

CHILEAN SOCIETY FOR CELL BIOLOGY

XXXI ANNUAL MEETING

October, 22 – 26, 2017

Puerto Varas, Chile

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CENTRO DE INVESTIGACIÓN BIOMEDICA, UNIVERSIDAD DE LOS ANDES

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**CHILEAN SOCIETY FOR CELL BIOLOGY
XXXI ANNUAL MEETING**

**OCTOBER 22-26, 2017
PUERTO VARAS**

P R O G R A M

SUNDAY, OCTOBER 22, 2017

09:00 – 13:30 Registration
Convention Center Foyer Petrohué

13:00 – 14:30 Lunch

14:30 – 16:00 Opening Remarks
Puerto Rosales Room
Chair: Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

PLENARY LECTURE “LUIS IZQUIERDO FERNANDEZ”

Chilean Society for Cell Biology
Chair: Gonzalo Yévenes, U. de Concepción

ROLE OF GLYCINE RECEPTORS ON ETHANOL BEHAVIOR. Aguayo LG, University of Concepcion, Concepcion, Chile.

16:00 – 16:30 Coffee Break – Exhibitors
Puerto Varas Room

16:30 – 18:00 Oral Presentations I
Puerto Rosales Room
Chairs: Lorena Varela, Universidad Nacional Andrés Bello
María Isabel Yuseff, P. Universidad Católica de Chile

16:30 Wnt5a promotes neuronal differentiation and development of adult neural progenitor cells. Sebastian B. Arredondo¹, Fernanda Guerrero¹; Joaquin Jensen-Flores¹; Andrea Herrera-Soto¹; Sebastian Santibáñez¹; Alejandro Oñate-Ponce²; Pablo Henny²; Manuel Varas-Godoy³; Nibaldo C. Inestrosa⁴ and Lorena Varela-Nallar¹. ¹Centro de Investigaciones Biomédicas (CIB), Fac. Ciencias Biológicas y Fac. de Medicina, Universidad Andrés Bello; ²Lab. Neuroanatomía, Dept. Anatomía, Fac. Medicina, P. Universidad Católica de Chile; ³Centro de Investigación Biomédica, Fac. Medicina, Universidad de los Andes; ⁴Centro de Envejecimiento y Regeneración (CARE), Fac. Ciencias Biológicas, P. Universidad Católica de Chile.

16:45 Caveolin-1-containing exosomes from metastatic breast cancer cells contain adhesion proteins and enhance migration in recipient cells. Campos A^{1,2,3}, Lobos-González L^{1,2,3}, Bustos R², Varas-Godoy M⁴, Salomon C⁵, Quest A.F.G^{1,3}. ¹Laboratorio Comunicaciones Celulares, CEMC, Programa de Biología Celular y Molecular, Facultad de Medicina, Universidad de Chile, ²Fundación Ciencia & Vida, ³Advanced Center for Chronic Diseases (ACCDiS), ⁴Laboratorio Biología de la Reproducción, Centro de Investigación Biomédica, Facultad de Medicina, Universidad de los Andes, ⁵Exosome Biology Laboratory, UQ Centre for Clinical Research, Australia.

17:00 Spatial-temporal control of proteasome activity controls B cell polarity at the immune synapse. Ibañez-Vega Jorge¹, Del Valle Felipe¹, Sáez Juan Jose¹, Soza Andrea², Yuseff Maria-Isabel¹. ¹CARE Chile-UC. Departamento de Biología Celular y Molecular. Facultad de Ciencias. Pontificia Universidad Católica de Chile. ²Facultad de Ciencias. Universidad San Sebastian.

17:15 PKA phosphorylates Rab Coupling Protein (RCP) controlling its interaction with EGFR: Potential implications in endocytic trafficking. Jonathan Barra-Carrasco^{1,2} and Alfonso

González^{1,2}. ¹Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. ²Centro de Biología Celular y Biomedicina, Facultad de Medicina y Facultad de Ciencia, Universidad San Sebastián, Santiago, Chile.

- 17:30 High ATP release through pannexin channel induce an inflammatory state associated to insulin resistance in skeletal muscle fibers from obese mice. Jorquera G.¹, Meneses-Valdés R.¹, Llanos P.^{1,2}, Casas M.¹, Jaimovich E.¹. ¹CEMC, Faculty of Medicine, Universidad de Chile. ²ICOD, Dental Faculty, Universidad de Chile.**
- 17:45 Copper exposure induced innate immune cell migration and calcium responses in the olfactory sensory system of the zebrafish, *Danio rerio*. M. Fernanda Palominos and Kathleen E. Whitlock. Centro Interdisciplinario de Neurociencia de Valparaíso (CINV), Universidad de Valparaíso.**
- 18:30 – 20:30 SYMPOSIUM “NEW INSIGHTS IN BRAIN AGEING AND REJUVENATION”**
CISNe – ReBrain, Universidad Austral de Chile
Puerto Octay Room
Chairs: Maite Castro, Universidad Austral de Chile
Francisco J. Rivera, Universidad Austral de Chile

CISNe - ReBrain Symposium: NEW INSIGHTS IN BRAIN AGEING AND REJUVENATION. Maite Castro, Francisco J. Rivera, Universidad Austral de Chile.

MECHANISMS OF BRAIN AGING AND REJUVENATION. Saul Villeda^{1,2}. ¹Department of Anatomy, University of California San Francisco, San Francisco, CA, USA; ²The Eli and Edythe Broad Center for Regeneration Medicine and Stem Cell Research, San Francisco, CA, USA.

AGEING AND CNS REMYELINATION. Alerie Guzmán de la Fuente. Wellcome Trust and MRC Cambridge Stem Cell Institute (Franklin lab), University of Cambridge, Cambridge CB20AH, UK.

PHARMACOLOGICAL REJUVENATION: FACT OR FICTION? Ludwig Aigner. Institute of Molecular Regenerative Medicine, Spinal Cord Injury and Tissue Regeneration Center Salzburg, Paracelsus Medical University Salzburg, Austria.

SYMPOSIUM “CELLULAR METABOLISM: FROM CELL FITNESS TO UNHEALTHY CONDITIONS”
Centro de Investigación Biomédica, Universidad de los Andes
Facultad de Medicina, Universidad de Chile
Frutillar Room
Chairs: Fabiola Osorio, Universidad de Chile
Karina Pino-Lagos, Universidad de los Andes

METABOLIC CONTROL OF DENDRITIC CELL-DRIVEN T CELL POLARIZATION. Bart Everts. Department of Parasitology, Leiden University Medical Center, Leiden, The Netherlands.

NAD REDOX METABOLISM CONTROLS T CELL FUNCTION THROUGH GLYCOLYSIS. Ulf H. Beier^{1,2}, William Quinn², Jing Jiao¹, Wayne W. Hancock^{1,2}, Joseph A.

Baur². ¹Children´s Hospital of Philadelphia, Philadelphia, USA. ²University of Pennsylvania, Philadelphia, USA.

MITOCHONDRIAL TRANSFER TO IMMUNE CELLS: STEM CELL GIVEAWAYS OR REVOLUTION OF THE ENDOSYMBIOTIC THEORY? Khoury M^{1,2}. ¹Cells for Cells, ²Facultad de Medicina, Universidad de los Andes.

20:30 Dinner

22:00 – 23:00 PLENARY LECTURE “FEDERICO LEIGHTON PUGA”

Fundación Chilena para Biología Celular

Puerto Rosales Room

Chair: Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

ENLISTING REPROGRAMMING AND iPSCs TO UNDERSTAND CELLULAR DIVERSITY AND HUMAN DISEASE. Kristin Baldwin, Department of Neuroscience, The Scripps Research Institute, La Jolla, CA , USA.

MONDAY, OCTOBER 23, 2017

08:00 **Poster Mounting Session I: N° 1 to N° 82**
Puerto Varas Room

09:00 – 10:30 **Oral Presentations II**
Puerto Rosales Room

Chairs: Mariana Casas, Universidad de Chile
Alvaro Lladser, Fundación Ciencia & Vida

09:00 **Characterization of epigenetic and behavioral alterations in ALS and FTD mouse models.** **Nur Jury**¹, Sebastian Abarzua^{1,2}, Ivan Diaz¹, Miguel V. Guerra¹, Pablo Martínez¹, Paula Cubillos¹, Estibaliz Ampuero¹, Martin Montecino^{1,2}, Lorena Varela-Nallar¹, Brigitte van Zundert¹. ¹Centro de Investigaciones Biomédicas, UNAB, Chile; ²FONDAP Center for Genome Regulation, Chile.

09:15 **Analysis and modulation of cathepsin B and D in liver damage in *in-vitro* and *in-vivo* models of Niemann-Pick type C disease.** **Oyarzún J.E.**, Acuña M., Castro J., Zanlungo S. Departamento de Gastroenterología, Facultad de Medicina, Pontificia Universidad Católica de Chile.

09:30 **Vaccines targeting dermal dendritic cells generate skin-resident memory CD8+ T cells that protect against cutaneous melanoma.** **Felipe Gálvez-Cancino**¹, Ernesto Lopez¹, Evelyn Menares¹, Marcela Alcantara², Ximena Díaz¹, Sofía Hidalgo¹, Pablo Caceres¹, Juliana Idoyaga² Alvaro Lladser¹. ¹Laboratory of Gene Immunotherapy, Fundación Ciencia & Vida. ²Idoyaga Lab, Department of Microbiology and Immunology, Stanford University, USA.

09:45 **Retrograde axonal signaling by BDNF promotes dendritic Branching in a Dynein-dependent manner.** **Moya-Alvarado Guillermo** and Bronfman C Francisca. MINREB and CARE, UC, Department of Physiology, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile, Santiago, Chile.

10:00 **Functional cross-talk between the dihydropyridine receptor and Pannexin-1 in skeletal muscle.** **Jaque-Fernández F.**¹, Jorquera G.¹, Troc-Gajardo J.L.¹, Pietri-Rouxel F.², Allard B.³, Buvinic S.¹, Jaimovich E.¹, Jacquemond V.³ and Casas M.¹. ¹ICBM, Facultad de Medicina, Universidad de Chile. ³Institut NeuroMyoGène, CNRS UMR 5310, INSERM U1217, France.

10:15 **Oriented hepatocyte division controls lobule geometry during liver regeneration.** **Fabián Segovia-Miranda**¹, Hernán Morales-Navarrete¹, Kirstin Meyer¹, Sarah Seifert¹, Hidenori Nonaka², Yannis Kalaidzidis¹, Marino Zerial¹. ¹Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany. ²Rohto Pharmaceutical, Tokyo, Japan.

10:30 – 12:30 **Poster Viewing Session I: 1-82 Odd Numbers**
Puerto Varas Room

01. **α -synuclein increases the opening of unopposed channels formed by Cx43 and Panx1 in astrocytes.** **Esteban F. Díaz** and Juan A. Orellana. Departamento de Neurología. Escuela de Medicina. Pontificia Universidad Católica de Chile.

03. **TRPM4 expression on murine Foxp3⁺Treg cells stimulated with IL-33.** **Vergara, D**¹, Álvarez C¹, Oyarce K¹, Gajardo T¹, Cerda O^{2,3} and Pino-Lagos K¹. ¹Centro de Investigación Biomédica, Facultad de Medicina, Universidad de los Andes. ²Programa de Biología Celular y Molecular, ICBM, Facultad de

Medicina, Universidad de Chile. ³Millennium Nucleus of Ion Channels-Associated Diseases (MiNICAD).

- 05. TLR-2 as potential tolerogenic marker for dexamethasone- modulated and monophosphoryl lipid a-activated dendritic cells.** Jaxaira Maggi^{1,2}, Paulina García¹, Gabriela Ubilla¹, Katina Schinnerling¹, Alejandro Sepúlveda³, Ricardo Verdugo³, Diego Catalán¹, Juan Carlos Aguillón^{1,2}. ¹IRTGroup, Programa Disciplinario de Inmunología, Facultad de Medicina, Universidad de Chile. ²Millennium Institute on Immunology and Immunotherapy. ³Chilegenómico, Programa de Genética Humana, Facultad de Medicina, Universidad de Chile.
- 07. Thy-1 induced breast cancer cell migration involves a Ca²⁺/hemichannel/ATP/P2X7 receptor-signaling axis.** Marianne Brenet, Samuel Martinez, Andrew F.G. Quest, Lisette Leyton. Cellular Communication Laboratory. Advanced Center for Chronic Diseases (ACCDiS). Center for Molecular Studies of the Cell (CEMC), Institute of Biomedical Sciences. Faculty of Medicine, University of Chile.
- 09. The Wnt receptor Frizzled-9 modulates the post-synaptic maintenance of the vertebrate neuromuscular junction.** Diego Zelada, Francisca Bermedo and Juan Pablo Henríquez. Department of Cell Biology and CMA Bio-Bio, University of Concepcion, Concepción, Chile.
- 11. The salivary peptide histatin-1 promotes endothelial cell adhesion, migration and angiogenesis.** Pedro Torres¹, Jorge Díaz², Maximiliano Arce³, Patricio Silva¹, Pablo Mendoza¹, Pablo Lois⁴, Alfredo Molina¹, Gareth Owen³, Verónica Palma⁴ and Vicente A. Torres^{1,2}. ¹Institute for Research in Dental Sciences, Faculty of Dentistry, Universidad de Chile. ²Advanced Center for Chronic Diseases (ACCDiS). ³Faculty of Biological Sciences and the Faculty of Medicine, Pontificia Universidad Católica de Chile. ⁴Faculty of Sciences, Universidad de Chile.
- 13. The knock-out of GOLPH3 in breast cancer cell lines affects the size and distribution of lysosomes, and the maturation of the hydrolase Cathepsin D.** Viviana Cavieres^{1,3}, Alejandro Rojas^{2,3}, Patricia V. Burgos^{1,3,4} and Gonzalo A. Mardones^{1,3,4}. Departments of ¹Physiology and ²Medicine, and ³Center CISNe, Universidad Austral Chile, Valdivia, and ⁴Centro CEBICEM, Universidad San Sebastián, Santiago, Chile.
- 15. The intracellular domain of glycine receptor is essential to confer sensitivity to allosteric modulators.** Moraga-Cid G, Burgos CF, Espinoza MP, Muñoz-Montesino C. Marileo AM, San Martín BP, Yévenes GE. Department of Physiology, University of Concepcion, Chile.
- 17. The co-repressor complex mSin3A/HDAC1 is involved in the down-regulation of CRT2 target genes during B cell differentiation.** Yennyfer Arancibia¹, Constanza Cárcamo¹ & Angara Zambrano¹. Instituto de Bioquímica y Microbiología. Facultad de Ciencias. Universidad Austral de Chile.
- 19. Synergic cooperation between hypoxia and TGF-β1 induce CTGF in myotubes in a cellular type specific manner: a recapitulation of a fibrotic environment.** Roger Valle-Tenney and Enrique Brandan Laboratorio de Diferenciación Celular y Patología. Pontificia Universidad Católica de Chile. Santiago, Chile.
- 21. Specific neurite rescue by Wnt ligands in hippocampal neurons treated with C59, a specific inhibitor of PORCN.** Jasson A. Espinoza-Caicedo¹, Viviana I. Torres¹, Juan A. Godoy¹, Nivaldo C. Inestrosa^{1,2}. ¹Center for Aging and Regeneration (CARE), Pontificia Universidad Católica de Chile. ²CEBIMA.
- 23. SPARC induces a mesenchymal phenotype, increasing motility and invasive capacity of prostate cancer cells.** López F, Castellón EA, Contreras HR. Department of Basic and Clinic Oncology. Faculty of Medicine. University of Chile.

25. **SNAP23 regulates antigen extraction and presentation by promoting lysosome secretion at the Immune synapse of B lymphocytes.** Martina Alamo, Maria I. Yuseff. Department of Cellular and Molecular Biology. Faculty of Sciences. Pontificia Universidad Católica de Chile. Santiago, Chile.
27. **Simvastatin sensitizes ovarian cancer spheroids to metronomic chemotherapy decreasing ALDH isoforms.** Liberona MF^a, Kato S.^a, Orellana R.^{a,b}, and Cuello M.^a. ^aDivision of Obstetrics and Gynecology, Medicine Faculty, Pontificia Universidad Católica de Chile, ^bHealth Faculty, Universidad Bernardo O'Higgins.
29. **Searching for a Reelin-like protein in *Drosophila melanogaster* and its associated signaling pathway,** Francisca Rojo, Jorge M. Campusano & María Paz Marzolo. frrojo@uc.cl, Departamento de Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
31. **Rubicon-like dysregulation during ALS pathogenesis.** Arcos, J¹, Beltrán, S¹, Nassif, M¹, Vicencio, E¹, Leslie Bargsted², Soledad Matus³, Medinas, D², Hetz, C², Manque, P¹, Woehlbier, U¹. ¹Center of Integrative Biology, Universidad Mayor, Chile. ²Brain Neuroscience Institute (BNI), University of Chile, Chile. ³Fundacion Cienca Vida, Chile.
33. **Role of glial cells during spinal cord regeneration in *Xenopus laevis*.** Gabriela Edwards-Faret¹, Arantxa Cebrian-Silla², Emilio Méndez-Olivos¹, Karina González^{1,3}, José Manuel García-Verdugo², Juan Larraín¹. ¹Center for Aging and Regeneration, Pontificia Universidad Católica de Chile; ²Universidad de Valencia; ³Universidad Arturo Prat.
35. **RhoA and actin cytoskeleton control the functional balance between gap junction channels and hemichannels.** Jaime Maripillán, Oscar Jara, Fanny Mombousse, John Ewer, and Agustín D. Martínez. Centro Interdisciplinario de Neurociencia de Valparaíso (CINV), Instituto de Neurociencia, Facultad de Ciencias, Universidad de Valparaíso, Valparaíso, Chile.
37. **Reticulon-4B is associated with cytoskeletal structures in the transdifferentiation of fibroblasts to myofibroblast.** Rodríguez-Peña M¹, Leiva S¹, Vásquez C¹, Quest AFG¹, Torres V², Lavandero S^{1,3}. ¹Advanced Center for Chronic Diseases (ACCDiS) & Center for Molecular Studies of the Cell (CEMC), Faculty of Chemical and Pharmaceutical Sciences & Faculty of Medicine, University of Chile. ²Department of Basic and Communitarian Sciences, Faculty of Dentistry, University of Chile. ³Department of Internal Medicine (Cardiology Division), University of Texas Southwestern Medical Center, Dallas, TX.
39. **Regulation of glucose metabolism in neurons by Wnt3a and adiponectin, a possible molecular link between Alzheimer's disease and obesity.** Pedro Cisternas and Nibaldo C. Inestrosa. Centro de Envejecimiento y Regeneración (CARE-UC), Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile, Chile.
41. **Regulation of antigen presentation by B cells: Impact of autoimmunity.** Jonathan Lagos^{1,2}, Claudia Cárcamo¹ and María-Isabel Yuseff². Department of Cellular and Molecular Biology. ¹Faculty of Medicine. ²Faculty of Biological Sciences. Pontificia Universidad Católica de Chile. Santiago, Chile.
43. **Reduction of ABCA1 expression increases cellular cholesterol content promoting insulin resistance in skeletal muscle.** Sánchez-Aguilera P.¹, Díaz-Vegas A.², Campos C.², Cerda-Kohler H.², Contreras A.¹, Hidalgo C.^{2,3,4} Jaimovich E.^{2,3}, Llanos P.^{1,2}. ¹ICOD, Facultad de Odontología, Universidad de Chile. ²CEMC, Facultad de Medicina, Universidad de Chile. ³ICBM, Facultad de Medicina, Universidad de Chile. ⁴BNI, Facultad de Medicina, Universidad de Chile.
45. **PTEN inhibition prevent the synaptic damage through restore the synaptic form of NMDA receptors and PI3K/Akt signaling pathway in a murine model of mild traumatic brain injury.**

Francisco J. Carvajal & Waldo Cerpa. Laboratorio de Función y Patología Neuronal, Departamento de Biología Celular y Molecular, Pontificia Universidad Católica de Chile.

- 47. Pro-inflammatory cytokines regulate expression of ATF4 and ATF6 α by promoting changes in DNA methylation of their gene promoters in salivary glands from Sjögren's syndrome patients.** **Patricia Carvajal**, María-José Barrera, Sergio Aguilera, Carolina Lagos, Daniela Jara, Sergio González, Isabel Castro, Nicolás Albornoz, Claudio Molina, Cecilia Leyton and María-Julietta González. ICBM-Facultad de Medicina-Universidad de Chile.
- 49. PKA-mediated phosphorylation of the S346 residue within the glycine receptor α 3 subunit intracellular domain impairs the ion channel conductance.** **Gonzalo E. Yévenes**, Victoria P. San Martín, Cesar O. Lara, Ana M. Marileo, Gustavo Moraga-Cid. Department of Physiology, University of Concepcion, Chile.
- 51. Phosphatidic acid levels regulate Notch activation through Sanpodo trafficking during binary cell fate decision in Sensory Organ Precursor cells of *Drosophila melanogaster*.** **Medina-Yañez, I.**^{1,2}, Vega-Macaya, F.^{1,2}, Manieu, C.^{1,2}, Valdivia, M.^{1,2}, Olgún, P.^{1,2}. ¹Program of Human Genetics, ICBM, ²Department of Neuroscience, BNI, Faculty of Medicine, Universidad de Chile.
- 53. Persistence of epigenome editing in hippocampal neurons: design of light-sensitive constructs and use of optogenetics.** **Paula Cubillos**¹, Estibaliz Ampuero¹, Elvis Acevedo^{1,2}, Martín Montecino^{1,2}, Brigitte van Zundert¹. ¹Center for Biomedical Research, UNAB. ²FONDAP Center for Genome Regulation, Chile.
- 55. Paracrine effect of the endothelium on prostate cancer cells.** Verónica Torres-Estay¹, Patricia Fuenzalida¹, **Catalina Asencio**¹, Marta Verdugo², Carolina Achá², Arantxa Urrestanazu², Xavier Figueroa¹, Paula Sotomayor², Viviana Montecinos¹, Julio Amigo¹, and Alejandro Godoy^{1,3}. ¹Pontificia Universidad Católica de Chile, ²Universidad Andrés Bello, ³Roswell Park Cancer Institute, Buffalo, NY.
- 57. Pannexin 1 channel closure by a PKA- dependent pathway.** **Ximena López**, Rosalba Escamilla, Juan C. Sáez, Departamento de Fisiología, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile and Instituto Milenio, Centro Interdisciplinario de Neurociencias de Valparaíso, Chile.
- 59. Olig2 expression in the olfactory epithelium of the zebrafish suggest novel population of progenitors.** **Pablo González**, Eugene Tine, Kathleen Whitlock. Genetics and Developmental Biology Lab, CINV, Universidad de Valparaíso, Valparaíso, Chile.
- 61. Nilotinib impairs skeletal muscle differentiation by promoting cell proliferation.** **Oswaldo Contreras**, Maximiliano Villarreal and Enrique Brandan. Departamento de Biología Celular y Molecular and Center for Aging and Regeneration (CARE-ChileUC), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile.
- 63. Nifedipine treatment improves muscle function in aged mice restoring normal ATP release.** Carlos Chacón, Andrea del Campo, Gonzalo Jorquera, Enrique Jaimovich and **Mariana Casas**, ICBM, Facultad de Medicina, Universidad de Chile.
- 65. Neuroprotective effect of Chronic Spinal Cord Stimulation (SCS) in a α -synuclein model of Parkinson's disease.** **Alejandra V. Parra**^{1,2,3,4}, René Vidal^{2,3} & Rómulo Fuentes^{1,3,4}. ¹Laboratorio Control Motor y Neuromodulación, Departamento de Neurociencias, Facultad de Medicina, Universidad de Chile. ²Centro de Biología Integrativa, Universidad Mayor, Chile. ³Instituto Neurociencia Biomédica - BNI. ⁴Núcleo Milenio Biología de Enfermedades Neuropsiquiátricas - NuMIND.

- 67. Cellular signaling induced by extracellular lactate in adult skeletal muscle: possible role on redox homeostasis.** ^{1,2}Cerda-Kohler H., ^{1,2}Henríquez-Olguín C., ¹Valladares D., ¹Campos C., ¹Casas M, ^{1,3}Llanos P. and ¹**Jaimovich E.** ¹Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile, Independencia 1027, Santiago, Chile. ²Laboratorio de Ciencias del Ejercicio, Unidad de Fisiología Integrativa, Clínica MEDS, Santiago, Chile. ³Institute for Research in Dental Science, Facultad de Odontología, Universidad de Chile.
- 69. Necroptosis in Parkinson's disease: a new mechanism involved in axonal degeneration. Oñate M.** ^{1,2}, Hetz C. ^{1,3} and Court F.A. ^{2,3}. ¹Institute of Biomedical Sciences, University of Chile. ²Center for Integrative Biology, Universidad Mayor. ³FONDAP Geroscience Center for Brain Health and Metabolism.
- 71. Mesenchymal Stem Cells impair the metabolic reprogramming of naïve T-CD4 cells into proinflammatory Th1 and Th17 cells. Contreras RA** ^{1,2}, Martínez-Viola L¹, Elizondo R¹, Paredes MJ¹, Djouad F², Luz-Crawford P¹. ¹Laboratorio de Inmunología Celular y Molecular, Facultad de Medicina Universidad de los Andes, Santiago, Chile. ²Unité INSERM 1183, Montpellier, France.
- 73. Melanocortin system activation prevents mitochondrial and antioxidant impairment induced by binge alcohol consumption in adolescents. Angie K. Torres** ^{1,2}, Cheril Tapia-Rojas^{1,2}, Waldo Cerpa² and Rodrigo A. Quintanilla^{1,2}. ¹Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile.
- 75. Isomers of tocopherol evoke different responses either in cytosolic calcium increases or in antioxidant impact in living Caco-2 cells. Miltha Hidalgo,** Vania Rodríguez, Omar Porras. Cellular Biology Lab. INTA-Universidad de Chile.
- 77. Inhibition of MCT2 expression in anorexigenic hypothalamic neurons. Órdenes P,** Elizondo-Vega R, Salgado M, Escobar K, García-Robles MA. Departamento de Biología Celular, Universidad de Concepción, Chile.
- 79. Inhibition of CTGF/CCN2 improves ALS skeletal muscle phenotype and delays disease progression. David González,** ¹Daniela Rebolledo, ¹Felipe Court, ¹Waldo Cerpa, ²Brigitte van Zundert and ¹Enrique Brandan. ¹P. Universidad Católica de Chile, ²Universidad Andrés Bello.
- 81. Increased localization of spleen tyrosine kinase (Syk) in lipid rafts of *in vitro* TCR/CD3-CD28 activated lupus T cells. Luque N** ^{1,4}, Abdoel N¹, Rojas H², Rodríguez M¹, Vásquez G³ and Blasini A¹, ¹CNER. HUC, Venezuela, ²IDI, UCV, Venezuela, ³ICIG, U-Antioquía. ⁴U de los Andes, Chile.

13:00 – 15:00 Lunch

15:00 – 16:15 YOUNG SCIENTIST AWARD

GRUPO BIOS AND SBCCH

Puerto Rosales Room

Chairs: Arturo Yudelevich, GrupoBIOS

Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

GUIDING THE TR(IP): NEW REGULATORY MECHANISMS OF TRPM4 CHANNELS IN CELL MIGRATION. Cerda Oscar. ^{1,2}. ¹Programa Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile, Santiago 8380453, Chile, ²Millennium Nucleus of Ion Channels-Associated Diseases (MiNICAD).

16:30 – 17:30 PLENARY LECTURE**Puerto Rosales Room****Centro de Investigación Biomédica, Facultad de Medicina, Universidad de los Andes****Chair: Karina Pino-Lagos, Universidad de los Andes**

A NEW IMMUNE TARGET FOR THE TREATMENT OF CANCER AND AUTOIMMUNITY, VISTA. Randolph J. Noelle. Department of Microbiology and Immunology, Geisel School of Medicine at Dartmouth, Norris Cotton Cancer Center, Lebanon, New Hampshire, USA.

17:30 – 19:30 Poster Viewing Session I: 1-82 Even Numbers**Puerto Varas Room**

- 02. *In vivo* heavy ethanol exposure induces neuroinflammation and opening of Cx43 hemichannels and Panx1 channels in hippocampal astrocytes. Gonzalo I. Gómez¹, Valeria C. Labra¹, Nicole Salgado¹, Waldo Cerpa² and Juan A. Orellana¹.** ¹Departamento de Neurología and ²Departamento de Biología Celular, Pontificia Universidad Católica de Chile.
- 04. Identification of novel Rab5GEFs induced by hypoxia. Solange Rivas^{1,3}, Patricio Silva¹, and Vicente A. Torres^{1, 2}.** ¹Institute for Research in Dental Sciences, Faculty of Dentistry, Universidad de Chile. ²Advanced Center for Chronic Diseases (ACCDiS), Universidad de Chile. ³School of Medical Technologist, Universidad San Sebastián.
- 06. Hypoxia inhibits genes involved in adipogenic and osteogenic differentiation of human mesenchymal stem cells. Patricia V. Jorquera,** Cecilia Vergara, Ana María Pino, Juan Pablo Rodríguez. Laboratory of Cell Biology, Instituto de Nutrición y Tecnología de los Alimentos (INTA), Universidad de Chile.
- 08. Hyperbaric oxygen therapy promotes stem cell proliferation and wound-healing in mice. Casanova-Maldonado I.¹ Peña-Villalobos I.^{1,2}, Lois P.¹, Pizarro C.¹, Prieto C.¹, Lattus J.³, and Palma V.¹.** ¹CTYBD Laboratory. Universidad de Chile. ²Ecologic Science Department, Universidad de Chile. ³Obstetrics and Gynaecology Service, Hospital Tisné-Brousse.
- 10. Huntingtin and Rab27a are involved in the secretion of exosomes from astroglial cells. Eduardo Papic^{1,4},** Adriana Covarrubias-Pinto^{1,4}, Alexis González^{3,4}, Patricia V. Burgos^{3,4}, Alejandro Rojas^{2,4}, Maite A. Castro^{1,4}. ¹Instituto de Bioquímica y Microbiología. ²Instituto de Medicina, ³Instituto de Fisiología, ⁴CISNe, UACH.
- 12. GOLPH3 is connected functionally to MRP1 in the resistance to multiple drugs in T98G cells of glioblastoma multiforme. Charlotte Luchsinger¹,** Marcelo Aguilar¹, Patricia V. Burgos^{1,2} and Gonzalo A. Mardones^{1,2}. ¹Department of Physiology and Center CISNe, Universidad Austral Chile, Valdivia, and ²Centro CEBICEM, Universidad San Sebastián, Santiago, Chile.
- 14. Generation of an adenovirus to decrease the expression of the DAGL α enzyme in tancytes. Palma A.¹, Konar-Nie M¹, Ordenes P¹, Salgado M¹, García-Robles MA¹, Sepúlveda FJ^{1,2}.** ¹Laboratorio de Biología Celular, ²Departamento de Biología Molecular, Facultad de Ciencias Biológicas, Universidad de Concepción.
- 16. Fatty Acid GPR expression and functionality in GC-1 and GC-2 cell lines. Berrios-Amaro C.¹,** Urriola-Muñoz P.¹, Lagos-Cabré R.², Moreno R.D.², Osses N.E.¹ & Reyes J.G.¹. ¹Instituto de Química, PUCV, Chile. ²Departamento de Endocrinología y Reproducción, PUC, Chile.

18. **Extracellular vesicles derived from ovarian cancer sphere increase tumorigenic properties of low invasive ovarian cancer cells** Albano Cáceres-Verschae, Sofia Cubillos, Sebastian E. Illanes, Manuel Varas-Godoy. Laboratorio Biología de la Reproducción, Centro de Investigación Biomedica, Facultad de Medicina, Universidad de Los Andes.
20. **Extracellular ATP increases protein synthesis in skeletal muscle through activation of Akt/mTOR/p70S6K/4EBP1 pathway.** Camilo Morales^{1,2,3}, Manuel Arias-Calderón^{1,2}, Nadia Hernández¹, Enrique Jaimovich² and Sonja Buvinic¹. ¹Molecular Cell Biology Laboratory, Institute for Research in Dental Sciences, Faculty of Dentistry. Universidad de Chile. ²Center for Molecular Studies of the Cell, ICBM, Faculty of Medicine, Universidad de Chile. ³Department of Health Sciences, Faculty of Health, Pontificia Universidad Javeriana, Cali, Colombia.
22. **Expression and localization of IIG9 in the ventricular wall during embryonic and postnatal brain development.** Víctor Baeza, María José Oviedo, Francisca Espinoza, Fernando Martínez, Francisco Nualart, Katterine Salazar. Laboratory of Neurobiology and Stem Cells, NeuroCellT, Center for Advanced Microscopy CMA BIOBIO, University of Concepcion.
24. **Endocytosis of epidermal growth factor receptor (EGFR) through ERK-regulated non-clathrin-dependent route induced by phosphatidic acid.** Metz Claudia^{1,2}, Oyanadel Claudia², Cancino Jorge² and González Alfonso^{1,2}. ¹Centro de Envejecimiento y Regeneración, Facultad de Ciencias Biológicas. Pontificia Universidad Católica de Chile. ²Centro de Biología Celular y Biomedicina, Facultad de Ciencia y Facultad de Medicina, Universidad San Sebastián, Santiago, Chile.
26. **Effects of Estradiol (E2) and Estetrol (E4) in epithelial and mesenchymal endometriotic cells.** Orellana R^{ab}, Kato S^a, Liberona MF^a, Cuello M^a. ^aObstetrics Division and Gynecology, Medicine Faculty, Pontificia Universidad Católica de Chile, ^bHealth Faculty, Universidad Bernardo O'Higgins.
28. **Effect of overexpression of Lin28 in the spinal cord of frog *Xenopus laevis*.** Mauricio A. Herrera and Juan Larraín. CARE, MINREB, Department of Cellular and Molecular Biology, Pontificia Universidad Católica de Chile.
30. **Effect of new inhibitors of c-Abl kinase on cholesterol accumulation and TFEB activation in Niemann Pick - C disease models.** Rivera P.¹, Contreras PS¹, Castro J.², Tapia P.¹, Dulcey A.³, Ferrer M.³, Marugan J.³, Alvarez A.R.¹, Zanlungo S.². ¹Biological Sciences and ²Medicine Faculty, Pontificia Universidad Católica de Chile and ³NCGC-NIH, Bethesda MD, USA.
32. **Effect of binge drinking consumption on the expression profile of genes associated with mitochondrial dynamics.** Alfonso González¹, Sebastián Sepúlveda¹, Gonzalo Jorquera², César Osorio Fuentealba^{1,3}. ¹Laboratorio de Biología Molecular, Celular y Metabolismo, Departamento de Kinesiología, UMCE, Santiago, Chile. ²Laboratorio de Fisiología Celular del Músculo, ICBM, U. de Chile. ³Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile.
34. **Effect of AVP on mTOR pathways and gene expression under high glucose condition in vascular smooth muscle cells.** C. González, N. Flores-Ponce, C. Villanueva and C.B. González. Department of Physiology, Universidad Austral de Chile, Valdivia, Chile.
36. **Effect of ascorbic acid on the expression and distribution of vitamin C transporters in neural stem cells and neuroblasts.** Magdalena R., Espinoza F., Salazar K., Nualart F. Laboratory of Neurobiology and Stem Cells, NeuroCellT; Center for Advanced Microscopy, CMA BIO BIO, Faculty of Biological Sciences, Concepción University.

- 38. Differential expression of ET_A and ET_B in the progression of prostate cancer.** Torres MJ., Castellón EA, Contreras HR. Laboratory of Molecular and Cellular Andrology. Department of Basic and Clinic Oncology. Faculty of Medicine. University of Chile. Santiago, Chile.
- 40. Differential distribution of vitamin C transporters in human glioblastoma cells, which only uptake oxidized ascorbic acid.** Eder Ramírez, Luciano Ferrada, Fernando Martínez, Katterine Salazar, Francisco Nualart. Laboratory of Neurobiology and Stem Cells, NeuroCellT, Center for Advanced Microscopy, CMA Bio-Bio, University of Concepción, Chile.
- 42. Developing a mice model to study the pathogenic role of anti-ribosomal P antibodies and their cross-target neuronal-surface P-antigen (NSPA) in the kidney.** D.Valenzuela³, M. Bravo-Zehnder^{1,3}, A.Jurado¹, F.Segovia¹, C.Vio¹, G.Méndez², L.Massardo^{1,3} and A.González^{1,3}. ¹Centro de Envejecimiento y Regeneración, Facultad de Ciencias Biológicas and ²Departamento de Anatomía Patológica, Facultad de Medicina, Universidad Católica de Chile. ³Centro de Biología Celular y Biomedicina, Facultades de Ciencia y Medicina, Universidad San Sebastián. Santiago, Chile.
- 44. Cystic Echinococcosis shows low molecular diversity in cattle from Chile.** Felipe Corrêa^a, Anna Paola Pipia^b, Antonio Varcasia^b, Carroll Stoores^a, Mauricio Jiménez^a, Christian Hidalgo^a, Rodolfo Paredes^a. ^aEscuela de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andres Bello, Santiago, Chile. ^bLaboratorio di Parassitologia, Ospedale Didattico Veterinario, Dipartimento di Medicina Veterinaria, Università degli Studi di Sassari, Sassari, Italy.
- 46. Cross-talk between the c-Abl kinase and RIPK3 pathway-involved in neuronal necroptosis in Gaucher disease.** Yáñez MJ¹, Klein AD², Betta K³, Fuenzalida K³, Alvarez AR^{4,5} and Zanlungo S¹. ¹Facultad de Medicina, ⁴Facultad de Ciencias Biológicas, ⁵CARE-CHILE-UC, Pontificia Universidad Católica de Chile, ²Facultad de Medicina, Universidad del Desarrollo, ³Instituto de Nutrición y Tecnología de Alimentos Dr. Monckeberg, INTA, Universidad de Chile, Santiago, Chile.
- 48. Characterization of the role of atlastin and its genetic modifiers in the neuromuscular junction and motor axons of adults *Drosophila melanogaster*.** Andrés Ibacache^{1,2}, Noemi Candia^{1,2,3}, Franco Vega-Macaya^{1,2,3}, Andres Couve^{1,2}, Patricio Olgún^{1,2,3} and Jimena Sierralta^{1,2}. ¹Department of Neuroscience, ²BNI, ³Program of Human Genetics, ICBM, Faculty of Medicine, Universidad de Chile.
- 50. Characterization of the effect triggered by soybean meal ingestion on intestinal epithelium integrity in zebrafish.** Solís C.J. and Feijóo C.G. Laboratorio Inmunología en Peces, Facultad de Ciencias Biológicas, Universidad Andrés Bello.
- 52. Characterization of RSPO/LGR pathway in adult neural progenitor cells.** Muriel D. Mardones, Miguel V. Guerra, Lorena Varela-Nallar. Centro de Investigaciones Biomédicas (CIB), Facultad de Ciencias Biológicas y Facultad de Medicina, Universidad Andrés Bello.
- 54. Characterization of Ric-8A as a novel cell migration regulator.** Beyer A¹, Lennon-Duménil AM², Henriquez JP¹, Torrejon M¹. ¹Faculty of Biological Sciences, University of Concepcion, Chile. ²Immunity and Cancer U932, Institut Curie, France.
- 56. Characterization of an animal model of type 2 diabetes with potential application in the evaluation of new therapies for diabetic neuropathy.** De Gregorio C., Santapau D., González K., Ezquer M., Campero M., Ezquer F. Centro de Medicina Regenerativa, Facultad de Medicina, Clínica Alemana-Universidad del Desarrollo.
- 58. Cerebral dopamine neurotrophic factor (CDNF) attenuates endoplasmic reticulum stress-induced apoptosis.** Arancibia D.² Zamorano P.¹ and Andrés M.E.². ¹Biomedical Department, Faculty Faculty of

Health Sciences, University of Antofagasta. ²Department of Cellular and Molecular Biology, Faculty of Biological Sciences, Pontifical University Catholic of Chile.

- 60. Cellular and molecular characterization of bone regeneration in a traumatic skull injury model.** David Muñoz, Hector Castillo, and Sylvain Marcellini. Department of Cell Biology, University of Concepción, Chile.
- 62. Cell-nonautonomous control of the UPR.** Gabriela Martínez^{1,2,3}, A.M. Vega-Letter⁴, J.P. Vivar^{2,3}, F. Guerrero^{2,3}, F. Carrión⁴, F. Court¹ and C. Hetz^{2,3,5,6}. ¹Center for Integrative Biology, Universidad Mayor. ²Biomedical Neuroscience Institute, ³Center for Molecular Studies of the Cell, ICBM, University of Chile. ⁴Immunology Translational Program, ICIM, Faculty of Medicine, Universidad del Desarrollo. ⁵Buck Institute for Research on Aging, USA. ⁶Department of Immunology and Infectious diseases, HSPH, Harvard University, USA.
- 64. Cdk5/p35 delays the P2X2/3R desensitization in PC12 cells and mouse trigeminal neurons.** Rodrigo Sandoval¹, Patricio Castro², Pablo Lazcano¹, Nicolás Pinto¹, Christian González-Billault^{1,3}, Claudio Coddou² and Elías Utreras¹. ¹Department of Biology, Faculty of Sciences, Universidad de Chile. ²Faculty of Medicine, Universidad Católica del Norte. ³GERO, Santiago, Chile.
- 66. Caspase-cleaved tau affects mitochondrial localization and transport in Alzheimer's disease.** Erick Vergara H, Alejandra Aranguiz, Rodrigo A. Quintanilla. Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, and Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile.
- 68 c-Abl tyrosine kinase regulates autophagy in models of Alzheimer's disease.** Catalina de la Fuente^{1,2}, Rilda León^{1,2,4}, Silvana Zanlungo^{3,4}, Alejandra Álvarez^{1,2}. ¹Cellular and Molecular Biology Department, Biological Sciences Faculty, ²CARE-Chile-UC, ³Department of Gastroenterology, ⁴Medicine Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile.
- 70. c-Abl regulates myogenic transcriptional activity factors in myoblasts.** Natasha Blanco, Fabián Montecino, Alejandra Álvarez and Hugo Olgún. Molecular and Cell Biology Department, Faculty of Biological Sciences, P. Universidad Católica de Chile. Stgo, Chile.
- 72. Bicarbonate secretion is dependent of NBCe1 in airway epithelial cells of the mouse trachea.** Amber R. Philp¹, Ignacio Fernández-Moncada^{1,2}, Génesis Vega^{1,2}, Iván Ruminot¹ & Carlos A. Flores¹. ¹Centro de Estudios Científicos. Valdivia, Chile. ²Universidad Austral de Chile. Valdivia, Chile.
- 74. Axonal degeneration is regulated by lipid metabolism in *Drosophila*.** Sanhueza, M.^{1,2}, Muñoz-Carvajal, F.^{1,2}, & Court, F.^{1,2}. ¹Center for Integrative Biology, Faculty of Sciences, Universidad Mayor, Chile; ²FONDAP Geroscience Center for Brain Health and Metabolism, Chile.
- 76. AP-4 modulates AMPAR Surface expression during synaptic scaling.** Mario Caracci and Maria Paz Marzolo. Pontificia Universidad Católica de Chile.
- 78. Antigen presenting cells and T cells behavior during intestinal inflammation in medaka fish.** Karina Bravo¹, Narges Aghaallaei², Jochen Wittbrodt², Carmen G Feijóo^{1,2}. Facultad de Ciencias Biológicas, Universidad Andres Bello, Chile; Centre for Organismal Studies, Heidelberg University, Germany.
- 80. Analysis of tumor-infiltrating CD8+ T lymphocytes displaying a resident memory phenotype in renal cell carcinoma patients.** Sofía Hidalgo¹, Ernesto López¹, Luciana Oliveira-Cruz¹, Mariela Araya³, Felipe Gálvez-Cancino¹, Vincenzo Borgna^{2,3}, Alvaro Lladser¹. ¹Laboratory of Gene

Immunotherapy, Fundación Ciencia & Vida. Santiago, Chile. ²Servicio de Urología, Hospital Barros Luco Trudeau, Santiago, Chile. ³Andes Biotechnologies, Santiago, Chile.

- 82. Analysis of behavioral response to odorants in a PINK1 -/- zebrafish line.** Allende-Castro, C¹, Borgonovo, J¹., Laliena, A¹., Bandmann, O²., Concha, M.L¹. ¹Laboratory of Experimental Ontogeny, ICBM, University of Chile; Biomedical Neuroscience Institute, Santiago, Chile. ²Institute for Translational Neuroscience, Department of Neuroscience, University of Sheffield, UK.

19:30 – 20:30 PLENARY LECTURE

Puerto Rosales Room

Chair: Juan Larraín, P. Universidad Católica de Chile

NEURAL STEM CELL THERAPY IN SPINAL CORD INJURY: SPINAL CORD “REPLACEMENT” ENABLES HOST AXONAL REGENERATION. Mark H. Tuszynski^{1,2}, Ken Kadoya^{1,3}, Gunnar Poplawski¹, Ephron Rosenzweig¹, Corinne Lee¹, Hiromi Kimamaru¹, Jacob Koffler¹, Dan Gibbs¹, Andrew Adler¹, Eileen Collyer¹, Jennifer Dulin¹, Paul Lu^{1,2}. ¹Department of Neurosciences, University of California – San Diego, La Jolla CA. ²Veterans Administration Medical Center, La Jolla, CA. ^{1,3}Department of Orthopaedic Surgery, Hokkaido University, Sapporo, Japan.

20:30 Dinner

22:00 – 23:00 BEST THESES AWARDS

“FUNDACION CHILENA PARA BIOLOGIA CELULAR”

Puerto Rosales Room

Chairs: Arturo Yudelevich, Fundacion Chilena para Biología Celular

Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

Undergraduate

Marión Rodríguez Corrales

Magister en Bioquímica y Bioinformática, Universidad de Concepción

“Estudio Funcional de Ric-8A Durante la Inducción de las Crestas Neurales en *Xenopus tropicalis*”

Directora: Marcela Torrejón, Facultad de Ciencias Biológicas, Universidad de Concepción

Graduate

Roberto Elizondo Vega

Doctor en Ciencias Biológicas, Mención Biología Celular y Molecular, Universidad de Concepción

“Participación de los Transportadores de Monocarboxilatos Hipotalámicos en la Regulación de la Ingesta Alimenticia”

Directora: María de los Angeles García, Facultad de Ciencias Biológicas, Universidad de Concepción.

TUESDAY, OCTOBER 24, 2017

08:00 **Poster Mounting Session II: N° 83 to N° 161**
Puerto Varas Room

09:00 – 10:30 **Oral Presentations III**
Puerto Rosales Room

Chairs: Alejandra Alvarez, P. Universidad Católica de Chile
Karina Pino-Lagos, Universidad de los Andes

09:00 **PRC2-Ezh1 controls the expression of hippocampal genes: binding of Ezh1 to active promoters and enhancers. Sáez-Venegas MA^{1,2}; Sánchez M^{1,2}; van Zundert B¹; Montecino M^{1,2}.** ¹Center for Biomedical Research, Universidad Andrés Bello. ²FONDAP Center for Genome Regulation.

09:15 **Vitamin C triggers the differentiation of Foxp3+ regulatory T cells with deficient suppressive function in skin-transplanted mice. Karina Oyarce,** Mauricio Campos-Mora, Tania Gajardo, Karina Pino-Lagos. Facultad de Medicina, Universidad de los Andes.

09:30 **Rab11-Binding-Protein (Rab11BP) is involved in Golgi-to-Endoplasmic Reticulum retrograde transport. Beatriz Vásquez^{1,2}, Jorge Cancino², Claudio Retamal^{1,2}, Mindong Ren³, David D. Sabatini³ and Alfonso González^{1,2}.** ¹Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile. ²Centro de Biología Celular y Biomedicina, Facultad de Ciencias and Facultad de Medicina, Universidad San Sebastián, Santiago, Chile. ³Department of Cell Biology, New York University School of Medicine, New York, NY, USA.

09:45 **The non-receptor tyrosine kinase c-Abl participates in the signaling pathway BDNF/TrkB affecting dendritic branching. Chandía-Cristi A.^{1,3}, Bronfman F.C.^{2,3}, Álvarez A.R.^{1,3}.** ¹Cellular & Molecular Biology and ²Physiology Department, Biological Sciences Faculty, ³CARE Chile-UC, Pontificia Universidad Católica de Chile, Santiago, Chile.

10:00 **Targeting MYC through its interaction with NSD3S. Valentina Gonzalez-Pecchi¹, Jinglin Xiong¹, Yuhong Du^{1,2}, Haian Fu^{1,2}.** ¹Department of Pharmacology, and ²Emory Chemical Biology Discovery Center, Emory University, Atlanta, USA

10:15 **Dehydroascorbic acid production induces necroptosis in neuronal cell. Luciano Ferrada** and Francisco Nualart. Laboratorio de Neurobiología y Células Madres, Neuro-CellIT, Centro de Microscopía Avanzada, CMA BIOBIO, Universidad de Concepción, Concepción, Chile.

10:30 – 12:00 **Poster Viewing Session II: 83-161 Odd Numbers**
Puerto Varas Room

83. A CRISPR/Cas9 screen for genes that mediate growth of the zebrafish eye. Leonardo E. Valdivia¹, Julie Plaisancie², Lisa Tucker², Maryam Khosravi², Eirinn Mackay², Mario Sanhueza¹, Felipe A. Court¹, Steve W. Wilson². ¹Center for Integrative Biology, Facultad de Ciencias, Universidad Mayor, Chile. ²Department of Cell and Developmental Biology, University College London, UK.

85. A neuronal source of Slit protein regulates *Drosophila* optic lobe morphogenesis. Lorena Caipo^{1,2}, Tomás Palominos¹, Jimena Sierralta² and Carlos Oliva¹. ¹Department of Cell and Molecular Biology, Faculty of Biological Science, Pontificia Universidad Católica de Chile. ²Biomedical Neuroscience Institute, Department of Neuroscience, Universidad de Chile.

- 87. A simple solution for antibody signal enhancement in immunofluorescence and triple immunogold assays.** Juan B. Villalobos-González^{1,2}, Abraham Rosas-Arellano^{1,2}, Lourdes Palma-Tirado³, Fanis Missirlis⁴, Maite A. Castro^{1,2}. ¹Instituto de Bioquímica y Microbiología, UACH. ²CISNe UACH-Chile, ³Instituto de Neurobiología, UNAM-México. ⁴Departamento de Fisiología, Biofísica y Neurociencias, Cinvestav del IPN-México.
- 89. Activity of mouse masseter muscle increases IL-1 β and IL-6 expression through extracellular ATP signaling.** Carolina Beato¹, Nathalie Vicencio¹, Mariana Casas²; Sonja Buvinic¹. ¹Faculty of Dentistry, Universidad de Chile. ²Faculty of Medicine, Universidad de Chile.
- 91. Acute hyperglycemia alters the cell structure of beta-2-tanocytes from the median eminence during postnatal developmental and aging.** Martínez Fernando, Cifuentes Manuel*, Salazar Katterine, Jara Nery, Albarrán Camila and Nualart Francisco. Department of Cell Biology, Center for Advanced Microscopy CMA BIOBIO, University of Concepcion. *Department of Cell Biology, Genetics and Physiology, and CIBER-BBN, University of Malaga.
- 93. Agonists of Free Fatty Acid Receptor 4 (FFAR4) induce Neutrophils Activation. Possible Role of FFAR4 receptor.** Stefanie Teuber, Ivan Olmo, Pablo Alarcón, Rafael A. Burgos, M. Angelica Hidalgo. Institute of Pharmacology, Universidad Austral de Chile, Chile.
- 95. Altered neuro-angiogenic capacities of hiPSC-derived Neural Stem Cells from schizophrenic patients.** Bárbara Casas¹, Gabriela Vitória², Marcelo Costa², Valeria Díaz¹, Stevens Rehen² and Veronica Palma¹. ¹Laboratory of Stem Cells and Development, Universidad de Chile, Chile. ²Instituto D'Or de Pesquisa e Ensino, Rio de Janeiro, Brasil.
- 97. Amyloid precursor protein proteomic analysis reveals a possible link with initiation of autophagy.** Cristóbal Cerda-Troncoso^{1,2}, Viviana A. Cavieres¹, Gonzalo A. Mardones^{1,2}, Stephanie Miserey-Lenkei³ and Patricia V. Burgos^{1,2}. ¹Department of Physiology, School of Medicine, Universidad Austral de Chile, Valdivia, Chile; ²Centro de Biología Celular y Biomedicina CEBICEM, Universidad San Sebastián, Santiago, Chile; ³Molecular Mechanisms of Intracellular Transport Group, Institut Curie.
- 99. ATP-dependent translocation of glucose transporter 4 in skeletal muscle cells involves GTPase- and cofilin-dependent regulation of actin remodeling.** César Osorio Fuentealba^{1,2}, Mariana Casas Atala³, Enrique Jaimovich³. ¹Laboratorio de Biología Molecular, Celular y Metabolismo, Departamento de Kinesiología, UMCE, Santiago, Chile. ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile. ³Laboratorio de Fisiología Celular del Músculo, ICBM, U. de Chile.
- 101. A β increases P2X2R and potentiates the amyloidogenic pathway.** Godoy P.A., Mennickent D., Saéz-Orellana F., Silva-Grecchi T., Fuentealba J. Physiology Department, Biological Science Faculty, Universidad de Concepción.
- 103. c-Abl kinase in Niemann-Pick type A disease: its implication in the pathogenic mechanisms leading to neurodegeneration.** Marín T¹, De la Fuente C², Acuña M¹, Castro J¹, Burgos P^{3,4}, Alvarez AR², Zanlungo S¹. ¹Medicine Faculty and ²Biological Sciences Faculty CARE-Chile UC, Pontificia Universidad Católica de Chile, ³Medicine Faculty, Universidad Austral de Chile, Valdivia. ⁴Centro de Biología Celular y Biomedicina, Universidad San Sebastián, Santiago, Chile.
- 105. Cellular signaling induced by extracellular lactate in adult skeletal muscle: possible role on redox homeostasis.** Cerda-Kohler H., ^{1,2}Henríquez-Olguín C., ¹Valladares D., ¹Campos C. ^{1,3}Llanos P. and ¹Jaimovich E. ¹Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile, Independencia 1027, Santiago, Chile. ²Laboratorio de Ciencias del Ejercicio, Unidad de Fisiología

Integrativa, Clínica MEDS, Santiago, Chile. ³Institute for Research in Dental Science, Facultad de Odontología, Universidad de Chile.

- 107. Characterization of a complex biofilm *in vitro* model of chronic wounds.** C. Cárdenas, A. Wozniak, T. González, P. Legarraga, P. García, M. Vera, T. Egaña. Instituto de Ingeniería Biológica y Médica, Escuela de Medicina, Pontificia Universidad Católica de Chile.
- 109. Characterization of cachexia developed in mice with chronic liver disease.** Fabián Campos^{1,3}, Johanna Abrigo^{1,3}, Francisco Aguirre^{1,3}, Felipe Simon^{2,3}, Marco Arrese⁴, Daniel Cabrera⁴, Claudio Cabello-Verrugio^{1,3}. ¹Laboratorio de Patologías Musculares, Fragilidad y Envejecimiento; ²Laboratorio de Fisiología Integrativa. Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Santiago, Chile. ³Millennium Institute on Immunology and Immunotherapy. ⁴Departamento de Gastroenterología, Facultad de Medicina, Universidad Católica de Chile.
- 111. Characterization of epigenetic changes in spinal cord astrocytes and neurons in ALS mouse model.** Ivan Díaz¹, Nur Jury¹, Sebastian Abarzua^{1,2}, Pablo Martinez¹, Martin Montecino^{1,2}, Lorena Varela-Nallar¹, Brigitte van Zundert¹. ¹Centro de Investigaciones Biomédicas-UNAB, ²FONDAP-Center for Genome Regulation, Chile.
- 113. Clockwork-like mechanism of neuronal energy flow control.** ^{1,2}Felipe Baeza-Lehnert, ³Aiman Saab, ³Bruno Weber, ¹L. Felipe Barros. ¹Centro de Estudios Científicos (CECs), ²Universidad Austral de Chile, Valdivia, Chile. ³Institute of Pharmacology and Toxicology, University of Zurich, Switzerland.
- 115. Common signatures of physiological aging and aging by neurodegeneration in *Drosophila* models.** Carlos Caris¹, Daniele Capocefalo², Claudia Molina-Fernandez¹, Nelida Lopez-Quilodran¹, Pablo Martinez³, Tommaso Mazza², Vinicius Maracaja-Coutinho¹, María Florencia Tevy¹. ¹Centro de Genómica y Bioinformática, Universidad Mayor. ²Bioinformatics Unit, Mendel Institute, Italy ³Universidad Andrés Bello.
- 117. Contribution of protein *de novo* synthesis to the regulation of the pair rule gene *Tc-odd-skipped*.** Renato A. Pardo, Andres F. Sarrazin. Laboratorio Bioquímica de Sistemas, Instituto de Química, Pontificia Universidad Católica de Valparaíso.
- 119. Cytokines promote Global DNA hypomethylation in salivary glands of Sjögren's syndrome patients.** Carolina Lagos, Isabel Castro, Patricia Carvajal, Daniela Jara, Sergio González, Sergio Aguilera, Claudio Molina, Nicolás Albornoz, María-José Barrera, Cecilia Leyton and María-Julietta González. ICBM-Facultad de Medicina-Universidad de Chile.
- 121. Deleterious mutation in mitochondrial fission protein Mid49 causes impaired mitochondrial dynamics and intracellular calcium homeostasis.** Diego Troncoso¹, Rita Horvath², Verónica Eisner¹. ¹Departamento Biología Celular y Molecular, Pontificia Universidad Católica de Chile. ²Institute of Genetic Medicine, Newcastle University, Newcastle upon Tyne, UK.
- 123. Determination of the presence of Autotaxin in muscle tissue and cells: an essential enzyme in LPA production, a pro-fibrotic factor.** Meilyn Cruz Soca and Enrique Brandan Laboratorio de Diferenciación Celular y Patología. Pontificia Universidad Católica de Chile. Santiago, Chile.
- 125. Development and characterization of an anti-phospho-ECE1c antibody for predicting poor prognosis of colorectal cancer.** Verdugo C.¹, Quezada C.¹, Caamaño E.¹, Soto D.², Díaz D.³, Vásquez A.², Tapia J.C.¹. ¹Cell Transformation Laboratory, Department of Basic and Clinic Oncology, Faculty of Medicine, University of Chile; ²Department of Biotechnology, Instituto Salud Pública, Chile. ³Millennium Institute on Immunology and Immunotherapy.

- 127. Development of a neuroAIDS animal model. Rodrigo Ibarra^{1,3}; Andrés Chávez^{2,3}; Gloria Arriagada^{1,3}.** ¹Departamento de Ciencias Biológicas, Universidad Andrés Bello. ²Facultad de Ciencias, Universidad de Valparaíso. ³Núcleo Milenio Biología de Enfermedades Neuropsiquiátricas, NuMIND.
- 129. Dopamine receptor 3 (D3R) signaling potentiates cytotoxic CD8+ T cell responses. Ornella Chovar-Vera^{1,2}, Ernesto López¹, Felipe Gálvez-Cancino¹, Claudio Figueroa², Rodrigo Pacheco^{2,3*}, Alvaro Lladser^{1*}.** ¹Laboratory of Gene Immunotherapy, Fundación Ciencia & Vida, Santiago, Chile. ²Laboratory of Neuroimmunology, Fundación Ciencia & Vida, Santiago, Chile. ³Universidad Andrés Bello, Santiago, Chile.
- 131. Dual role of eIF2 α -ATF4 pathway in a mouse model of ALS. Luis Osorio^{1,2}, Claudio Hetz², Soledad Matus¹.** ¹Fundación Ciencia & Vida. ²Faculty of Medicine, University of Chile.
- 133. Effect of exposure to odorant phenylethyl alcohol on the gene expression in the olfactory epithelium of zebrafish (*Danio rerio*). Calfún C., Cortés-Campos C, Sive HL, Whitlock KE. Centro Interdisciplinario de Neurociencias de Valparaíso.**
- 135. Effect of fructose on metabolic reprogramming in prostate cancer. Néstor Corro¹, Daniela Carreño¹, Marcia Arredondo¹, Viviana Montecinos¹, Paula Sotomayor², Julio César Cárdenas³, and Alejandro Godoy^{1,4}.** ¹Pontificia Universidad Católica de Chile; ²Universidad Andrés Bello; ³Universidad de Chile; ⁴Roswell Park Cancer Institute, Buffalo, NY.
- 137. Effects of adolescent binge drinking exposure on insulin signaling in skeletal muscle. ^{1,2}Bárbara Pichiñan,** ^{1,2} César Osorio Fuentealba. ¹Laboratorio de Biología Molecular, Celular y Metabolismo, Departamento de Kinesiología, UMCE, Santiago, Chile. ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile.
- 139. Epidrugs treatment increases *C9ORF72* expression in amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD) *in vitro* models. Esteban Quezada^{1,2}, Claudio Cappelli¹, Nur Jury¹, Brigitte van Zundert^{1*}, Martín Montecino^{1,2}.** ¹Center for Biomedical Research, UNAB. ²FONDAP Center for Genome Regulation, Chile.
- 141. Exo70 regulates Cx43-hemichannel activity in HeLa cells expressing Cx43-EGFP. Fuentes Gonzalo¹, Lira Matías², Barra Lucía², Barría Ivan¹, Güiza Juan¹, Zamorano Pedro² and Vega José Luis¹.** ¹Experimental Physiology Laboratory (EP_{hy}L); ²Neurobiology Laboratory, Health Science Faculty & Antofagasta Institute, Universidad de Antofagasta.
- 143. FAM120A - a new protein embedded in the ALS disease network. Vicencio, E¹, Arcos, J¹, Bargsted, L², Matus, S³, Cortez, B¹, Nassif, M¹, Cortez, C¹, Manque, U¹ and Woehlbier, U¹.** ¹Center for Integrative Biology (CIB), Universidad Mayor, Chile. ²Brain Neuroscience Institute (BNI), University of Chile, Chile. ³Fundacion Ciencia & la Vida, Chile.
- 145. Fibroblast growth factor-21 expression is regulated by electrical stimulation and extracellular ATP in skeletal muscle. Manuel Arias-Calderón^{1,2}, Camilo Morales^{1,2}, Nadia Hernández¹, Enrique Jaimovich² and Sonja Buvinic¹.** ¹Molecular Cell Biology Laboratory, Institute for Research in Dental Science. Faculty of Dentistry-Universidad of Chile. ²Center for Molecular Studies of the Cell, ICBM, Faculty of Medicine-Universidad de Chile.
- 147. Functional impact and clinical relevance of MSC mitochondrial transfer to T lymphocytes. Court A¹, Le Gatt A¹, Luz-Crawford P², Kurte M², Ortuzar MA¹, Figueroa F², Khoury M^{1,2}.** ¹CellsforCells; ²Facultad de Medicina, Universidad de los Andes.

- 149. Genetic ablation of *tau* prevents cognitive impairment and mitochondrial stress associated with aging.** Claudia Jara¹, Cheril Tapia-Rojas^{1,2}, Rodrigo A. Quintanilla^{1,2}. ¹Laboratory of Neurodegenerative Diseases, Universidad Autonoma de Chile. ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA).
- 151. Global transcriptional regulatory network activated by iron in *Enterococcus faecalis*.** Mauricio Latorre^a. ^aInstituto de Ciencias de la Ingeniería, Universidad de O'Higgins.
- 153. Gai2/Ric-8A a novel signaling pathway that regulates cranial neural crest cell migration in *Xenopus*.** Villaseca S., Toro-Tapia G., Leal JL, Beyer A., Torrejón, M. Laboratory of Signaling and Development, Department of Biochemistry and Molecular Biology, University of Concepcion.
- 155. Hepatoprotective effect of mesenchymal stem cell-conditioned medium on drug-induced mitochondrial toxicity.** Y. Huang¹, F. Ezquer¹, P. Pedraza¹, A. Elorza² and M. Ezquer¹. ¹Centro de Medicina Regenerativa, Clínica Alemana-Universidad del Desarrollo. ²Center for Biomedical Research, Universidad Andres Bello.
- 157. Hif-1 Regulates *twist1* and *snail1b* Expression During Neural Crest Cells development in zebrafish.** Cristian Marchant, J. Espina, J. Canan, AE Reyes. Universidad Andrés Bello, Facultad de Ciencias Biológicas, Santiago, Chile.
- 159. High content screen identifies the PSMD14 deubiquitinating enzyme as a novel regulator of amyloid precursor protein (APP) metabolism.** Bustamante H.A.¹, Cheuquemilla Y.I.¹, Valenzuela G.E.², Hay R.T.³, Rojas-Fernandez A.⁴ and Burgos P.V.^{1, 5}. ¹Department of Physiology, School of Medicine, Universidad Austral de Chile, Valdivia, Chile; ²Faculty of Science, Universidad Austral de Chile, Valdivia, Chile; ³University of Dundee, United Kingdom; ⁴Department of Medicine & Center for Interdisciplinary Studies on the Nervous System (CISNe), Universidad Austral de Chile, Valdivia, Chile ⁵Centro de Biología Celular y Biomedicina (CEBICEM), Universidad San Sebastián, Santiago, Chile.
- 161. HIV-1 gp120 protein activates Cx43 and Panx1-based unopposed channels and alters intracellular free Ca²⁺ dynamics in astrocytes.** Rosario Gajardo-Gómez and Juan A. Orellana. Departamento de Neurología, Escuela de Medicina, Pontificia Universidad Católica de Chile.

12:45 – 14:15 Lunch

14:15 –16:15 SYMPOSIUM “PRESYNAPTIC PROTEINS, EMERGING NEW FUNCTIONS AND ROLE IN DISEASES”

International Collaboration Project PCI-BMBF – Chile/Germany

Frutillar Room

Chair: Pedro Zamorano, Universidad de Antofagasta

ROLE OF BASSOON IN ORGANIZING PRESYNAPTIC STRUCTURE AND FUNCTION. Eckart D. Gundelfinger, Leibniz Institute for Neurobiology, Magdeburg, Germany.

MODES AND MECHANISMS OF SYNAPTIC VESICLE ENDOCYTOSIS AND RECYCLING. Tolga Soykan, Dmytro Puchkov, Natalia L. Kononenko, and Volker Haucke. Leibniz-Institut für Molekulare Pharmakologie, 13125 Berlin, Germany & Freie Universität Berlin, Faculty of Biology, Chemistry and Pharmacy, 14195 Berlin, Germany.

THE OTHER SYNAPSE: CALCIUM-DEPENDENT EXOCYTOSIS IN THE IMMUNE SYSTEM. Jens Rettig, Center for Integrative Physiology and Molecular Medicine, Saarland University, Homburg, Germany.

SYNAPTIC VESICLE PRIMING PROTEINS IN BRAIN DISORDERS. Nils Brose, Max Planck Institute of Experimental Medicine, Goettingen, Germany.

SYMPOSIUM “CELLULAR AND MOLECULAR ASPECTS OF AGING”

Geroscience Center for Brain Health and Metabolism, Chile

Puerto Octay Room

Chairs: Claudio Hetz, Universidad de Chile

Christian González, Universidad de Chile

THE NEURONAL UNFOLDED PROTEIN RESPONSE (UPR) CONTROLS MAMMALIAN HEALTHSPAN. Felipe Cabral-Miranda, Gabriela Martinez, Brian Kennedy, Giovanni Tamburini, and Claudio Hetz. ¹Center for Geroscience, Brain Health and Metabolism (GERO), Santiago, Chile. ²Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, Santiago, Chile. ³Program of Cellular and Molecular Biology, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. ⁴The Buck Institute for Research in Aging, Novato CA 94945, USA. ⁵Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston MA 02115, USA.

A PRO-PROTEIN CONVERTASE, FURIN 1, MEDIATES THE TOXIC EFFECT OF PATHO-GENIC LRRK2 IN DOPAMINERGIC NEURONS. Elie Maksoud¹, Edward H. Liao¹, Akiko Yanagiya², Megumi Mori¹, Nahum Sonenberg², and Pejmun Haghighi^{1,3}. ¹Buck Institute for Research on Aging, 8001 Redwood Blvd, Novato, CA, 94945, USA. ²Department of Biochemistry and Goodman Cancer Research Center, 1160 Pine Ave. West, Montreal, QC, H3A 1A3, Canada. ³Department of Physiology, McGill University, 3649 Promenade Sir William Osler, Mon-treal, QC, H3G 1Y6, Canada.

GEROSCIENCE: ADDRESSING AGING, THE MAJOR RISK FACTOR FOR MOST CHRONIC DISEASES. Felipe Sierra, Division of Aging Biology, NIA/NIH.

ROLE OF ER-MITOCHONDRIA INTERACTION IN CELLULAR SENESCENCE. Ulises Ahumada^{1,2}, Jonas Chnaiderman³ and Cesar Cardenas^{1,2,4,5}. ¹Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. ²Geroscience Center for Brain Health and Metabolism, Santiago, Chile. ³Virology Program, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. ⁴The Buck Institute for Research on Aging, Novato, CA 94945, USA. ⁵Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106, USA.

16:30 – 17:30 PLENARY LECTURE

Puerto Rosales Room

Chair: Patricio Smith, P. Universidad Católica de Chile

FOXO1 promotes normal but inhibits diabetic wound healing. Dana T Graves. School of Dental Medicine, University of Pennsylvania, USA.

17:30 – 19:30 Poster Viewing Session II: 83-161 Even Numbers

Puerto Varas Room

- 84. Identification of subpopulations of neutrophils in Zebrafish.** Juan Pablo García-López^{1,2}; Cristian Vilos¹; Carmen Gloria Feijóo². ¹Laboratory of Nanomedicine and Targeted Delivery, Facultad de Medicina, Universidad Andres Bello; ²Laboratorio de Inmunología de Peces, Facultad de Ciencias Biológicas, Universidad Andres Bello.

86. **Immune response in bovine *Echinococcus granulosus* hydatid cysts.** Pereira, Ismael; Correa, Felipe; Hidalgo, Christian; Jimenez, Mauricio; Stoore, Caroll; Paredes, Rodolfo. Laboratorio de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andres Bello.
88. **Immunomodulation of T CD4+ lymphocytes by donor-platelet concentrates.** Hernández CJ¹, Maggi J², Larrondo ML³, Barrera J¹, Aguillón JC². ¹Departamento Tecnología Médica, Programa Disciplinario de Inmunología, ²U. de Chile; ³HCUCH.
90. **Impact of intestinal metabolite *p*-cresol on neuronal morphology and electrophysiological parameters.** Sheyla Guzmán¹, Cristina Dorador², Waldo Cerpa³, and Pedro Zamorano¹. ¹Nb-Lab FACSA, ²IA, Universidad de Antofagasta. ³Facultad de Ciencias Biológicas, PUC.
92. **Increased expression of $\alpha v \beta 3$ integrin and Syndecan-4 is controlled by the Rab endocytic pathway in reactive astrocytes.** Jorge Díaz¹, Andrew F.G. Quest¹ and Lisette Leyton¹. ¹FONDAP Advanced Center for Chronic Diseases (ACCDiS). Faculty of Medicine, Universidad de Chile.
94. **Involvement of Exo70 in neuronal damage.** Matías Lira¹, Francisco J. Carvajal¹, Viviana Torres², Pedro Zamorano³ & Waldo Cerpa¹. ¹Laboratorio de Función y Patología Neuronal, Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile; ²Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile; ³Departamento Biomédico, Facultad de Ciencias de la Salud, Universidad de Antofagasta, Chile.
96. **KDEL modulates golgi-lysosome-autophagosome inter-organelle crosstalk to sustain protein secretion.** Diego Tapia, ¹Javier Espinoza, ¹Tomás Jiménez, ²Constanza Zamora, ³Riccardo Rizzo, ⁵Alexis Gonzalez, ⁴Fanny Guzmán, ²Gloria Arriagada, ^{1, 5}Patricia Burgos, ¹Alfonso Gonzalez, ³Alberto Luini and ¹Jorge Cancino. ¹Centro de Investigaciones en Biología Celular y Biomedicina, Universidad San Sebastián, 7510157 Santiago, Chile. ²Facultad de Ciencias Biológicas, Universidad Andrés Bello, Quillota 980, Viña del Mar 2520000, Chile. ³Consiglio Nazionale delle Ricerche (CNR), Istituto di Biochimica delle Proteine (IBP), Via Pietro Castellino 111, 80131 Napoli, Italy. ⁴Fraunhofer Chile Research, Santiago 7550296, and Núcleo Biotecnología Curauma, Pontificia Universidad Católica de Valparaíso, Valparaíso 2373223, Chile. ⁵Department of Physiology, School of Medicine, Universidad Austral de Chile, Valdivia, Chile.
98. **Late radial glia cells: immunohistochemical characterization, SVCT2 expression and neuronal differentiation during postnatal stages.** Saldivia N., Salazar K., Espinoza F., Ferrada, L., Nualart F. Laboratory of Neurobiology and Stem Cells, NeuroCellT, Center for Advanced Microscopy, CMA BIO BIO, Faculty of Biological Sciences, University of Concepción.
100. **Melanoma rejection mediated by skin-resident memory T cells broadens protective circulating CD8+ T cell responses against melanoma-derived antigens.** Evelyn Menares, Felipe Gálvez-Cancino, Ernesto López, Sofía Hidalgo, Alvaro Lladser. Laboratory of Gene Immunotherapy, Fundación Ciencia & Vida, Santiago, Chile.
102. **Mitochondrial unfolded protein response modifies axonal degeneration in *Drosophila*.** Muñoz-Carvajal F., Sanhueza M. & Court F. ¹Center for Integrative Biology, Faculty of Sciences, Universidad Mayor, Chile; ²FONDAP Geroscience Center for Brain Health and Metabolism, Chile.
104. **Molecular function of the stem cell factor Lin28 in the thyroid hormone homeostasis during *Xenopus* metamorphosis.** Guzmán-Gundermann, D.¹, Martínez, J.², Muñoz, C.², Larraín, J.¹, Faunes, F.². ¹Center for Aging and Regeneration, Millennium Nucleus in Regenerative Biology, Faculty of Biological Sciences, P. Universidad Católica de Chile, Chile. ²Faculty of Biological Sciences, Universidad Andrés Bello, Chile.

- 106. Monocarboxylate transporters expression on mesenchymal stem cells and their role on immunosuppression.** Roberto Elizondo-Vega¹, Rafael Contreras¹, Magdiel Salgado², Luna Martinez¹, MJ Paredes¹, MA Garcia², Patricia Luz-Crawford¹. ¹Facultad de Medicina, Universidad de los Andes. ²Facultad de Ciencias Biológicas, Universidad de Concepción.
- 108. Morphological changes of the neuromuscular junction of the mouse *Levator auris longus* muscle after nerve injury.** Francisca Bermedo-García, Diego Zelada, Jorge Ojeda, Juan Pablo Henríquez. Department of Cell Biology and CMA Bio-Bio, University of Concepcion, Concepción, Chile.
- 110. Muscle recovery by local injection of human Mesenchymal Stem Cells (MSCs) in a murine model of severe muscle injury.** Villalobos-González V., Zuleta A., Arancibia R., Casas M. ICBM, Facultad de Medicina, Universidad de Chile. Cellus Medicina Regenerativa S.A.
- 112. Network approach identifies RUBCNL as a protein involved in ALS pathogenesis.** Beltrán, S¹, Nassif, M¹, Vicencio, E¹, Arcos, J¹, Labrador, L¹, Medinas, D², Hetz, C², Rojas-Rivera, D³, Bertrand, M³, Manque, P¹, Woehlbier, U¹. ¹Center of integrative biology, Universidad Mayor, Chile. ²Brain Neuroscience Institute (BNI), University of Chile, Chile. ³VIB-UGent Center for Inflammation Research, University of Ghent, Belgium.
- 114. Overexpression and inhibition of GLUT2 in tanycytes and their effect on glucose transport.** Escobar-Acuña K¹, Salgado M¹, Elizondo-Vega R², Barahona MJ¹, Órdenes P¹, García-Robles MA¹. ¹Laboratorio de Biología Celular, Facultad de Ciencias Biológicas, Universidad de Concepción. ²Centro de Investigación Biomédica, Universidad de Los Andes.
- 116. Pelado encodes a novel protein that regulates the actin polymerization dynamics in *Drosophila melanogaster*.** Molina-Pelayo C.¹, Mlodzik M.², Olgún P.³, Glavic A.¹. ¹Laboratorio de Genética del Desarrollo, Departamento de Biología, Facultad de Ciencias, Universidad de Chile. ²Department of Cell, Developmental and Regenerative Biology, Icahn School of Medicine at Mount Sinai, New York. ³Programa de Genética Humana, ICBM, Departamento de Neurociencia, BNI, Facultad de Medicina, Universidad de Chile.
- 118. PTHrP regulates factors involved in the pathogenesis of colorectal cancer.** Carriere P¹, Calvo N¹, Riquelme AN², Martín MJ¹, Díaz BN¹, Contreras HR², Gentili C¹. ¹Instituto de Ciencias Biológicas y Biomédicas del Sur (INBIOSUR), Departamento de Biología, Bioquímica y Farmacia, Universidad Nacional del Sur, Argentina. ²Department of Basic and Clinic Oncology. Faculty of Medicine, University of Chile.
- 120. Recovery of mitochondrial fusion rescues skeletal muscle function in Duchene muscular dystrophy.** Castro, M., Rebolledo D., Brandan E., Eisner, V. Departamento Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
- 122. LATS2 promotes ASK1-mediated signaling to activate the p38 and JNK.** Lauren Rusnak, Qi Qi, Xiu-lei Mo, Hai-an Fu. Department of Pharmacology and Emory Chemical Biology Discovery Center, Emory University, Atlanta, GA, USA.
- 124. Role of chromatin remodelers and epigenetic modifications during B cell differentiation associated to DNA damage.** Constanza Cárcamo, Marcos Castro, Yennyfer Arancibia and Angara Zambrano. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile. Valdivia.
- 126. Role of ERp57 in the pathogenesis of amyotrophic lateral sclerosis.** Medinas DB^{1,2,3}, Sepulveda M^{1,2,3}, Rozas P^{1, 2,3}, Martínez F^{1,2,3}, Díaz R^{1,2,3}, Ojeda J⁴, Pinto C⁴, Mella J⁴, Pérez V⁴, Woehlbier U^{1,2}, Kerr B⁵, Henríquez JP⁴, Hetz C^{1,2,3,6,7}. ¹Biomedical Neuroscience Institute, ²Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, Faculty of Medicine, University of Chile, and ³Center for

Geroscience, Brain Health and Metabolism, Santiago, Chile. ⁴Department of Cell Biology, Faculty of Biological Sciences, Center for Advanced Microscopy, University de Concepción, Concepción, Chile, ⁵Centro de Estudios Científicos, Valdivia, Chile, ⁶ Buck Institute for Research on Aging, Novato, CA, USA, ⁷Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, USA.

- 128. Role of IGF2 in motor impairment associated with aging process.** Castillo, V.^{1,3,4}; Rivera, CA.^{1,3,4}; Hormazábal, M.J.^{3,4}; Parra A.^{3,4} and Vidal, R.^{1,2,3,4}. ¹University Mayor, ²Neurounion Biomedical Foundation, ³Biomedical Neuroscience Institute, University of Chile, ⁴Center for Geroscience, Brain Health and Metabolism Santiago, Chile.
- 130. Role of Neuropilin-1 in Foxp3+ Treg-dependent suppression mechanism.** Mauricio Campos-Mora¹, Tania Gajardo¹, Karina Oyarce¹, Pamina Contreras¹ and Karina Pino-Lagos¹. ¹Centro de Investigación Biomédica, Facultad de Medicina, Universidad de los Andes.
- 132. Role of SUMOylation in loading of Aldolase C into astrocyte-derived small extracellular vesicles.** Anllely Fernández, Cristóbal Gómez, Alejandro Rojas^ψ, Ursula Wyneken. CIB, University of Andes, Chile. ^ψMedicine Institute, UACH.
- 134. Role of the senescence associated secretory phenotype on cell proliferation and myofibroblastic differentiation in human gingival fibroblasts.** Zapata P, Hernández R, Martínez C, Smith PC. School of Dentistry, Faculty of Medicine, Pontificia Universidad Católica de Chile.
- 136. Role of vitamin C recycling during neurite formation in neurospheres differentiated *in vitro*.** Espinoza F., Magdalena R., Martínez F., Salazar K., Nualart F. Centro de Microscopía Avanzada CMA BIO BIO, University of Concepción.
- 138. The germline markers NANOS and DDX are increased in cancer stem cells of prostate cancer.** Riquelme AN, López FL, Contreras HR, Castellón EA. Department of Basic and Clinic Oncology. Faculty of Medicine. University of Chile.
- 140. The KDEL receptor regulates lysosome trafficking to the immune synapse in B cells.** Danitzia Fuentes, Jorge Cancino, Jorge Ibañez y Maria-Isabel Yuseff. Department of Cellular and Molecular Biology. Faculty of Sciences. Pontificia Universidad Católica de Chile. Santiago, Chile. Centro de Investigaciones en Biología Celular y Biomedicina, Universidad San Sebastián, Santiago, Chile.
- 142. The knock down of GOLPH3 affects migration and invasion of T98G cells of glioblastoma multiforme through FAK signaling.** Cecilia Arriagada¹, Charlotte Luchsinger¹, Alexis González⁴, Andrés Rivera-Dicter¹, Gloria Arriagada³, Pamela Ehrenfeld², Patricia V. Burgos^{1,4} and Gonzalo A. Mardones^{1,4}. ¹Departments of Physiology and ²Anatomy, Histology and Pathology, and Center CISNe, Universidad Austral Chile, Valdivia, ³Department of Biological Sciences, Universidad Nacional Andrés Bello, Viña del Mar, and ⁴Centro CEBICEM, Universidad San Sebastián, Santiago, Chile.
- 144. The synaptogenic proteins Exo70 and Neuropilin 65 are distributed differently in synaptic subdomains of rat brain.** Patricio R. Orrego¹, Waldo Cerpa², Pedro Zamorano¹, Karl-Heinz Smalla³, Constanze Seidenbecher³, Eckart Gundelfinger³, Nivaldo C. Inestrosa^{2,4}, Viviana I. Torres^{2,4}. ¹Universidad de Antofagasta, ²Pontificia Universidad Católica de Chile, ³Leibniz Institute for Neurobiology, Germany, ⁴CARE.
- 146. The therapeutic potential of c-Abl inhibition in fibroblasts of Niemann-Pick C1 patients: effect over cholesterol accumulation and TFE3 activation.** Tapia PJ¹, Contreras PS^{1,2}, Las-Heras M¹, Klein A³, Medina DL⁴, Ballabio A⁴, Alvarez A², Zanlungo S¹. ¹Departamento Gastroenterología, Pontificia

Universidad Católica de Chile (PUC). ²Departamento Biología Celular y Molecular, CARE-UC, PUC. ³Centro de Genética y Genómica, Universidad del Desarrollo. ⁴Telethon Institute of Genetics and Medicine, Italy.

- 148. The transcriptional coactivator Yorkie/YAP, the endpoint of Hippo pathway, during oogenesis in the insect *Euborellia annulipes*.** Felipe Córdova¹ and Paula Irlés^{1,2}. ¹Pontificia Universidad Católica de Chile. ²Universidad de O'Higgins.
- 150. Transcriptional regulation of the *cxcr4* gene mediated by hypoxia inducible transcription factor (HIF-1).** Patricia Sánchez, C Marchante, J Espina, A Reyes. Andrés Bello University, Faculty of Biological Sciences, Santiago, Chile.
- 152. Unraveling the role of locally synthesized reticulon-1 in developing axons.** Alejandro Luarte^{1,2}, Javiera Gallardo^{1,2}, Andrés Couve^{1,2}. ¹Neuroscience Department, ²Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile.
- 154. Wnt7a increases the recruitment but not the stabilization of Piccolo clusters in newly formed synapses.** Paulette Saavedra¹, Viviana I. Torres¹, Jasson A. Espinoza-Cacedo¹, Nibaldo C. Inestrosa^{1,2}. ¹Center for Aging and Regeneration (CARE), Pontificia Universidad Católica de Chile. ²CEBIMA.
- 156. Protein- and lipid-binding properties of alpha-SNAP are modified by the M105I mutation that causes a unique neurodevelopmental disorder.** Bryan Hinrichsen^{1,3}, Cristian Parga¹, Rosa Iris Muñoz^{1,3}, Jonathan Canan⁴, Diego Acuña^{1,3}, Loreto Ojeda¹, Gonzalo Mardones^{2,3}, Wendy Gonzalez⁴, Thilo Kähne⁵, and Luis Federico Batiz^{1,2,6}. ¹IAHP, ²IFisiol, ³CISNe, Universidad Austral de Chile; ⁴CBSM, Universidad de Talca; ⁵Otto-von-Guericke-Universität, Magdeburg, Germany; ⁶CIB, Universidad de los Andes.
- 158. The unfolded protein response sensor IRE-1 α modulates innate recognition and antigen presentation of melanoma tumor cells.** Bernardita Medel^{1,2}, Cristóbal Costoya^{1,2}, Flavio Salazar-Onfray^{1,2}, Fabiola Osorio^{1,2}. ¹Universidad de Chile. ²Millennium Institute on Immunology and Immunotherapy.
- 160. Sepsis induces early muscular atrophy associated with expression of connexin-based hemichannels.** Fujiko Saavedra¹, Elisa Balboa², Aníbal Vargas², Valeria Ramirez¹, Rosalba Escamilla², Juan C. Sáez^{2,3}, Tomás Regueira¹. ¹Centro de Pacientes Críticos, Clínica Las Condes, Santiago. ²Pontificia Universidad Católica de Chile, Santiago. ³Centro Interdisciplinario de Neurociencias de Valparaíso.

19:30 Society Members Meeting

20:00 Dinner

22:00 – 23:00 PLENARY LECTURE “Chilean Society for Cell Biology”

Puerto Rosales Room

Chair: Francisca Bronfman, P. Universidad Católica de Chile

(RE)VISITANDO EL FUTURO DE LAS CIENCIAS CHILENAS POR EL CAMINO YA RECORRIDO DE LA CONSERVACIÓN. Bárbara Saavedra, Directora Wildlife Conservation Society-Chile.

WEDNESDAY, OCTOBER 25, 2017

08:00 **Poster Mounting Session III: N° 162 to N° 240**
Puerto Varas Room

09:00 – 10:30 **Oral Presentations IV**
Puerto Rosales Room
Chairs: Hugo Olgún, P. Universidad Católica de Chile
Federico Batiz, Universidad de los Andes

09:00 **Hif-1 stabilization in zebrafish neural crest. Jaime A. Espina^{1,2}**; Cristian L. Marchant^{1,2}; Ariel E. Reyes^{1,2}. ¹Universidad Andrés Bello, Chile; ²Interdisciplinary Center for Aquaculture Research (INCAR), Chile.

09:15 **The transcription factor ZEB1 as a key promoter of tumor progression and chemoresistance in prostate cancer cell lines. Orellana-Serradell O.**, Herrera D., Castellón EA, Contreras HR. Department of Basic and Clinic Oncology. Faculty of Medicine. University of Chile.

09:30 **Alpha-SNAP is involved in the formation/stabilization of N-cadherin-based adherens junctions and survival of neural stem cells. Zahady D. Velásquez^{1,2}**, Martin Held^{1,2}, María Paz Miró^{1,2}, María Clara Jara¹, **Felipe Bustamante**^{1,2}, Diego Acuña^{1,2}, Rosa Iris Muñoz^{1,2} and Luis Federico Bátiz^{2,3}. ¹IAHP-Facultad Medicina, ²CISNe, Universidad Austral de Chile; ³Centro de Investigación Biomédica (CIB), Universidad de los Andes.

09:45 **Mitochondrial permeability transition pore leads to mitochondrial dysfunction in fibroblasts of patients with sporadic Alzheimer`s disease. María J. Pérez.**^{1,2}, Daniela Ponce³, María I. Behrens³, Rodrigo A. Quintanilla^{1,2}. ¹Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile; ³ICB, Universidad de Chile.

10:00 **c-Abl inhibition/loss of function affects myogenic transcription factors expression during adults myoblast differentiation. Fabián J. Montecino**, Natasha Blanco, Adrián González, Alejandra Álvarez & Hugo Olgún. Department of Cell & Molecular, Facultad Ciencias Biológicas, Pontificia Universidad Católica de Chile. Santiago, Chile.

10:15 **Localized inter-cellular transfer of ephrins by trans-endocytosis provides a memory of signaling. José I. Valenzuela**¹, Franck Perez¹. ¹Institut Curie, PSL Research University, CNRS-UMR144, Paris, France.

10:30 – 12:30 **Poster Viewing Session III: 162-240 Odd Numbers**
Puerto Varas Room

163. **Wnt5a-regulated miR-101b controls ROCK2 expression in hippocampal neurons. Daniela Vallejo**, Juan F. Codocedo, and Nivaldo C. Inestrosa. Centro de Envejecimiento y Regeneración (CARE-UC), Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile, Chile.

165. **Wnt3a overexpression induces an aging-like phenotype at the neuromuscular junction *in vivo*. Jorge Ojeda¹, Jessica Mella¹**, Francisca Bermedo-García¹, Rocío Tejero², Lucía Tabares², Juan Pablo Henríquez¹. ¹Department of Cell Biology and CMA Bio-Bio, University of Concepcion, Concepción, Chile, and ²Department of Medical Physiology and Biophysics, Universidad de Sevilla, Sevilla, Spain.

- 167. Visualization of Murine Leukemia Virus (MLV) microtubule-associated transport. Gianfranco Pietrantoni**, Diego Herrera, Gloria Arriagada. Departamento de Ciencias Biológicas, Universidad Andrés Bello.
- 169. Vasculogenic mimicry: an alternative mechanism of tumor irrigation. Valdivia A**^{1,5}, Mingo G^{1,5}, Racordon D¹, Bravo ML^{1,3}, Sandoval A^{1,5}, González A⁶, Retamal C⁶, Cuello M¹, Nualart F⁷, Sanchez B⁴, Corvalán AH^{1,3,5} & Owen GI^{1,2,3,5}. ¹Faculties of Biological Sciences & Medicine, ²Millennium Institute on Immunology and Immunotherapy. ³Center UC Investigation in Oncology, ⁴Institute of Physics, Pontificia Universidad Católica de Chile. ⁵Advanced Center for Chronic Diseases, ⁶Universidad San Sebastian, ⁷Universidad de Concepción.
- 171. Treatment of dendritic cells with dexamethasone and MPLA induces a transcriptional profile that promotes regulation of immune responses. Paulina García-González**, Katina Schinnerling, Alejandro Sepúlveda G, Jaxaira Maggi, Lilian Soto, Oscar Neira, Ahmed M. Medhi, Hendrik J. Nel, Diego Catalán, Ranjeny Thomas, Ricardo A. Verdugo, Juan Carlos Aguillón. Programa de Inmunología, Universidad de Chile, Santiago, Chile. Programa de Genética Humana, Universidad de Chile, Santiago, Chile. University of Queensland, Diamantina Institute, Translational Research Institute, Princess Alexandra Hospital, Queensland, Australia.
- 173. The transcription factor ZEB1 promotes tumor malignancy by increasing androgens synthesis in prostate cancer cell lines. Herrera D.**, Orellana-Serradell O., Castellón EA, Contreras HR. Department of Basic and clinic oncology. Faculty of Medicine. University of Chile.
- 175. The role of A β in the mechanism of necroptosis-mediated axonal degeneration in Alzheimer's disease. Natalia Salvadores**^{1,2}, Marcela Escandón¹, Felipe Court^{1,2}. ¹Center for Integrative Biology, Faculty of Sciences, Universidad Mayor, Chile; ²FONDAP Geroscience Center for Brain Health and Metabolism, Chile.
- 177. The increase of D-lactic acid in the synovial fluid of heifers with acute ruminal acidosis marks the beginning of neutrophilic aseptic polysynovitis. Alejandra Hidalgo**¹, Carolina Manosalva², Montserrat Guerra³ Stefanie Teuber¹, **Daniella Carretta**¹, Angelica Hidalgo¹ and Rafael Burgos¹. ¹Institute of Pharmacology and Morphophysiology, Faculty of Veterinary Science, Universidad Austral de Chile. ²Institute of Pharmacy, Faculty of Sciences, Universidad Austral de Chile. ³Institute of Anatomy, Histology and Pathology, Faculty of Medicine, Universidad Austral de Chile.
- 179. The ER-Golgi traffic machinery implication on autophagy. Tomás Jiménez**¹, Diego Tapia¹, Patricia Burgos² and Jorge Cancino¹. ¹Centro de Biología Celular y Biomedicina, Universidad San Sebastián, Los Leones, Providencia, Santiago. ²Instituto de Fisiología, Facultad de Medicina; Centro Interdisciplinario de Estudios del Sistema Nervioso (CISNe), Universidad Austral de Chile, Valdivia, Chile.
- 181. The c-Abl inhibition prevents the epilepsy damage through NR2B-NMDA regulation. Vargas LM**, ¹Chandia A, ⁴Lara M, ¹Jimenez P, ¹Leal N, ¹Gutierrez D, ²Carvajal F, ³Zanlungo S, ²Cerpa W, ⁴Rojas P, ¹Alvarez A. ¹Cell Signaling Laboratory, CARE-Chile UC. ²Pathology and Neuronal Function Laboratory, C Cell and Molecular Biology, Biological Sciences Faculty, ³Department of Gastroenterology, Faculty of Medicine, P. Universidad Católica de Chile. ⁴Laboratorio de Neurociencias, USACH.
- 183. The activity of Threonyl-carbamoyl transferase complex (TCTC) changes during cellular differentiation in *Drosophila melanogaster*. Emiliano Molina** and Álvaro Glavic. Developmental Genetics laboratory, Faculty of Sciences, Universidad de Chile.
- 185. The activation of GPR40 and GPR120 receptors promotes C2C12 myoblast differentiation. Jennifer Faúndez Contreras**, Fernanda Navarro, Cecilia Riquelme. Laboratorio de Diferenciación y Patología. Pontificia Universidad Católica de Chile.

- 187. Targeting PERK signaling with the small molecule GSK2606414 prevents neurodegeneration in a Parkinson's disease model.** Soto P.,¹ Axten J.,² Hoozemans J. J. M.,³ Hetz C.¹ and **Mercado G.**¹.
¹Biomedical Neuroscience Institute, ICBM, Faculty of Medicine, University of Chile, Santiago, Chile.
²GSK Oncology, GlaxoSmithKline, Pennsylvania, USA. ³ VU UMC, Amsterdam, Netherlands.
- 189. Stemness features of prostate cancer cells induced by carcinoma-associated fibroblasts.** **Núñez Muriel A.**, Cerda-Infante Javier., Montecinos Viviana P. Department of Hematology-Oncology, Faculty of Medicine, Pontifical Catholic University of Chile.
- 191. SRPK2 a new regulator of active zone assembly and stability in hippocampal neurons.** **Viviana I. Torres**¹, Juan A. Godoy¹, Patricio R. Orrego², Pedro Zamorano², Nivaldo C. Inestrosa¹. ¹CARE, P. Universidad Católica de Chile, ²Universidad de Antofagasta.
- 193. Src kinase inhibition attenuates migration and invasion of gemcitabine resistant gallbladder cancer cells.** **Felipe Suárez**, Carolina Bizama, Lorena Rosa, Daniela Nahuelquén, Lorena Oróstica, Alfredo Sagredo, Juan Carlos Roa, Patricia García. Departamento de Anatomía Patológica, Facultad de Medicina; FONDAF ACCDIS; Pontificia Universidad Católica de Chile.
- 195. SOCS1/SOCS3 Ratio is as a predictive marker of the immunosuppressive potential of mesenchymal stem cells.** **Kurte M**¹, Raúl A²; Coutinho-Maracaja V², Cuenca J¹, Khoury M¹. ¹Facultad de Medicina, Universidad de los Andes, Chile. ²Laboratorio de Bioinformática, Facultad de Medicina, Universidad Mayor, Chile.
- 197. RUBCNL as a protein involved mesenchymal stem cell (MSCs) immunomodulation.** **C.A. Bergmann**¹, L. Labrador¹, M.F. Hernandez¹, J. Arcos, P. Gleisner¹, L. Lieng¹, C. Cortez¹, A.M Letter², F. Court¹, U. Woehlbier¹, F. Carrion² and P. Manque¹. ¹Center for Integrative Biology, Faculty of Science, Universidad Mayor, Santiago, Chile. ²Programa de Inmunología traslacional, ICIM, Faculty of Medicine, Universidad del Desarrollo, Clínica Alemana, Santiago, Chile.
- 199. Role of the Wnt/ β -catenin pathway during axial elongation in the red flour beetle *Tribolium castaneum*.** **Belén G. Riveros**, Andres F. Sarrazin. Laboratorio Bioquímica de Sistemas, Instituto de Química, Pontificia Universidad Católica de Valparaíso.
- 201. Role of the E3 ligase Nedd4 in the regulation of mitophagy in myogenic cells.** **Jeremy Salas**, Verónica Eisner and Hugo Olgún. Molecular and Cell Biology Department, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile.
- 203. Role of the calcium-activated potassium channel KCa3.1 in mucociliary clearance.** **G. Vega**^{1,2}, A.R Philp¹, Ambra Gianotti³, O Zegarra-Moran³, L Galietta³, C.A Flores¹. ¹Centro de Estudios Científicos, Valdivia, Chile. ²Universidad Austral de Chile, Valdivia, Chile. ³U.O.C. Genética Medica, Istituto G. Gaslini, Génova, Italia.
- 205. Role of nutraceuticals in the survival of colorectal cancer cells.** Cynthia Villarroel, **Ana Maria Wielandt**, Elea Gros, Udo Kronberg and Francisco López-Köstner. Unidad de Coloproctología. Clínica Las Condes.
- 207. Role of IGF2 in Parkinson disease models.** Rivera, C.^{1,3,4}; Castillo, V.^{1,3,4}; Hormazabal, M.J.^{3,4}; Parra A.^{3,4} and **Vidal, R.**^{1,2,3,4}. ¹University Mayor, ²Neurounion Biomedical Foundation, ³Biomedical Neuroscience Institute, University of Chile, ⁴Center for Geroscience, Brain Health and Metabolism Santiago, Chile.
- 209. Ric-8A, a GEF for heterotrimeric G protein signaling controls cell polarization.** **Leal J.**, Villaseca S., Perez C., Torrejón M. Laboratory of Signaling and Development, Department of Biochemistry and Molecular Biology, University of Concepcion.

- 211. Restraint of skin fibroblast motility, migration and cell surface actin dynamics by pannexins/purinergic signaling.** Carolina Flores-Muñoz¹, Isaac E. García¹, Jacqueline Vásquez¹, Jaime Maripillán¹, Myra Chávez², Tomás Egaña², Donald I. Brown³ and Agustín D. Martínez¹. ¹Centro Interdisciplinario de Neurociencia de Valparaíso, Universidad de Valparaíso, Valparaíso. ²Schools of Engineering, Biological Sciences and Medicine, Pontificia Universidad Católica de Chile, Santiago. ³Unidad de Biología de la Reproducción y del Desarrollo, Universidad de Valparaíso, Valparaíso, Chile.
- 213. Regulation of nuclear calcium signals in adult skeletal muscle fibers.** Campos C¹, Diaz A¹, Contreras-Ferrat A^{1,2}, Casas M¹, Jaimovich E¹. ¹Laboratorio de Fisiología Celular de Músculo, CEMC, Facultad de Medicina, Universidad de Chile. ²Laboratorio de ciencias del ejercicio, Facultad de Medicina, Universidad Finis Terrae.
- 215. Regulation of Cdk5 activity by TNF- α and LPS treatment in differentiated mouse dental cells.** Nicolás Pinto¹, Pablo Lazcano¹, Rodrigo Sandoval¹, Franco Ferrari¹, Christian González-Billault^{1,2}, Elías Utreras¹. ¹Department of Biology, Faculty of Sciences, Universidad de Chile. ²GERO, Santiago, Chile.
- 217. HIV-1 TAT protein increases hemichannel activity in astrocytes.** Cristián A. Santibañez and Juan A. Orellana. Departamento de Neurología. Escuela de Medicina. Pontificia Universidad Católica de Chile.
- 219. Protein disulfide isomerase ERp57 delays disease onset and reduces toxic forms of mutant SOD1 in a mouse model of ALS.** Pablo Rozas^{1,2,3}, Danilo B. Medinas^{1,2,3}, Francisca Martínez^{1,2,3}, Rodrigo Díaz^{1,2,3} and Claudio Hetz^{1,2,3,4,5}. ¹Biomedical Neuroscience Institute, ²Center for Molecular Studies of the Cell, ICBM, Faculty of Medicine, Universidad de Chile. ³Center for Geroscience, Brain Health and Metabolism, Santiago, Chile. ⁴Buck Institute for Research on Aging, Novato, CA, USA. ⁵Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, USA.
- 221. Possible role of LPA receptors in skeletal muscle fibrosis.** Adriana Córdova-Casanova and Enrique Brandan. Laboratorio de Diferenciación Celular y Patología. Pontificia Universidad Católica de Chile. Santiago, Chile.
- 223. Phospho ascorbic acid modulates SVCT2 localization at plasma membrane in Huntington's disease cells and mice.** Gonzalo Mayorga-Weber, Adriana Covarrubias-Pinto and Maite A. Castro. I. Bioquímica y Microbiología, CISNe, UACH.
- 225. Peptidoglycan increases Cx43 hemichannel and Panx1 channel opening in cortical astrocytes.** Valeria C. Labra, Rosario Gajardo-Gómez, Juan A. Orellana. Departamento de Neurología, Escuela de Medicina, Pontificia Universidad Católica de Chile.
- 227. Oxidative stress is involved in binge drinking-induced metabolic alterations in skeletal muscle.** Sebastián Sepúlveda¹, Alfonso González¹, César Osorio Fuentealba^{1,2}. ¹Laboratorio de Biología Molecular, Celular y Metabolismo, Departamento de Kinesiología, UMCE, Santiago, Chile. ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Santiago, Chile.
- 229. OPA1 domain-specific mutations differentially alter mitochondrial dynamics, bioenergetics and ultrastructure in ADOA-derived fibroblasts.** Cartes-Saavedra B¹, Burté F², Yu-Wai-Man P², Eisner V¹. ¹Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. ²Wellcome Trust Center for Mitochondrial Research, Newcastle University.
- 231. Neogenin-1 participates in neuroblastoma cell migration via FAK phosphorylation and Integrin β 1 activation.** Andrea A. Villanueva¹ Carlos Cubo², Vicente A. Torres³, Pilar Sanchez-Gomez², and Verónica Palma¹. ¹CTYBD Laboratory. Universidad de Chile, Chile. ²UFIEC, Instituto de Salud Carlos III, Spain. ³Institute for Research in Dental Sciences, Universidad de Chile, Chile.

- 233. Mathematical model of copper homeostasis in *Enterococcus faecalis*.** Martín Ríos^a, Alejandro Maass^a and Mauricio Latorre^{a,b}. ^aMathomics, Center for Mathematical Modeling, Universidad de Chile, Beauchef 851, 7th Floor, Santiago, Chile. ^bInstituto de Ciencias de la Ingeniería, Universidad de O'Higgins, Av. Viel 1497, Rancagua, Chile.
- 235. Jitterbug/Filamin, Myo-II and Rho-kinase integrate a multiprotein complex that respond to mechanical stress during muscle-tendon interaction development.** Franco Vega-Macaya^{1,2}, Mauricio Valdivia^{1,2}, Catalina Manieu^{1,2} and Patricio Olguín^{1,2}. Programa de Genética Humana¹, ICBM, Departamento de Neurociencia², BNI, Facultad de Medicina, Universidad de Chile.
- 237. Involvement of Rubicon family of proteins in neurodegeneration.** B. Cortes¹, E. Vicencio¹, L. Labrador¹, M.F. Hernandez¹, S. Espinoza¹, C. Hetz², C. Duran², P. Manque¹, U. Woehlbier¹, C. Cortez¹, and M. Nassif¹. ¹Center for Integrative Biology (CIB) U. Mayor, Santiago, Chile. ²Biomedical Neuroscience Institute, U. de Chile, Santiago, Chile.
- 239. Interaction of GOLPH3 with RAB1A: identification of a putative non-canonical RAB1A effector.** Viviana Cavieres¹, Cristóbal Cerda², Andrés Rivera-Dicter¹, Natacha Santibáñez¹, Patricia V. Burgos^{1,2} and Gonzalo A. Mardones^{1,2}. ¹Department of Physiology and Center CISNe, Universidad Austral Chile, Valdivia, and ²Centro CEBICEM, Universidad San Sebastián, Santiago, Chile.

12:30 – 14:30 Lunch

14:30 – 15:30 THE POWER HOUR (SBCCH)

Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

15:30 – 17:00 POLITICA CIENTIFICA EN CHILE

Puerto Rosales Room

Chair: Francisca Bronfman, President SBCCH, Universidad de Chile

Mario Hamuy, Presidente del Consejo de CONICYT

17:00 – 19:00 Poster Viewing Session III: 163-240 Even Numbers

Puerto Varas Room

- 164. Histological study of the adventitial layer of fertile, infertile and small hydatid cysts reveals hallmark inflammatory features.** Hidalgo, Christian¹; Stoore, Carol¹; Jiménez, Mauricio¹; Correa, Felipe¹; Strull, Karen¹; Franco, Carmen²; Paredes, Rodolfo¹. ¹Escuela de Medicina Veterinaria, Universidad Andres Bello; ²Staff Pathologist, Clínica Santa Maria.
- 166. Hippocampal learning-associated neuron purification for epigenetic analyses.** Mario Sánchez^{1,2}, Mauricio Sáez^{1,2}, Martín Montecino^{1,2}, Brigitte van Zundert¹. ¹Centro de Investigaciones Biomédicas, UNAB, Chile; ²FONDAP Center for Genome Regulation, Chile.
- 168. Hantavirus: developing a new therapeutic approach.** María Inés Barría¹, Felipe Bravo¹, Mario Calvo², and Jose Luis Garrido¹. ¹Department of Microbiology, University of Concepcion, Concepcion, Chile. ²Medicine Institute, Austral University of Chile, Valdivia, Chile.
- 170. Genistein activates TFEB and induces lysosomal clearance in Niemann-Pick C models.** Argüello G, Yañez MJ, Tapia P, Castro J, Zanlungo S. Pontificia Universidad Católica de Chile, Departamento de Gastroenterología, Facultad de Medicina.
- 172. Gene therapy approaches to target proteostasis alterations in ALS.** Vicente Valenzuela^{1,2,3}, Daniela Becerra^{1,2,3}, Pablo Sardi⁴, Soledad Matus⁵, and Claudio Hetz^{1,2,3}. ¹Biomedical Neuroscience, Faculty of

Medicine, University of Chile, Santiago, Chile; ²Center for Geroscience, Brain Health and Metabolism, Santiago, Chile; ³Program of Cellular and Molecular Biology, Biomedical Sciences Institute (ICBM), University of Chile, Santiago, Chile; ⁴Sanofi Genzyme Corp., Cambridge Ma, USA; ⁵Fundación Ciencia y Vida, Santiago, Chile.

- 174. Galectin-8 increases the activity of the proteasome through an EGFR-mediated novel mechanism.** Adely De la Peña¹, Christopher Holmes¹, Felipe Padilla¹, Priscilla Cortes², Catalina Meléndez², Daniela González², Alfonso González^{1,2} and Andrea Soza^{1,2}. ¹Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. ²Centro de Biología Celular y Biomedicina, Facultad de Ciencia y Facultad de Medicina. Universidad San Sebastián.
- 176. FGF21 promotes glucose uptake in adult skeletal muscle fibers from mice.** Giovanni Rosales-Soto¹, Alexis Díaz-Vegas¹, Paola Llanos^{1,2}, Enrique Jaimovich^{1,3}, Ariel Contreras-Ferrat⁴. ¹Center for Molecular Studies of the Cell, Facultad de Medicina, Universidad de Chile, Santiago, Chile. ²Institute for Research in Dental Science, Facultad de Odontología, Universidad de Chile, Santiago, Chile. ³Institute of Biomedical Sciences Facultad de Medicina, Universidad de Chile, Santiago, Chile. ⁴Exercise Physiology Laboratory, Facultad de Medicina, Universidad Finis Terrae, Santiago, Chile.
- 178. FcγRIIB, Siglec-2 and Siglec-10 regulate IL-10 secretion on human B cells.** Ferrier, A.¹, Aravena, O.¹, Berendsen, J.¹, Ramirez, A.¹, Aguillón, J.C.¹, Soto, L.^{1,2}, Catalán, D.¹. ¹Programa Disciplinario de Inmunología, ICBM, Facultad de Medicina, Universidad de Chile, e Instituto Milenio en Inmunología e Inmunoterapia. ²Hospital Clínico, Universidad de Chile.
- 180. Expression and localization of the endocannabinoids-producing DAGLα enzyme in the arcuate nucleus.** Konar-Nié M¹, Órdenes P¹, Salgado M¹, Palma A¹, García-Robles MA¹, Sepúlveda FJ^{1,2}. ¹Laboratorio de Biología Celular, ²Departamento de Bioquímica y Biología Molecular, Facultad de Ciencias Biológicas, Universidad de Concepción.
- 182. Expression and localization analysis of the catalytic subunits of protein phosphatase-1 (PP1) and IIG9 protein during ependymal cell differentiation and polarization.** Oviedo M.J., Baeza V., Espinoza F., Martínez F., Nualart F., Salazar K. Laboratory of Neurobiology and Stem Cells, NeuroCellT, Center for Advanced Microscopy CMA BIOBIO, University of Concepcion.
- 184. Excitation-Metabolism Coupling in skeletal muscle: From membrane depolarization to change in mitochondrial metabolism.** A. Díaz-Vegas, A. Cordova, D. Valladares, P. Llanos, C. Hidalgo, A. Contreras-Ferrat, E. Jaimovich. Laboratorio de Fisiología Celular del Músculo, Facultad de Medicina, Universidad de Chile, Santiago, Chile.
- 186. Ethanol as a priming effector for acute pathophysiology conditions: oxidative balance and structural plasticity.** Rodrigo Mira G, Rodrigo Quintanilla and Waldo Cerpa. Laboratorio de Función y Patología Neuronal, Dpto. Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
- 188. Epigenetic repression during early stages of adult neurogenesis.** Miguel V. Guerra, Andrea Herrera-Soto, Matías I. Cáceres, Nur Jury, Estibaliz Ampuero, Brigitte van Zundert and Lorena Varela-Nallar. Center for Biomedical Research, Faculty of Biological Sciences and Faculty of Medicine, Universidad Andres Bello, Santiago, Chile.
- 190. Effects of “peptides fingerprints” present in the venom of an endemic tarantula of Chile on hippocampal neurotransmission.** Kely Órdenes¹, Francisco J. Carvajal², Patricio R. Orrego¹, William Cortés¹, Yubitza Estay¹, Waldo Cerpa², Jorge E. Araya¹. ¹Universidad de Antofagasta, ²Pontificia Universidad Católica de Chile.

192. **Dopamine receptor D3 signalling in astrocytes promotes neuroinflammation.** Andro Montoya¹, María Rosa Bono², Rodrigo Pacheco^{1,3}. ¹Fundación Ciencia & Vida. ²Departamento de Biología, Facultad de Ciencias, Universidad de Chile. ³Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad Andrés Bello.
194. **Different neutrophils subpopulations respond during an acute inflammatory process: lessons from zebrafish.** Mariajosé Massri; Juan Pablo García-López and Carmen G. Feijóo. Laboratorio Inmunología en peces, Facultad Ciencias Biológicas, Universidad Andres Bello.
196. **Cyclodextrine-gold nanoparticles treatment in cellular models of Niemann-Pick type C disease.** Ramírez-Rojo C^{1,4}, Gallardo-Toledo E², Castro J⁴, Alvarez AR^{4,5}, Yañez C², Kogan M² and Zanlungo S³. ¹Facultad de Medicina, ²Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile ³Facultad de Medicina, ⁴Facultad de Ciencias Biológicas, ⁵CARE-CHILE-UC, Pontificia Universidad Católica de Chile.
198. **Connexin 43 participates in the proliferation of Tanycytes *in vitro*.** Recabal A¹, Fernández P², Caprile T², Sáez JC³, García MA¹. ¹Laboratorio de Biología Celular y ²Laboratorio de Guía Axonal, Facultad de Ciencias Biológicas, Universidad de Concepción. ³Laboratorio de Fisiología, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile.
200. **CK2 phosphorylation of Endothelin Converting Enzyme 1c promotes stemness and tumorigenicity in colorectal cancer.** Pérez P.¹, Mujica I.¹, Caamaño E.¹, Burzio V.², Muñoz J.P.¹, Aguayo F.¹, Tapia J.C.¹. ¹Department of Basic and Clinic Oncology, Faculty of Medicine, University of Chile; ²Fundacion Ciencia y Vida, Chile.
202. **Chascon and Jbug/Filamin are required for collective-epithelial migration during epithelium morphogenesis of *Drosophila melanogaster*.** Manieu C.^{1,2}, Villedieu A.², Rigaud S.², Bosveld F.², Assar R¹, Bellaïche Y², Olgúin P¹. ¹Programa de Genética, ICBM, Instituto de Neurociencia Biomédica, Departamento de Neurociencia, Facultad de Medicina, Universidad de Chile. ²Polarity, Division and Morphogenesis Lab., Institute Curie, Paris, France.
204. **Characterization of tanycytes in hypothalamus of adult zebrafish.** Ceriani R¹, Brown D² and Whitlock K.E¹. ¹Centro Interdisciplinario de Neurociencia de Valparaíso. CINV. ²Instituto de Biología. Universidad de Valparaíso.
206. **Characterization of Nrp-1 expression on tumor-bearing mice.** Pamina Contreras-Kallens, Tania Gajardo, Mauricio Campos-Mora, Karina Pino-Lagos. Centro de Investigación Biomédica, Facultad de Medicina, Universidad de los Andes.
208. **Characterization of intermediate filaments in glial cell after spinal cord injury of *Xenopus laevis*.** Karina Gonzalez^{1,2}, Gabriela Edwards-Faret¹, Juan Larraín¹. ¹CARE, Pontificia Universidad Católica de Chile, ²Universidad Arturo Prat.
210. **Characterization of a mouse neuronal cell line to study the role of reelin in dopaminergic system.** Vania Macías y María Paz Marzolo. Department of Cell and Molecular Biology, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile.
212. **Axonal secretory processing and export of L1CAM in CNS neurons.** Javiera Gallardo^{1,2}, Guillermo Moya³, Alejandro Luarte^{1,2}, Francisca Bronfman³, Andrés Couve^{1,2}. ¹Neuroscience Department, ²Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile; ³Program of Physiology, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile.

- 214. Astrocytes-derived-EVs modify neurogenesis under stress conditions: Preliminary results.** Roberto Henzi¹, Lorena Abarzúa-Catalán^{1,3}, Alejandro Luarte^{1,2}, Úrsula Wyneken¹. ¹Neuroscience Laboratory, Biomedical Research Center, Faculty of Medicine, Universidad de los Andes. ²Biomedical Neuroscience Institute, Universidad de Chile. ³Obstetrics and Gynaecology Department, Faculty of Medicine, Pontificia Universidad Católica de Chile.
- 216. Astaxanthin improves recognition memory and prevents nuclear traslocation of NF-KB, in aged rats.** Karla Cataldo¹, Alejandra Ponce¹, Patricio Farías¹, Daniela Meza¹, Carolina Estay¹, Tatiana Adasme^{2,3}, Cecilia Hidalgo² and Pablo Muñoz¹. ¹Department of Pathology and Physiology, School of Medicine, Universidad de Valparaiso. ²Biomedical Neuroscience Institute, Faculty of Medicine, Universidad de Chile. ³Centro Integrativo de Biología y Química Aplicada, Universidad Bernardo O'Higgins.
- 218. Antitumor effects of vitamin C deficiency on the progression of human glioblastoma multiforme models.** Nery Jara, Fernando Martínez and Francisco Nualart. Center for Advanced Microscopy CMA BIOBIO, Department of Cell Biology, University of Concepcion.
- 220. Antioxidant capacity of different molecules in human cell-lines using the Hydrogen peroxide biosensor HyPer.** Kallens V. Molina J, Tobar N, Hidalgo M, Martinez J and Porras O. Laboratorio de Biología Celular, INTA, Universidad de Chile.
- 222. Altered levels of DNA methyltransferases and demethylases in salivary glands from Sjögren's syndrome patients.** Daniela Jara, Carolina Lagos, Sergio Aguilera, Sergio González, Isabel Castro, María-José Barrera, Patricia Carvajal, Nicolás Albornoz, Claudio Molina, Cecilia Leyton and María-Julietta González. ICBM-Facultad de Medicina, Universidad de Chile.
- 224. Aloe vera exert an immunomodulatory effect on innate immune response in zebrafish.** K.I. Fehrmann², M.L. Allende¹ and C.G.Feijóo^{2,3}, ¹Center for Genome Regulation, Santiago, Chile; ²Departamento de Ciencias Biológicas, Universidad Andrés Bello, Santiago, Chile, ³Interdisciplinary Center for Aquaculture Research, Concepción, Chile.
- 226. Acute ethanol intoxication induces neurodegeneration through the impairment of NADPH oxidase and Nrf2 antioxidant pathway.** Rocio Loyola^{1,2,3}, Francisco Canelo^{1,2,3}, María J. Pérez^{1,2}, Alejandra Aranguiz^{1,2}, Claudia Jara^{1,2}, Cesar Osorio-Fuentealba^{2,3}, Rodrigo A Quintanilla^{1,2}. ¹Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, ²Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), ³UMCE, Santiago, Chile.
- 228. P₂Y₁/P₂Y₂ receptors can modulate Ca_v1.1 function in adult skeletal muscle.** Troc-Gajardo J.L.¹; Jaque-Fernández F.¹, Hidalgo J.¹, Jaimovich E.¹, Jacquemond V. and Casas M.¹. ¹Laboratory of Cellular Physiology of Muscle. ICBM. Faculty of Medicine. University of Chile.
- 230. Activation of mTORC1 pathway during differentiation of B lymphocytes induced by DNA damage.** Paola Ovarzo, Marcos Castro and Angara Zambrano. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile. Valdivia.
- 232. A novel inxin in *Trypanosoma cruzi* and its potential biological role.** J.Güiza¹, I.Barria¹, F.Solis², B.Valenzuela², P.Zamorano², J. González³, J.C.Sáez⁴, J.L.Vega¹. ¹Experimental Physiology Laboratory (EPhyL), Antofagasta Institute, Universidad de Antofagasta, Chile. ²Laboratorio de Microorganismos Extremófilos, Instituto Antofagasta, Universidad de Antofagasta, Chile. ³Molecular Parasitology Unit, Faculty of Health Sciences, Universidad de Antofagasta, Chile. ⁴Departamento de Fisiología, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile y Centro Interdisciplinario de Neurociencias de Valparaíso, Chile.

- 234. Role of α -SNAP on glucose homeostasis: insights from an in vivo model.** María Paz Miró^{1,2,3}, Melisa Aravena^{1,2}, Cristian Fernando¹, Tomás Contreras¹, Luis Federico Bádiz^{2,4}. ¹IAHP; ²CISNe; ³Escuela Postgrado; Universidad Austral de Chile. ⁴Centro de Investigación Biomédica (CIB), Fac. Medicina, Univ. de los Andes.
- 236. Aging restricts the ability of mesenchymal stem cells to induce oligodendrogenesis during CNS remyelination,** Maria Elena Silva^{1,2,3,4}, Alerie Guzman de la Fuente³, Chao Zhao³, Roman Wodnar³, Martina Feichtner², Simona Lange², Oihana Errea³, Ginez Gonzalez³, Robin J.M. Franklin³, Ludwig Aigner², Francisco J. Rivera^{1,2,3}. ¹Laboratory of Stem Cells and Neuroregeneration, Institute of Anatomy, Histology and Pathology, Faculty of Medicine & Center for Interdisciplinary Studies on the Nervous System (CISNe) Universidad Austral de Chile (UACH), Valdivia, Chile. ²Institute of Molecular Regenerative Medicine, Paracelsus Medical University, Salzburg, Austria. ³Wellcome Trust-MRC Cambridge Stem Cell Institute, University of Cambridge, United Kingdom. ⁴Institute of Pharmacy, Faculty of Sciences, UACH, Valdivia, Chile.
- 238. Altered F-actin dynamics in dysferlinopathy skeletal myocytes.** Ximena Báez-Matus¹, Cindel Figueroa¹, Arlek González-Jamett¹, Vincent Mouly², Pablo Caviedes³, Ana María Cárdenas¹. Centro Interdisciplinario de Neurociencias de Valparaíso (CINV), Universidad de Valparaíso¹. Institut de Myologie, INSERM/CNRS, Paris, France². Programa de Farmacología Molecular y Clínica, Facultad de Medicina, Universidad de Chile³.
- 240. Dissecting the IRE α /XBP1s axis in tumor-infiltrating immune cells by multiparametric flow cytometry.** D. Fernández, F. Osorio. Laboratorio de Inmunología y Estrés Celular, Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile.

19:00 – 20:00 PLENARY LECTURE

Puerto Rosales Room

Chair: Juan Larraín, P. Universidad Católica de Chile

MOLECULAR MECHANISMS OF NEURITE BRANCHING AND CENTRAL SYNAPSE FORMATION Dietmar Schmucker. Neuronal Wiring Lab, VIB Leuven, Belgium.

20:00 AWARDS CEREMONY

Puerto Rosales Room

Nikon - Loncotec: Best Images in Cell Biology

Genexpress: Best Presentations in Oral and Poster Communications

20:45

Closing Remarks

Puerto Rosales Room

Chair: Francisca Bronfman, President SBCCH, P. Universidad Católica de Chile

21:30

Dinner