic imbalance.

Santander D¹, Wainstein G¹, Domic M¹, Valdés J¹, De La Parra A², Arias C², Brown E³, Ossandón T¹, ¹Departamento de Psiquiatría, Facultad de Medicina, Pontificia Universidad Católica de Chile.²Instituto de Nutrición y Tecnología de Alimentos Universidad de Chile.³Neuroscience Statistics Research Lab Technological Institute of Massachusetts.

35) The changes in brain self-regulation due to reward observed through an fNIRS Brain-Machine Interface.

Thakkar I¹, Lagos W², Sulzer J³, Torres R⁴, Sitaram R⁵, Ruiz S⁶, Rana M⁷, ¹Department of Neuroscience Pontificia Universidad Católica de Chile.²Department of Psychotherapy Pontificia Universidad Católica de Chile and Universidad de Chile.³Department of Mechanical Engineering University of Texas at Austin.⁴Department of Psychiatry, School of Medicine, , Pontificia Universidad Católica de Chile.⁵Department of Neuroscience and Department of Psychiatry, Faculties of Biology, Engineering and Medicine, Pontificia Universidad Católica de Chile.⁶Department of Neuroscience and Department of Psychiatry, School of Medicine, Pontificia Universidad Católica de Chile.⁷Department of Neuroscience and Department of Psychiatry Pontificia Universidad Católica de Chile.

37) Aging alters performance in a visual attention task with auditory distractors in Alpha-9 Nicotinic Receptor Subunit Knock-Out Mice.

Vicencio S¹, Jorratt P¹, Terreros G², Delano P^{1,3}, ¹Neurociencias, Medicina, Universidad de Chile.²Instituto de Ciencias de la Salud Universidad de O'Higgins.³Departamento de Otorrinolaringología Hospital Clínico de la Universidad de Chile.

39) Pupil diameter as a marker of Noradrenergic system dysfunction in ADHD during a working memory task.

Wainstein G¹, Rojas-Líbano D², Crossley N¹, Carrasco X³, Aboitiz F³, Ossandón T³, ¹Psiquiatría, Medicina, Pontificia Universidad Católica de Chile.²Laboratorio de Neurociencia Cognitiva y Social, , Facultad de Psicología, Universidad Diego Portales,.³Servicio de Neurología y Psiquiatría, Facultad de Medicina, Universidad de Chile. (Sponsored by Our Research Was Supported By CONICYT, FONDECYT 1140996)

41) Lexical incongruence detection in schizophrenia.

Zepeda-Rivera L¹, Alonso-Sánchez M F1, González J1, Prado P2, Aguilar M¹, ¹Escuela Fonoaudiología, Salud, Universidad Santo Tomás.²Centro Avanzado de Ingeniería Eléctrica y Electrónica , Ingeniería Electrica , Universidad Técnica Federico Santa María.



43) On the search of retinal Neural Ensembles.

Mora S¹, Herzog R¹, Palacios A¹, ¹CINV, Ciencias, Universidad de Valparaíso.

45) Light/dark cycles modulate asymmetric parapineal connectivity to the left habenula in zebrafish larvae.

Palma K^{1,2,3,4}, Meynard M^{1,2}, Cornejo V², Cerdá M^{1,4}, Jara J^{1,4}, Härtel S^{1,4}, Concha M^{1,2,3}, ¹Biomedical Neuroscience Institute, Facultad de Medicina, Universidad de Chile.²Laboratory of Experimental Ontogeny, Departamento de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile.³Centro de Envejecimiento Salud Mental y Metabolismo Gero, departamento de biología, Facultad de Ciencias , Universidad de Chile.⁴SCIAN-Lab, Departamento de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile.

47) Epithalamic asymmetries: comparative approach of neurogenesis in zebrafish and medaka.

Ríos J^{1,2,3,4}, Signore I^{1,2,3,4}, Concha M^{1,2,3,4}, ¹Laboratory of Experimental Ontogeny, Faculty of Medicine, Universidad de Chile.²Instituto de Ciencias Biomédicas Universidad de Chile.³Biomedical Neuroscience Institute Universidad de Chile.⁴Center for Geroscience, Brain Health and Metabolism Universidad de Chile.

49) Activity of monomeric GTPases Rab5 and Rab11 is increased by BDNF stimulation in cortical neurons.

Stuardo N¹, Moya G¹, Bronfman F¹, ¹Departamento de Fisiología , Facultad de Ciencias Biológicas , Pontificia Universidad Católica de Chile.

51) Effect of glucocorticoids acting at the insular cortex in anxiety.

Bahamonde T¹, Tamburini G¹, Quintana D¹, Díaz R1, Stehberg J¹, ¹Laboratorio de Neurobiología Universidad Andrés Bello. (Sponsored by FONDECYT 1160986)

53) Targeting astrocytes for antidepressants.

Cornejo F¹, Duarte Y¹, Méndez M¹, Quintana D¹, Olivares P², Stehberg J¹, ¹Laboratorio de Neurobiología Universidad Andrés Bello.²Laboratorio de Fisiopatología Celular y Molecular Universidad Andrés Bello. (Sponsored by FONDECYT 1160986)

55) Individual differences on dorsolateral striatum single unit activity during amphetamine repeated administration.

Gatica R^{1,2}, Aguilar-Rivera M³, Fuentealba J^{1,2},
¹Centro Interdisciplinario de Neurociencia Pontificia Universidad Católica de Chile.²Laboratorio de Neuroquímica, Departamento de Farmacia, Facultad de Química, Pontificia Universidad Católica de Chile.³Department of Bioengineering University of California, San Diego. (Sponsored by Sponsored By FONDECYT N° 1141088, CONICYT-PCHA Doctorado Nacional 2016-21161366 And Concurso De Apoyo Para El Desarrollo De Tesis De Post-grado 2016 PMD-05/16.)

57) Palmitic acid induces hypothalamic inflammation through the activation of G-protein coupled receptor 40 (GPR40).

Hernández-Cáceres M¹, Morselli E¹, ¹Physiology, Biological Sciences, Pontificia Universidad Católica de Chile. (Sponsored by FONDECYT 1160820)

59) Sleep/wake disorders and the hypocretin/orexin system in a zebrafish model of Parkinson's Disease.

Laliena A^{1,2,3}, Castañeda V^{1,4}, Härtel S^{1,4}, Concha M^{1,2,3}, ¹Biomedical Neuroscience Institute, Facultad de Medicina, Universidad de Chile.²Laboratory of Experimental Ontogeny, Departamento de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile.³Centro de Envejecimiento Salud Mental y Metabolismo Gero, Departamento de Biología, Facultad de Ciencias , Universidad de Chile.⁴SCIAN-Lab, Departamento de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile.

61) Characterization of a presymptomatic stage in a Drosophila Parkinson's disease model: unveiling dopaminergic compensatory mechanisms.

Molina-Mateo D¹, Fuenzalida-Uribe N¹, Hidalgo S¹, Molina-Fernandez C¹, Abarca J¹, Escandon M², Figueroa R², Tevy F², Campusano J¹, ¹Celular Biology, Biological Sciences , Pontificia Universidad Católica de Chile.²Centro de Genómica y Bioinformática, Facultad de Ciencias, Universidad Mayor. (Sponsored by Fondecyt 1141233)



63) Neuroprotective effect of Chronic Spinal Cord Stimulation (SCS) in an α-synuclein model of Parkinson's disease.

Parra A V¹, Vidal R², Fuentes R¹, ¹Neurociencia, de Medicina, Universidad de Chile. ²Center for Integrative Biology. Translational Neurobiology Laboratory. Universidad Mayor.

65) Interaction of neuropeptides DYN-A1-13 and orexin-A in the selection and intake of palatable foods.

Baeza N^{1,2}, Tabita T², Alvarez B², Perez-Leighton C^{2,3}, ¹Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad de Chile. ²Center for Integrative Medicine and Innovative Science (CIMIS), Facultad de Medicina, Universidad Andrés Bello. ³Department of Food Science and Nutrition, Food Science and Nutrition, University of Minnesota.

67) D-serine from medullary brainstem astrocytes mediates the breathing response to hypercapnia.

Beltran-Castillo S¹, Olivares M J¹, Llona I¹, Von Bernhardi R², Eugenín J¹, ¹Departamento de Biología, Química y Biología, Universidad de Santiago de Chile. ²Departamento de Neurología, Facultad de Medicina, Pontificia Universidad Católica de Chile.

69) Endoplasmic reticulum stress and neuroinflammation in heart failure: A novel link to sympathoexcitation.

Díaz H¹, Toledo C¹, Andrade D¹, Lucero C¹, Arce-Alvarez A¹, Del Rio R¹, ¹Departamento de Fisiología, Laboratory of Cardiorespiratory Control, Pontificia Universidad Católica de Chile.

71) Morphological and Neurochemical Characterization of the Neuronal Circuit

Parapineal Organ-Habenula in Adult Zebrafish.

Meynard M^{1,2,4}, Palma K^{1,2,3,4}, Ibarra J², Concha M^{1,2,4}, ¹Center for Geroscience, Brain Health and Metabolism, Facultad de Ciencias, Universidad de Chile. ²Laboratory of Experimental Ontogeny, Programa de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile. ³SCIAN-Lab, Programa de Anatomía y Biología del Desarrollo, ICBM, Facultad de Medicina, Universidad de Chile. ⁴Biomedical Neuroscience Institute, Facultad de Medicina, Universidad de Chile. (Sponsored by Fondecyt Posdoctorado 3160421, Fondecyt 1161274, ICM P-09-015-F, Conicyt PIA ACT1402, FONDAP 15150012)

73) Pannexin 1 modulates GluN2-subunit contribution to synaptic plasticity and spatial reversal learning in mice.

Gajardo I¹, Salazar C², Lopez-Espíndola D³, Estay C¹, Flores-Muñoz C², Martínez A², Muñoz P^{1,4,5}, Ardiles Á¹, ¹Escuela de Medicina , Medicina, Universidad De Valparaíso.²Instituto Neurociencias, Ciencias, Universidad de Valparaíso.³Escuela Tecnología Médica, Medicina, Universidad de Valparaíso.⁴Interdisciplinary Center for Innovation in Health, Medicina, Universidad De Valparaíso.⁵Center for Applied Neurological Sciences, Medicina, Universidad De Valparaíso.

75) Assessment of retinal function in serotonin transporter (SERT) knockout mice.

Alcaino A^{1,3}, Quiroz C^{1,3}, Vielma A¹, Olivares F¹, Cadiz B¹, Guajardo F², Ibaceta C¹, Sotomayor-Zárate R², Schmachtenberg O¹, Palacios A¹, Moya P^{2,3}, Chavez A^{1,3}, ¹Centro Interdisciplinario de Neurociencias, Instituto de Neurociencias, Ciencias, Universidad de Valparaíso.²Centro de Neurobiología y Plasticidad Cerebral, Instituto de Fisiología, Ciencias, Universidad de Valparaíso.³Nucleo Milenio NuMIND, Ciencias, Universidad de Valparaíso. (Sponsored by Supported By Fondecyt 1151091 (A.E.C), 1160398 (RSZ), 1171228 (O.S.) And 1150638 (AGP), Núcleo Milenio Nu-MIND, NC 130011 (A.E.C And P.R.M) And The Millennium Institute CINV (P09-022F).)

77) Light activation of the phototransduction cascade in membrane patches excised from the light-sensitive microvilli of Drosophila photoreceptors.

Bacigalupo J¹, Bacigalupo J, Delgado R¹, Delgado M G¹, ¹Biología, Ciencias, Universidad de Chile.

79) Patch clamp analysis of insulinergic and nitrergic modulation at first-order interneurons in Olfactory Bulb.

Calbiague V¹, Cadiz B¹, Vielma A¹, Berteau C¹, Schmachtenberg O¹, ¹CINV, Ciencias, Universidad de Valparaíso.

81) Synapse-specific modulation of excitatory synaptic strength by TRPV1 channel in the hippocampus.

Estay S^{1,2}, Lara I^{1,2}, Reyes C^{1,2}, Moya P^{1,2,3}, Chavez A^{1,2}, ¹Centro Interdisciplinario de Neurociencias, Instituto de Neurociencias, Facultad de Ciencias, Universidad de Valparaíso.²Nucleo Milenio NuMIND, Ciencias, Universidad de Valparaíso.³Centro de Neurobiología y Plasticidad Cerebral, Instituto de Fisiología, Ciencias, Universidad de Valparaíso.



83) Are there GABAergic neurons in the Ventral Tegmental area (VTA)? A long-range projection labeling and electrophysiological study.

Gonzalez C¹, Montero T¹, Henny P¹, ¹Anatomia Normal, Medicina, Pontificia Universidad Católica de Chile.

85) RETIRADO

87) Modulation of TRPM8 channels by basal phosphorylation.

Lavanderos B¹, Rivera B¹, Madrid R¹, Pertusa M¹, ¹Biología, Química y Biología, Universidad de Santiago de Chile.

89) Inhibitory and Excitatory Synaptic Contact Number and Distribution of in vivo Recorded Dopaminergic Neurons in the Mouse Ventral Tegmental Area.

Montero T¹, Gonzalez-Cabrera C¹, Henny P¹, ¹Anatomía Normal, Medicina, Pontificia Universidad Católica de Chile.

91) Adolescent exposure of WIN55212-2 increases population activity of mesolimbic and nigrostriatal dopaminergic pathways.

Perez-Valenzuela E^{1,3}, Grace A², Fuentealba J^{1,3}, ¹Pharmacy, Chemistry, Pontificia Universidad Católica de Chile.²Neuroscience, Psychiatry and Psychology University of Pittsburgh.³Centro Interdisciplinario de Neurociencia, Medicina, Pontificia Universidad Católica de Chile. (Sponsored by FONDECYT Project #1141088 And CONICYT Fellowship #21150450)

93) Endocannabinoid-mediated depolarization-induced suppression of a glycinergic synapse in the mammalian retina.

Quiroz C¹, Chávez A¹, ¹Centro Interdisciplinario de Neurociencias, Instituto de Neurociencias, Ciencias, Universidad de Valparaíso. (Sponsored by Supported By Fondecyt (1151091), Núcleo Milenio Nu-MIND (NC 130011) And The Millennium Institute CINV (P09-022F))

95) P2X7 receptor signaling in the retrotrapezoid nucleus contribute to breathing pattern irregularities in heart failure.

Toledo C¹, Andrade D², Diaz H¹, Alexis A², Lucero C¹, Rodrigo D R², ¹Biomedical Research Center Universidad Autónoma de Chile.²Departament of Physiology , Laboratory of Cardiorespiratory Control, Pontificia Universidad Católica de Chile.

**97) ATP sources for chemotransduction
in rat olfactory cilia.**

Acevedo C¹, Bacigalupo J¹, Vergara C¹, ¹Biología, Ciencias, Universidad de Chile.

99) Mechanisms of action of *Loxosceles laeta* venom on cultured human fibroblasts.

Bertea C¹, Flores C¹, Maripillán J¹, Martínez A¹, Schmachtenberg O¹, ¹Instituto de Neurociencias, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by Supported By The Millennium Institute CINV.)

**101) Enhancement of MOC activity
prevents the onset of hidden hearing loss after
acoustic trauma.**

Boero L², Castagna V², Goutman J¹, Elgoyheng A², Gomez-Casati M², ¹INGEBI-CONICET Universidad de Buenos Aires.²Instituto de Farmacología, Facultad de Medicina, Universidad de Buenos Aires.

**103) Effects of opioid-induced analgesia
on electroencephalographic markers of pain
perception.**

Egaña J I², Montefusco-Siegmund R¹, Blanch A², Rojas-Libano D³, Rivera G⁴, ¹Laboratorio de Neurosistemas, Facultad de Medicina, Biomedical Neuroscience Institute.²Departamento de Anestesiología y Reanimación, Facultad de Medicina, Universidad de Chile.³Departamento de Educación, Facultad de Educación, Universidad Alberto Hurtado.⁴Departamento de Kinesiología, Facultad de Medicina, Universidad de Chile.

**105) Frequency-dependent modulation
of motor adaptation by cerebellar transcranial
alternated current stimulation.**

Mariman J J^{1,2}, Rojas-Libano D^{1,3}, Valero-Cabré A⁴, Maldonado P E¹, ¹Department of Neuroscience, BNI & Faculty of Medicine Universidad de Chile.²Laboratorio de Cognición y Control Sensoriomotor, Department of Kinesiology Universidad Metropolitana de Ciencias de la Educación.³Laboratorio de Neurociencia Cognitiva y Social, Faculty of Psychology Universidad Diego Portales.⁴Cerebral networks, plasticity and rehabilitation team, Frontlab Institut du cerveau et la moelle, & CNRS umr 7225.



107) Perceptual Stability and Discrimination of Olfactory Representations.

Nuñez-Parra A¹, Nunez V¹, Pino G¹, ¹Laboratorio de Neurociencia de Sistemas, Instituto de Ciencias Biomédicas, Universidad Autónoma de Chile.

109) Voluntary versus spontaneous control of biestable stimuli perception.

Osorio M¹, Rodríguez E¹, ¹Escuela de Psicología, Facultad de Ciencias Sociales, Pontificia Universidad Católica De Chile. (Sponsored by MO To Vicerrectoría De Investigación Pontificia Universidad Católica, Concurso De Investigación Pregrado Invierno 2014. ER To Fondecyt Regular 1120752.)

111) Role of Pannexin-1 in the post-natal maturation of the Organ of Corti.

Prado P¹, Jara O², Maripillán J², Flores C², Martinez A², ¹Sistemas Biomédicos, AC3E, Universidad Técnica Federico Santa María.²Comunicación Intercelular, CINV, Universidad de Valparaíso.

113) The endocannabinoid system shapes amacrine cell light-evoked responses in the retina.

Tapia F¹, Chávez A^{1,2}, Vielma A¹, Schmachtenberg O¹, ¹CINV, Ciencias, Universidad de Valparaíso.²Núcleo Milenio NU-MIND, Ciencias, Universidad de Valparaíso. (Sponsored by FONDECYT 1151091, 1171228. Millennium Institute CINV, Millennium Nucleus NU-MIND NC-130011. CONICYT-PFCHA/Doctorado Nacional/2017.)

115) Cannabinoid receptors participate in the control of inhibitory activity in bipolar cells of rat retina.

Vielma A¹, Tapia F¹, Chávez A¹, Fuenzalida M², Schmachtenberg O¹, ¹Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso.²Instituto de Fisiología, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by Regular FONDECYT #1171228 (OS, AHV), #1171006 (MF), And #1151091 (AEC). Millennium Institute CINV (OS, AEC) And Millennium Nucleus NU-MIND NC-130011 (AEC, MF).)

Monday, October 2nd

- ⌚ 08:30-10:30 **SYMPOSIUM 3: Insights into hypothalamic control of energy balance and food intake.**
Chair: Claudio Pérez-Leighton.
Room: Abtao
- ⌚ 08:30- 09:00 **Primary cilium and autophagy regulates inflammation and insulin sensitivity in hypothalamic neurons.**
Ávalos Y¹, Morselli E¹, ¹Physiology, Biological Sciences, Pontificia Universidad Católica de Chile.
- ⌚ 09:00-09:30 **Sleep deprivation-induced obesity: role of orexin-mediated energy intake and expenditure.**
Teske J¹, ¹Nutritional Sciences University of Arizona.
- ⌚ 09:30-10:00 **Neuropeptides in the regulation of physical activity and food choice: orexin, dynorphins and GLP1.**
Perez-Leighton C^{1,2}, ¹Food Science and Nutrition University of Minnesota.²Facultad de Medicina, Universidad Andres Bello.
- ⌚ 08:30-10:30 **SYMPOSIUM 4: From neural connectivity to network dynamics.**
Chair: Patricio Orio.
Room: Inio
- ⌚ 08:30- 09:00 **Mechanisms of spatial working memory in the prefrontal cortex.**
Compte A¹, Barbosa J¹, Wimmer K², ¹Experimental and Clinical Neurosciences IDIBAPS.²Computational Neuroscience CRM.

 09:00-09:30	Functional connectivity in the retina. Escobar M¹ , Otero M ¹ , Reyes C ¹ , Herzog R ² , Araya J ² , Ibaceta C ² , Palacios A ³ , ¹ Departamento de Electrónica Universidad Técnica Federico Santa María. ² Centro Interdisciplinario de Neurociencia de Valparaíso Universidad de Valparaíso. ³ Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso.
 09:30-10:00	Irreversibility and Non-equilibrium Maximum Entropy Processes from Spike Trains. Cofre. R¹ , ¹ CIMFAV, INGENIERIA, Valparaíso.
 10:00-10:30	The interplay between Neural dynamics, Connectivity and Network Dynamics. Orio P¹ , Castro S ¹ , Xu K ¹ , Maidana J P ¹ , ¹ Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso
 10:30-11:30	COFFEE BREAK
 11:30-12:30	PLENARY LECTURE Host: Juan Bacigalupo Room: Inio Diversity and Evolution of Photoreception: From Circadian Light Sensors to Spatio-Temporal Vision. Gómez M¹ , ¹ Biología, Ciencias, Universidad Nacional de Colombia.
 11:00-12:30	Extensión en Educación en el Congreso. Charla dirigida a los profesores del liceo Liceo Galvarino Gallardo, Castro, X Región. Barraza, Paulo, PhD. Título " Neuromitos en Educación "

⌚ 12:30-14.30	LUNCH
⌚ 14:30-16:30	ORAL COMMUNICATIONS I Chirs: Timothy Marzullo María José Escobar Room: Abtao
⌚ 14:30-14:45	Bumetanide enhances the pharmacological effect of phenobarbital, on electroencephalographic and behavioral level, in an animal model of temporal lobe epilepsy. Mantellero C^{1,2} , Amaro J ² , Borquez M ² , Ocampo A ² , Valdes J ² , Rojas P ¹ , ¹ Biología, Química y Biología, Universidad de Santiago de Chile. ² Fisiología y Biofísica, Medicina, Universidad de Chile.
⌚ 14:45-15:00	Relative clause concordance and the syntax complexity in spanish: An ERP study. Alonso-Sánchez M F¹ , Alfaro-Faccio P ² , Zepeda-Rivera L ¹ , Von Chrismar D ² , ¹ Escuela de Fonoaudiología, Salud, Universidad Santo Tomás. ² Instituto de literatura y ciencias del lenguaje Pontificia Universidad Católica de Valparaíso.
⌚ 15:00-15:15	Effects of age hearing loss on sub-cortical regions. Belkhiria C¹ , Delano P ² , Garrido C ³ , Delgado C ³ , ¹ Departamento de Neurociencia, Facultad de Medicina , Universidad de Chile. ² Departamento Otorrinolaringología, Facultad de Medicina, Universidad de Chile. ³ Departamento Neurología , Facultad de Medicina, Universidad de Chile. (Funded By PIA-CONICYT Program: Anillo De Investigacion En Ciencia ACT1403)

⌚ 15:15-15:30

Lombard effect and vocal hyperfunction: Biomechanical, acoustic and cortical changes in subjects with muscle tension dysphonia and normal voice.

Castro C¹, Prado P², Marfull D¹, Testart A³, Weinstein A⁴, Zepeda L², Zañartu M², ¹Fonoaudiología, Medicina, Universidad de Valparaíso.²Ingeniería Electrónica, Ingenieria Electrónica, Universidad Técnica Federico Santa María.³Fonoaudiología, Medicina, Universidad de Playa Ancha de Ciencias de La Educación.⁴Ingenieria Biomédica, Ingenieria, Universidad de Valparaíso.

⌚ 15:30-15:45

Cortical and auditory efferent dynamics during selective attention to visual stimuli.

Dragicevic C¹, Navarrete M², Marcenaro B³, Délano P^{1,4}, ¹Departamento de Neurociencia, Medicina, Universidad De Chile.²Programa de Magister en Ciencias Biológicas, mención Neurociencias, Ciencias, Universidad de Valparaíso.³Centro Interdisciplinario de Neurociencias, Medicina, Pontificia Universidad Católica de Chile.⁴Departamento de Otorrinolaringología, Medicina, Hospital Clínico de la Universidad de Chile.

⌚ 15:45-16:00

Corollary discharge associated to non-speech sounds is impaired in schizophrenia.

Prado P¹, Cavieres Á², Weinstein A³, Zepeda L¹, Otero M¹, Zañartu M¹, Kotz S⁴, El-Deredy W³, ¹AC3E Universidad Técnica Federico Santa María.²Psiquiatría, Medicina, Universidad de Valparaíso.³Biomédica Universidad de Valparaíso.⁴Neuropsychology & Psychopharmacology Maastricht University.

⌚ 16:00-16:15	Network complexity of coherence patterns correlates with mean subjects' reaction time. Devia C^{1,2} , Maldonado P ³ , Rodriguez E ² , ¹ Biomedical Neuroscience Institute (BNI) Universidad de Chile. ² Laboratorio de Neurodinamica Pontificia Universidad Católica De Chile. ³ de Neurociencias Universidad de Chile.
⌚ 16:15-16:30	Local topology of connectome as a parameter to stabilizes critical range in (a model of) global neural dynamics. Castro S^{1,2} , Fernandez M ³ , El Deredy W ⁴ , Orio P ^{1,5} , ¹ Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso. ² Facultad de Ciencias, Programa de Doctorado en Ciencias mención en Neurociencia, Universidad de Valparaíso. ³ Laboratorio de Electrónica Industrial, Control e Instrumentacion, Ingenieria, Universidad Nacional de La Plata. ⁴ Ingenieria Biomedica, Ingenieria, Universidad de Valparaíso. ⁵ Instituto de Neurociencias, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by SC Is Recipient Of A Ph.D. Fellowship From CONICYT. PO And WeD Are Partially Funded By The Advanced Center For Electronic Engineering (FB0008 CONICYT, Chile). The Centro Interdisciplinario de Neurociencia De Valparaíso (CINV) Is A Millennium Institute Sup)
⌚ 14:30-16:30	ORAL COMMUNICATIONS II Chairs: Juan Bacigalupo Alexia Núñez-Parra Room:Inio
⌚ 14:30-14:45	Model quantification of direction selectivity in starburst amacrine cells in the mammalian retina. Medina L¹ , Castro S ¹ , Palma J ¹ , Escobar M J ² , Orio P ¹ , ¹ Centro Interdisciplinario de Neurociencia de Valparaíso Universidad de Valparaíso. ² Electronica Universidad Técnica Federico Santa María.

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- ⌚ 14:45:15:00
- ⌚ 15:00-15:15
- ⌚ 15:15-15:30 **Common signatures of physiological aging and aging by neurodegeneration in Drosophila models.**
Tevy M F¹, Caris C¹, Maracaja-Coutinho V¹, Molina-Fernandez C¹, Capocefalo D³, Lopez-Quilodran N¹, Martinez P², Mazza T³, ¹Centro de Genómica y Bioinformática, de Ciencias, Universidad Mayor.²Biomedical Research Center Universidad Andrés Bello.³Mendel Institute Bioinformatics Unit, I.R.C.C.S. "Casa Sollievo della Sofferenza". (Sponsored by FONDECYT N11130203)
- ⌚ 15:30-15:45 **Brain activity during active vision: an ecological approach to the study of neural dynamics.**
Montefusco-Siegmund R¹, Devia C¹, Egaña J², Maldonado P^{1,3}, ¹Biomedical Neuroscience Institute, Medicina, Universidad de Chile.²Anestesiología y Reanimación, Medicina, Universidad de Chile.³Neurociencia, Medicina, Universidad de Chile.
- ⌚ 15:45-16:00 **Lithium control the topographic and temporal initiation of firing activity through a mechanism depending of β-catenin.**
Oliva C¹, Tapia-Rojas C¹, Lindsay C¹, Inestrosa N¹, ¹Cellular and Molecular Biology, Ciencias Biológicas, Center for Aging and Regeneration CARE-UC and Pontificia Universidad Católica de Chile. (Sponsored by Supported By The Basal Centre Of Excellence In Science And Technology CONICYT-CARE (PFB 12/2007 To NCI), A FONDECYT (grant Number 1120156 To NCI). We Also Thank A Special Grant On ?Lithium In Health And Disease? From The Sociedad Química y Minera de Chile)

⌚ 16:00-16:15	Improved remyelination by increasing neuronal activity in the freely moving mice. Ortiz F¹ , Habermacher C ² , Houry P Y ² , Graciarena M ³ , Lopez C ¹ , Nait-Oumesmar B ³ , Angulo M C ² , ¹ Mechanisms on Myelin Formation and Repair Laboratory, Instituto Ciencias Biomedicas, Facultad de Ciencias de la Salud, Universidad Autónoma de Chile. ² Physiology of NG2 Cells, U1128, Paris Descartes University. ³ u1127 Institut du Cerveau et de la Moelle épinière.
⌚ 16:15-16:30	Ventro-dorsal hippocampal interaction controls context memory formation. Fredes F¹ , Silva M A ¹ , Shigemoto R ¹ , ¹ Neuroscience Institute of Science and Technology (IST) Austria . (Sponsored by ERC AdG 694539 SINCHAINS)
⌚ 16:30-17:00	COFFEE BREAK
⌚ 17:00-19:00	SYMPOSIUM 5: Cognitive Neuroscience and Ageing: the contribution of clinical research. Chair: Andrea Slachevsky. Room: Abtao
⌚ 17:00-17:30	Neuroimaging in Neurodegeneration. Cruz de Souza L. Universidade Federal de Minas Gerais
⌚ 17:30-18:00	Cognitive consequences of hidden hearing loss. Delano P^{1,2} , Leiva A ² , Martinez M ³ , Soto A ³ , Elespuru K ² , Delgado C ^{1,3} , ¹ Neurociencia, Medicina, Universidad Chile. ² Otorrinolaringología, Medicina, Universidad de Chile. ³ Neurología y Neurocirugía, HCUCH, Universidad de Chile.

⌚ 18:00-18:30

**Functionality and dementia:
A critical issue in dementia
research.**

Slachevsky, A. Associate Professor, ICBM and Neuroscience Department, Faculty of Medicine and Geroscience Center for Brain Health and Metabolism (GERO)), Chile; Universidad de Chile.

⌚ 18:30-19:00

**Apathy and functionality in
Alzheimer disease.**

Delgado, C^{1,3}, Vergara R², Martinez M¹, Soto A¹, Slachevsky A^{3,4,5}.¹Neurología y Neurocirugía Hospital Clínico Universidad de Chile, Medicina, Universidad de Chile.²Biomedical Neuroscience Institute, Medicina, Universidad de Chile.³Neurociencia, Medicina, Universidad de Chile.⁴Ciencias Neurológicas Oriente, Medicina, Universidad de Chile.⁵Geroscience Institut, Medicina, Universidad de Chile.

⌚ 17:00-19:00

**SYMPORIUM 6: Neural control
of the cardiorespiratory
function: a view from the
central and peripheral nervous
system.**

Chair: Julio Alcayaga.

Room: Inio

⌚ 17:00-17:30

**Petrosal ganglion neuron
modifications induced by chronic
phenytoin treatment: implication
in anticonvulsant treatment
hypoventilation.**

Alcayaga J¹, ¹Departamento de Biología, Facultad de Ciencias, Universidad de Chile.

⌚ 17:30-18:00

**Is there anything the brain can
tell us about heart disease?.**

Del Rio, R. Laboratory of Cardiorespiratory Control, Department of Physiology, Faculty of Biological Sciences, P. Universidad Católica de Chile, Santiago, Chile.

⌚ 18:00-18:30	Carotid body chemoreceptor denervation in intermittent hypoxia mimicking obstructive sleep apnea. Iturriaga R¹ , Andrade D ¹ , Del Rio R ¹ , ¹ Laboratorio de Neurobiología, Ciencias Biológicas, Pontificia Universidad Católica de Chile.
⌚ 18:30-19:00	Respiratory chemoreception's neuroplasticity in a rat model of Parkinson's disease. Oliveira L ¹ , Tuppy M ¹ , Moreira T ² , Takakura A³ , ¹ Pharmacology University of Sao Paulo. ² Physiology and Biophysics Associate Professor, University of Sao Paulo. ³ Pharmacology, Assistance Professor, University of Sao Paulo.

⌚ 19:00-20:00	Asamblea de Socios Room: Inio
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⌚ 20:00-23:00 **POSTER SESSION II**

Coordinators: Chirstian Cea del Rio
Alexies Dagnino
Trinidad Mariqueo
Cecilia Vergara

Room: Cacao

2) **Prominence in sentence comprehension in schizophrenic subjects: An ERP study.**

Alonso-Sánchez M F¹, Zepeda-Rivera L², ¹Escuela de Fonoaudiología, Salud, Universidad Santo Tomás.²AC3E Universidad Técnica Federico Santa María.

4) **Autonomic nervous system impairment in children with pyramidal syndrome.**

Arce-Alvarez A^{1,3}, Melipillan C², Andrade D¹, Toledo C³, Díaz H³, Lucero C³, Del Río R⁴, ¹Laboratory of Cardiorespiratory Control, Faculty of biological sciences, Pontificia Universidad Católica de Chile.²Research Unit Corporación de Rehabilitación Club de Leones Cruz del Sur.³Center of Biomedical Research Universidad Autónoma de Chile.⁴Department of Physiology, Faculty of biological sciences, Pontificia Universidad Católica de Chile.
(Sponsored by Rodrigo Del Rio)



6) Alterations of reinforced and supervised motor learning in subjects with parkinson´s disease.

Burgos P¹, Gonzalez D², Verdugo C², Wimmer J³,
¹Neurociencia, Kinesiología, Medicina, Universidad de Chile.²Kinesiología, Medicina, Universidad de Chile.³Applied neuroscience lab El Carmen Hospital Maipú. (Sponsored by Ramiro Zepeda, Paola Vargas, El Carmen Hospital Of Maipú)

8) Outcomes of a novel visuospatial planning task coupled to eye-tracker and electroencephalogram systems.

Domic M¹, Follet B¹, Wainstein G¹, Sánchez A¹, Valdés J¹, Medel V¹, Santander D¹, Perrone-Bertolotti M², Ossandón T¹, ¹Departamento de Psiquiatría, Facultad de Medicina, Pontificia Universidad Católica de Chile.²Laboratoire de Psychologie et NeuroCognition UMR5105 Université Grenoble Alpes. (Sponsored by Comisión Nacional de Investigación Científica y Tecnológica - CONICYT)

10) Association between peripheral vestibular function and cognitive performance in elderly population from Santiago de Chile.

Faúndez J P^{1,2}, Martínez M^{2,3}, Soto A^{2,3}, Delgado C^{2,3}, Délano P^{2,4,5}, ¹Hearing, Speech and Language Sciences, Medicine, University of Chile.²Auditory and Cognition Center, Medicine, University of Chile.³Neurology and Neurosurgery Clinic Hospital of University of Chile.⁴Neuroscience, Medicine, University of Chile.⁵Otorhinolaryngology, Clinic Hospital , University of Chile.

12) Influence of vocabulary skills on visual context and linguistic processing interaction in 2 year-old children.

Helo A¹, Azaiez N², Ommen S³, Pannasch S⁴, Rämä P^{3,5}, ¹Departamento de Fonoaudiología, Facultad de Medicina, Universidad de Chile.²Department of Psychology University of Jyväskylä, Finland.³Laboratoire Psychologie de la Perception Paris Descartes.⁴Department of Psychology, Engineering Psychology and Applied Cognitive Research University of Dresden.⁵CNRS (UMR 8242) Paris, France.

14) Temporal changes in the neural correlates during different stages of propofol-induced anesthesia using EEG.

Irani M^{1,2}, Sánchez A^{2,3}, Rana M^{2,3}, Fuentes C⁴, Pedemonte J⁴, Cortinez L⁴, Ruiz S^{2,3}, Sitaram R^{2,3,5},

¹Facultad de Ciencias Químicas y Farmacéuticas Universidad de Chile.²Laboratory of Brain-Machine Interfaces and Neuromodulation Pontificia Universidad Católica de Chile.³Department of Psychiatry, Interdisciplinary Center for Neuroscience, School of Medicine, Pontificia Universidad Católica de Chile.⁴Department of Anaesthesiology, School of Medicine, Pontificia Universidad Católica de Chile.⁵Institute for Biological and Medical Engineering, Medicine, Biology and Engineering, Pontificia Universidad Católica de Chile.

16) Difference in perseverative errors during a visual attention task with auditory distractors in alpha-9 nicotinic receptor subunit wild type and knock-out mice.

Jorratt P¹, Delano P^{1,2}, Delgado C^{1,3}, Dagnino-Subiabre A⁴, Terreros G⁵, ¹Departamento de Neurociencia, Facultad de Medicina, Universidad de Chile.²Departamento de Otorrinolaringología Hospital Clínico de la Universidad de Chile.³Departamento Neurología y Neurocirugía Hospital Clínico de la Universidad de Chile.⁴Laboratorio de Neurobiología del Stress, Centro de Neurobiología y Plasticidad Cerebral, Facultad de Ciencias, Universidad de Valparaíso.⁵Instituto de Ciencias de la Salud Universidad de O'Higgins.

18) Aerial binocular strip visual stimulation triggers defensive responses in the Octodon degus.

Lopez-Jury L¹, Deichler A¹, Mpodozis J¹, Marín G^{1,2}, ¹Departamento de Biología, Facultad de Ciencias, Universidad de Chile.²Facultad de Medicina , Universidad Finis Terrae.

20) Cognitive effort modulates otoacoustic emissions in individuals with high working memory capacity.

Marcenaro B^{1,2}, Delano P², López V³, ¹Departamento de Neurociencias, Facultad de Medicina, Pontificia Universidad Católica de Chile.²Departamento de Neurociencia, Facultad de Medicina, Universidad de Chile.³Departamento de Psicología, Facultad de Psicología, Pontificia Universidad Católica de Chile.

22) Human intracranial EEG activity during a visuospatial working memory task.

Medel V¹, Valdés J¹, Follet B¹, Kahane P², Lachaux J³, Ossandón T¹, ¹Psiquiatría, Medicina, Pontificia Universidad Católica de Chile.²Neurology Grenoble-Alpes University.³Brain Dynamics and Cognition, INSERM U1028 - CNRS UMR5292, Lyon University. (Sponsored by Funded By: Anillo ACT1414, Fondecyt 1140996.)

24) Wave V latency of the Auditory Brainstem Response as a biomarker of working memory performance in healthy elders.

Morales R¹, Leiva A¹, Espinoza M¹, Martínez M¹, Soto A¹, Eléspuru K¹, Délano P¹, Delgado C¹, ¹Neurociencias Universidad de Chile.

26) Neural correlates of attentional networks in preschool children with and without attentional deficit hyperactivity disorder symptoms.

Oyarzún F¹, Rojas-Barahona C², Aboitiz F¹, ¹Psiquiatría , Medicina, Pontificia Universidad Católica de Chile.²Educación, Educación, Pontificia Universidad Católica de Chile.

28) Severity of some depressive symptoms can predict deep transcranial magnetic stimulation (dTMS) treatment efficacy.

Peña F¹, Linsambarth S¹, Cornejo F¹, Stehberg J¹, ¹Laboratorio de Neurobiología Universidad Andrés Bello. (Sponsored by FONDECYT 1160986)

30) Effect of Chronic Unpredictable Stress on 2-4 Hz Oscillations in the Basolateral Amygdala during Fear Memory Retrieval.

Pérez-Valenzuela C¹, Arriagada M¹, Dagnino-Subiabre A¹, ¹Laboratory of Stress Neurobiology, Center for Neurobiology of Brain Plasticity, Institute of Physiology, Faculty of Sciences, Universidad de Valparaíso.

32) In Vivo Recording in the Rat Dorsomedial Prefrontal Cortex During Fear Conditioning and Retrieval of Fear Memory.

Ramírez M¹, Dagnino-Subiabre A¹, ¹Laboratorio de Neurobiología del Estrés, Facultad de Ciencias, Universidad de Valparaíso.

34) Medial olivocochlear efferent feedback effects in Knockin alpha9-nicotinic cholinergic subunit in young and older mice.

Terreros G¹, Boero L², Silva S³, Gomez-Casati M E^{2,4}, Delano P^{3,5}, ¹Instituto de Ciencias de la Salud Universidad de OHiggins.²Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, "Dr. Héctor N Torres" CONICET-UBA.³Departamento de Neurociencia, Facultad de Medicina, Universidad de Chile.⁴Instituto de Farmacología , Facultad de Medicina , Universidad de Buenos Aires.⁵Departamento de Otorrinolaringología Hospital Clínico de la Universidad de Chile.

36) Reduced power in alpha and theta bands in ADHD children during a visuo-spatial working memory task.

Valdés J¹, Ihnen J¹, Medel V¹, Ossandón T¹, ¹Neurodynamics of Cognition Lab, Department of Psychiatry - Medical School Pontificia Universidad Católica de Chile.

38) The role of visual cortex in self-generated thoughts: evidence from event-related potentials and fMRI functional connectivity.

Villena-Gonzalez M¹, Wang H², Sormaz M², Margulies D³, Jefferies E², Smallwood J², Rodriguez E², ¹Laboratorio de Neurodinámica, Escuela de Psicología, Pontificia Universidad Católica de Chile.²Department of Psychology/York Neuroimaging Centre University of York.³Max Planck Research Group for Neuroanatomy & Connectivity Max Planck Institute for Human Cognitive and Brain Sciences. (Sponsored by We Acknowledge Support From CONICYT-PCHA/ Doctorado Nacional/2014-21140290 To MV, European Research Council (WANDERINGMINDS?646927) To JS And FONDEQUIP Grant EQM120027 And FONDECYT Grant 1120752 To ER)

40) Therapeutic effect of stem cells in a sporadic Alzheimer's disease rat model.

Zappa Villar M F¹, Morel G R¹, Trípoli L S¹, Lopez Hanotte J¹, García M G², Reggiani P C¹, ¹School of Medical Sciences - INIBIOLP National University of La Plata.²School of Biomedical Sciences - Gene Therapy Lab Austral University.



42) Comparison of Different Diffusion Approximation Implementations in a Conductance-Based Model of Slow Wave Parabolic Bursting.

Maidana J^{1,4}, Gatica M², Nicolis O¹, Orio P^{3,4}, ¹Instituto de Estadística , Facultad de Ciencias, Universidad de Valparaíso.²Departamento de Matemática, Facultad de Ciencia, Universidad de Santiago de Chile.³Instituto de Neurociencia, Facultad de Ciencias, Universidad de Valparaíso.⁴Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by JPM Is Recipient Of A PhD Grant FIB-UV From UV, PO Is Partially Founded By Grants Fondecyt 1130862 (ACT-1113), AC3E (FB0008 Conicyt, Chile). The CINV)is A Millennium Institute Supported By The Millennium Scientific Initiative Of The Ministerio De Economía)

44) Is chaos making a difference? Synchronization transitions in chaotic and nonchaotic neuronal networks.

Xu K¹, Orio P², ¹Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, University of Valparaíso,Chile.²Instituto de Neurociencia, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by KX Is Funded By Proyecto Fondecyt 3170342. PO Is Partially Funded By The Advanced Center For Electrical And Electronic Engineering (FB0008 Conicyt, Chile). The Centro Interdisciplinario de Neurociencia de Valparaíso (CINV) Is A Millennium Institute Suppor)

46) Long term effects of LL exposure during lactation on metabolic and circadian system.

Palma M¹, Osnaya Ramirez R I², Escobar C², ¹Anatomy, Facultad de Medicina, UNAM.²Anatomia, Medicina, UNAM.

48) Searching for a Reelin-like protein in *Drosophila melanogaster* and its associated signaling pathway.

Rojo F¹, Marzolo M P¹, Campusano J¹, ¹Biología Celular y Molecular, Ciencias Biológicas, Pontificia Universidad Católica de Chile

50) RETIRADO

52) Characterization of mitochondria in response to spinal cord injury in Xenopus laevis.

Cavieres J¹, Lee-Liu D², Eisner V³, Larrain J¹, ¹Laboratory of Developmental Biology and Regeneration, Facultad de Ciencias Biológicas, Center for Aging and Regeneration- CARE Chile UC, P. Universidad Católica de Chile.²Laboratory of Neuronal and Cellular Dynamics, Facultad de Ciencias, Geroscience Center for Brain Health and Metabolism (GERO), Universidad de Chile.³Mitochondrial Communication and Function Laboratory, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile.

54) Motor effects of non-invasive spinal cord stimulation in a parkinsonian animal model.

Gallegos S¹, Alamos F², Martinez A³, Fuentes R⁴, ¹Neuromodulation and Control motor Lab, Medicina, Universidad de Chile.²BNI Pontificia Universidad Católica d Chile.³Facultad Ciencias Fisicas y Matematicas Universidad de Chile.⁴Departamento de Neurociencias, Medicina, Universidad de Chile.

56) Increased eaat3 expression in forebrain elicits ocd relevant behaviors.

Henríquez F¹, Delgado C², Utreras E³, Cisternas M⁴, Murphy D L⁵, Chavez A², Moya P R⁶, ¹Laboratorio de Neurogenética, Ciencias, Universidad de Valparaíso.²Neurociencias, Ciencias, Universidad de Valparaíso.³Ciencias Universidad de Chile.⁴Fisiología, Ciencias, Universidad de Valparaíso.⁵NIMH NIH.⁶Laboratorio de neurogenética Universidad de Valparaíso.

58) Behavioral characterization of a schizophrenia-related dysbindin mutant: possible contribution of the serotoninergic system.

Hidalgo S¹, Castro C¹, Campusano J¹, ¹Biología Celular y Molecular, Neurogenética de la Conducta, Ciencias biológicas , Pontificia Universidad Católica De Chile.



60) Electrophysiological effects of non-invasive spinal cord stimulation in parkinsonian animal model.

Alamos F¹, **Martinez A**², Gallegos S³, Fuentes R⁴, ¹Biomedical Neuroscience Institute, Facultad de Medicina, Pontificia Universidad Católica de Chile.²Biomedical Neuroscience Institute, Ciencias Fisicas y Matematicas, Universidad de Chile.³Biomedical Neuroscience Institute, Facultad de Medicina, Universidad de Chile.⁴Depto. de Neurociencia, Facultad de Medicina, Universidad de Chile.

62) Interactions between epinephrine and corticosterone on the availability of insular β-adrenergic receptors and the modulation of anxiety.

Palma F¹, Rojas S¹, Cornejo F¹, Tamburini G¹, Bahamonde T¹, Stehberg J¹, ¹Laboratorio de Neurobiología Universidad Andrés Bello. (Sponsored by FONDECYT 1160986)

64) Palmitic acid-mediated Free Fatty Acid Receptor 1 (FFAR1) activation stimulates ERK1/II and JNK and reduces insulin sensitivity in hypothalamic neurons.

Toledo-Valenzuela L¹, Hernández-Cáceres M P¹, Ávalos Y¹, Morselli E¹, ¹Physiology Department, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile.

66) Role and mechanisms of action of DYN-A2-17 in food intake in PVN.

Barrientos T¹, Alvarez B¹, Perez-Leighton C^{1,2}, ¹Center for Integrative Medicine and Innovative Science (CIMIS), Facultad de Medicina, Universidad Andrés Bello.²Department of Food Science Nutrition, Food Science Nutrition, University of Minnesota.

68) How my hippocampus know where you are?.

Fuentealba Y¹, **Valdés J L**¹, ¹Departamento de Neurociencias, Facultad de Medicina, Universidad De Chile.

70) ATP mediates the respiratory response to hypercapnia in the caudal medulla.

Gómez K¹, Eugenin J¹, ¹Biología, Química y Biología, Universidad de Santiago de Chile. (Sponsored by Supported By Fondecyt 1171434)

72) Pro-inflammatory cytokines and reactive oxygen species in the nucleus of the solitary tract of hypertensive rats induced by chronic intermittent hypoxia.

Oyarce M P¹, Arias P¹, Iturriaga R¹, ¹Fisiología, Ciencias Biológicas, Pontificia Universidad Católica de Chile. (Sponsored by Fondecyt 1150040)

74) Effect of exercise on hippocampal neural dynamics during acquisition and consolidation of memory in rats.

Grinspun N¹, Fuentealba Y¹, Valdés J¹, ¹Neurociencias, Medicina, Universidad de Chile. (Sponsored by BNI: ICM P09-015-F CENEM: ICM P10-001-F CONICYT PhD. Scholarship)

76) An endogenous inhibitor of calcium /calmodulin-dependent kinase II is up-regulated in the hippocampus after the induction of long-term potentiation.

Astudillo D¹, Palma V¹, Sanhueza M¹, ¹Departamento de Biología, Facultad de Ciencias, Universidad de Chile. (Sponsored by Funded By FONDECYT Grant 1140700)

78) Microtubule-associated protein 1B (MAP1B)-deficient neurons show structural presynaptic deficiencies in vitro and altered presynaptic physiology.

Bodaleo F¹, Montenegro-Venegas C², Heriquez D², Court F³, Gonzalez-Billault C^{2,4,5}, ¹Departamento de Biología, Facultad de Ciencias, Universidad de Chile.²Departamento de Biología Universidad de Chile.³Center for Integrative Biology Universidad Mayor.⁴for Research on Aging The Buck Institute.⁵Geroscience Centre for Brain Health and Metabolism FONDAP.

80) Cortical GABAergic system follows an abnormal trajectory of neurodevelopment in FXS.

Cea-Del Rio C¹, Nuñez-Parra A², Zuñiga N1, Tobar H¹, ¹CIBAP, Facultad de Ciencias Medicas, Universidad de Santiago de Chile.²Laboratorio de Neurociencia de Sistemas, Instituto de Ciencias Biomedicas, Universidad Autónoma de Chile.

82) Temperature-dependence of activation parameters in a potassium channel from an antarctic limpet.

Ferrada J¹, Barria J², Juanchuto N¹, Ugarte G¹, Madrid R¹, Pertusa M¹, Rojas P¹, ¹Departamento de Biología, Química y Biología, Universidad de Santiago de Chile.²Departamento de Biología., Química y Biología, Universidad de Santiago de Chile.



84) Axons provide the secretory machinery for trafficking of voltage-gated sodium channels in peripheral nerve.

González C^{1,2}, Cornejo V^{1,2}, Diaz P^{1,2}, Hetz C^{1,2}, Couve A^{1,2}, ¹Neurociencias, Medicina, Universidad de Chile.²Biomedical Neuroscience Institute (BNI), Medicina, Universidad de Chile. (Sponsored by ICM P-09-015F, FONDECYT REGULAR 1170307 And FONDECYT POSTDOCTORADO 3160666.)

86) Presynaptic Dlg regulates the calcium dynamics in synaptic boutons of *Drosophila melanogaster*, through the traffic and membrane localization of Cacophony and dPMCA.

Köhler A¹, Lopez E², Sierralta J³, ¹Programa Doctorado Ciencias Biomédicas; Departamento Neurociencia, BNI, Facultad de Medicina, Universidad de Chile, Universidad de Chile.²Laboratorio de Neurobiología Celular y Molecular, Departamento Neurociencia, BNI, Facultad de Medicina , Universidad de Chile.³Neuroscience Deparment, Program of Physiology and Biophysics, ICBM and Biomedical Neuroscience Institute (BNI), Facultad de Medicina , Universidad de Chile.

88) Study of the cholinergic and octopaminergic signals contributing to olfactory information processing in *Drosophilamelanogaster* Antennal Lobe.

Leyton V¹, Campusano J², ¹Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.²Departamento de Biología Celular y Molecular, Ciencias Biológicas, Pontificia Universidad Católica de Chile.

90) Mechanism of hypercapnia-induced D-serine release from brainstem astrocytes.

Olivares M J¹, Beltrán-Castillo S¹, Contreras R¹, Zúñiga G¹, Von Bernhardi R², Eugenín J¹, ¹Biología, Química y Biología, Universidad de Santiago de Chile.²Neurología Pontificia Universidad Católica de Chile. (Sponsored by Fondecyt Grant 1130874, Fondecyt Grant 1131025, Fondecyt Grant 1141132, Conicyt Grant 21140669.)

92) Pannexin 1 channels blockade mitigates synaptic plasticity deficits in Alzheimer's disease model.

Ponce D¹, Gajardo I¹, Silva G¹, Muñoz P¹, Ardiles A O¹, ¹Escuela de Medicina, Medicina, Universidad de Valparaíso.

94) Age-related changes in the activation of canonical and non-canonical TGF β pathways contributing to the pathogenesis of Alzheimer's Disease.

Rojas-Vidal C¹, Cornejo F¹, Von Bernhardi R¹,
¹Department of Neurology, Faculty of Medicine, Pontificia Universidad Católica de Chile. (Sponsored by This Study Is Supported By Fondecyt Grant 1171645 (RvB))

96) Characterization of intrinsic oscillatory behavior of CA1 pyramidal neurons in a rat model of blood-brain barrier dysfunction-induced epileptogenesis.

Vera J^{1,2}, Lippmann K^{1,3}, Alcayaga J²,¹Grass Laboratory Marine Biological Laboratories, Woods Hole.²Departamento de Biología, Facultad de Ciencias, Universidad de Chile.³Carl-Ludwig-Institute for Physiology, Medical Faculty, University of Leipzig.

98) Electrical epidural stimulation disentangles and rearranges oscillatory activity of supraspinal motor cortices in a model of parkinsonism.

Astudillo C², Petersson P¹, Fuentes R²,
¹Experimental Medical Science, Medicine, Lund University.²Neurociencia, Medicina, Universidad de Chile.

100) Atlastin regulates the intracellular trafficking of synaptic vesicles, independent of BMP signaling, in *Drosophila melanogaster* motor neurons.

Bertin F^{1,2}, Sierralta J^{1,2}, Couve A^{1,2},¹Departamento de Neurociencias, Facultad de Medicina, Universidad de Chile.²Biomedical Neuroscience Institute (BNI), Facultad de Medicina, Universidad de Chile. (Sponsored by CONICYT 21150594, ICMP09015F)

102) Schwann cells and Pericytes: Defense and repair at the dentin pulp interface.

Cadiz B¹, Schmachtenberg O¹, Couve E²,
¹Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso.²Instituto de Biología, Facultad de Ciencias, Universidad de Valparaíso. (Sponsored by Supported By FONDECYT 1141281.)



104) Context modulates early visual cortex and motor performance during a visuomotor adaptation task.

Herrero J^{1,2,4}, Burgos P³, Vergara R⁴, Maldonado P⁴,

¹Departamento de Neurociencia, Facultad de Medicina , Universidad de Chile.²Escuela de Kinesiología, Facultad de Medicina, Universidad Finis Terrae.³Departamento de Kinesiología, Facultad de Medicina, Universidad de Chile.⁴Biomedical Neuroscience Institute, Facultad de Medicina, Universidad de Chile.

106) Glycine receptor β subunit: a critical target for pain sensitization.

Mariqueo T¹, Ferrada J², Argandoña Y³, Solorza J³, Arenas M³, ¹Escuela de Medicina Universidad de Talca.²Química y Biología Universidad de Santiago de Chile.³Bioinformática Universidad de Talca.

108) Synchrony of neural oscillations in the olfactory system of rainbow trout (*Oncorhynchus mykiss*).

Olivares J¹, Orio P², Canales-Johnson A³, Valdés J⁴, Schmachtenberg O¹, ¹Laboratorio de Fisiología Sensorial, CINV Millenium Institute, Ciencias, Universidad de Valparaíso.²Laboratorio Neurociencia Computacional, CINV Millenium Institute, Ciencias, Universidad de Valparaíso.³MRC Cognition and Brain Sciences Unit University of Cambridge.⁴Centro de Neurociencia Social y Cognitiva Universidad Adolfo Ibáñez.

110) Characterization of melanopsin-driven pupillary responses in *Octodon degus*, a natural animal model for aging and neurodegeneration.

Palanca-Castan N¹, Neira D¹, Palacios A¹, ¹Centro Interdisciplinario de Neurociencia de Valparaíso Universidad de Valparaíso.

112) Spatio-temporal characterization of the feedback signals mediating stimulus selection in the optic tectum of the pigeon.

Reynaert B¹, Lopez-Jury L¹, Letelier J¹, Mpodozis J¹, Marín G^{1,2}, ¹Biología, Ciencias, Universidad de Chile.²Medicina, Medicina, Universidad Finis Terrae.

114) Functional connectivity self-regulation of cerebellum and primary motor areas with real-time fMRI neurofeedback.

Vargas P^{1,2,3}, Sitaram R^{2,3,4,5}, Sepúlveda P⁶, Montalba C¹, Rana M^{2,3}, Torres R², Tejos C^{1,7}, Ruiz S^{2,3,5}, ¹Biomedical Imaging Center Pontificia Universidad Católica de Chile.²Department of Psychiatry, Faculty of Medicine, Pontificia Universidad Católica de Chile.³Laboratory for Brain-Machine Interfaces and Neuromodulation Pontificia Universidad Católica de Chile.⁴Institute for Biological and Medical Engineering Pontificia Universidad Católica de Chile.⁵Institute of Medical Psychology and Behavioral Neurobiology University of Tübingen.⁶Institute of Cognitive Neuroscience (ICN) University College London.⁷Department of Electrical Engineering, Faculty of Engineering, Pontificia Universidad Católica de Chile. (Sponsored by CONICYT/FONDECYT Postdoctorado 3150391, CONICYT/FONDECYT Regular 1171313, CONICYT/FONDECYT Regular 1171320 And CONICYT-PIA-Anillo ACT1416)

116) The avian visual DVR indeed contains hidden laminae.

Weiss-Garrido C¹, Fernández-Colleman S¹, Fernández M¹, Marín G¹, Mpodozis J¹, ¹Departamento de Biología, Facultad de Ciencias, Universidad de Chile.

Tuesday, October, 3th

⌚ 08:30-10:30 SYMPOSIUM 7: Stress, memory, anxiety and food intake
Chair: Jimmy Stehberg
Room: Abtao

⌚ 08:30-09:00 In Vivo Recording in the Basolateral Amygdala During the Development of Anhedonic Behavior.
Dagnino-Subiabre A¹, Pérez C¹, ¹Laboratory of Stress Neurobiology, Center for Neurobiology of Brain Plasticity, Institute of Physiology, Faculty of Sciences, Universidad de Valparaíso. (Sponsored by This Work Was Funded By FONDECYT Grant 1141276 And Anillo De Ciencia Y Tecnología Grant ACT1403 To Alexies Dagnino-Subiabre)

⌚ 09:00-09:30	Interaction between stress and fear memory: Implications for a traumatic memory?. Molina V¹ , ¹ Instituto de Farmacología Experimental Universidad Nacional de Córdoba.
⌚ 09:30-10:00	Impact of hypothalamic astroglial hemichannels on food intake and energy homeostasis. Martin C¹ , ¹ Biologie Fonctionnelle et Adaptative Université Paris Diderot.
⌚ 10:00-10:30	The role of the Insular cortex in anxiety, and mediating the effects of stress hormones in anxiety. Stehberg J¹ , ¹ Laboratorio de Neurobiología, Centro de Investigaciones Biomédicas, Universidad Andrés Bello
⌚ 08:30-10:30	SYMPOSIUM 8: Cellular and molecular approaches to understand nervous system functions. Chair: Christian González-Billault Room: Inio
⌚ 08:30-09:00	Development, Evolution and Function of commissural systems. Chedotal A¹ , ¹ Institut de la Vision Universite Pierre et Marie Curie.
⌚ 09:00-09:30	Pre- and postsynaptic functions of the microtubule associated protein 1B. González-Billault C¹ , ¹ Biology, Sciences, Universidad de Chile.
⌚ 09:30-10:00	The Integrated Stress Response in Neurodegeneration. Osorio L1, Muñoz N1, Jerez C1, Matus S¹ , ¹ Cell Biology Fundacion Ciencia & Vida.
⌚ 10:00-10:30	Modeling neurodegenerative diseases using iPSC. Zeng, X. The Buck Institute for Research on Aging, Novato, USA

X④ 09:30- 13:30 Extensión en Educación en el Congreso.

Liceo Galvarino Gallardo, Castro, X Región.(1er a 4to medio)- **Devia, Christ, PhD.** Titulo: "**Gente DeMente**" (Hallazgos científicos relevantes en neurociencias)-
Palacios, Ismael, PhD. Titulo: "**Qué significa ser científico en Chile? Una mirada desde las neurociencias**"
- **Villena, Mario, PhD.** Titulo: "**Curiosidades de la percepción visual**"

X④ 10:30-11:00 COFFEE BREAK

X④ 11:00-12:30 ROUND TABLE: Neurociencia y extensión en Chiloé.

Chair: Jorge Campusano

Dr. Benjamin Suarez, Instituto de Ciencias Médicas, Facultad de Medicina, Universidad de Chile.

Dra. Mónica Vásquez, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile.

Dr. Carlos Moreno, Hospital de Castro

Dr. Omar Vejar, Hospital de Castro

Room: Inio

X④ 12:30-14.30 LUNCH

X④ 14:30-16:30 SPECIAL YOUNG SCIENTIST SYMPOSIUM

Chairs: Jorge Vera-Juan Bacigalupo

Room: Inio

X④ 14:30-15:00 Selective RVLM C1 neuron ablation improves cardiac sympathetic control in heart failure rats.

Andrade D¹, Toledo C², Lucero C²,
Díaz H², Arce-Alvarez A², Del Rio R¹, ¹Lab. Cardiorespiratory Control Pontificia Universidad Católica de Chile.²Center of Biomedical Research Universidad Autónoma de Chile.

⌚ 15:00-15:30

Wnt5a stabilizes AMPA receptors in hippocampal neurons, causing neuroprotection against A β oligomers.

Montecinos-Oliva C^{1,2}, Choquet D², Inestrosa N¹, ¹Department of Cellular and Molecular Biology, Faculty of Biological Sciences, Pontificia Universidad Católica De Chile.²Laboratory of Dynamic of the Synapse, Interdisciplinary Institute for Neuroscience (IINS), Université de Bordeaux.

⌚ 15:30-16:00

The axonal trans-Golgi network controls membrane availability of cold-sensitive TRPM8 ion channels in peripheral nerve endings.

Cornejo V H¹, Carolina G¹, Matias C², Maria P², Rodolfo M², Andrés C¹, ¹Departamento de Neurociencia, Facultad de Medicina, Universidad de Chile.²Departamento de Biología, Facultad de Química y Biología, Universidad de Santiago de Chile.

⌚ 16:00-16:30

Axonal degeneration is regulated by lipid metabolism in Drosophila.

Sanhueza M^{1,2}, Court F^{1,2}, ¹Geroscience Center for Brain Health and Metabolism FONDAP.²Center for Integrative Biology, Faculty of Sciences, Universidad Mayor.

⌚ 16:30-17:00

COFFEE BREAK

⌚ 17:00-19:00

SYMPOSIUM 9: From the retina to the CNS: Role of neuromodulatory systems.

Chair: Oliver Schmachtenberg
Room: Inio

⌚ 17:00-17:30

Tell me how you live, and I will tell you how your retina will be.

Rosenstein R¹, ¹Human Biochemistry, School of Medicine, University of Buenos Aires.

- ⌚ 17:30-18:00** **Physiological and pathological NO signaling in the retina.**
Schmachtenberg O¹, Vielma A¹, ¹Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso.
- ⌚ 18:00-18:30** **Neuromodulation of synaptic transmission in the retina.**
Chavez A¹, ¹Centro Interdisciplinario de Neurociencias, Instituto de Neurociencias, Facultad de Ciencias, Universidad de Valparaíso.
- ⌚ 18:30-19:00** **Selective NMDAR-dependent regulation of dendritic inhibition in the cortex.**
Chiu C¹, Higley M², ¹Instituto de Neurociencia, Facultad de Ciencias, Universidad de Valparaíso.²Neuroscience Yale University.
- ⌚ 19:00-20:00** **SOCIEDAD CHILENA DE NEUROCIENCIA AWARD LECTURE**
Humberto Maturana R. Facultad de Ciencias, Universidad de Chile
Host: Patricio Rojas
Room: Inio
- ⌚ 20:00-** **DINNER AND DANCING**

Auspiciadores





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