

# **CHILEAN SOCIETY FOR CELL BIOLOGY**

## **XXX ANNUAL MEETING**

**November, 2 – 6, 2016**

**Puerto Varas, Chile**

### *SPONSORS*

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### *EXHIBITORS*

**ARQUIMED – BD BIOSCIENCES – BIOSCHILE IGSA**

**BIOSONDA – CIENTEC – FERMELO – GENEXPRESS**

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**MERCK QUIMICA CHILE – TECNOLOGIA Y CIENCIA LTDA**

**CHILEAN SOCIETY FOR CELL BIOLOGY  
XXX ANNUAL MEETING  
NOVEMBER 2-6, 2016 - PUERTO VARAS**

**PROGRAM AT A GLANCE**

**WEDNESDAY, NOVEMBER 2, 2016**

**09:00 – 13:30 Registration - Convention Center Foyer**

**11:30 – 12:30 Technical Lectures – Calbuco Room**

**12:30 – 14:30 Lunch**

**14:30 – 15:30 Opening Remarks - Volcanes Room  
PLENARY LECTURE “LUIS IZQUIERDO FERNANDEZ”**

**15:30 – 16:30 Coffee Break – Exhibitors - Convention Center Foyer**

**16:30 – 18:30 Oral Presentations I - Volcanes Room**

**18:30 – 20:30 SYMPOSIUM “A CELEBRATION OF CELL BIOLOGY I” - Volcanes Room**

**20:30 Dinner**

**22:00 – 23:00 PLENARY LECTURE “FEDERICO LEIGHTON PUGA” - Volcanes Room**

**THURSDAY, NOVEMBER 3, 2016**

**08:00 Poster Mounting Session I - Convention Center Foyer**

**09:00 – 11:00 Oral Presentations II - Volcanes Room**

**10:30 – 13:00 Schools and Science - Maullin Room**

**11:00 – 13:00 Poster Viewing Session I - Convention Center Foyer**

**13:00 – 15:30 Lunch**

**15:30 – 17:30 SYMPOSIUM “A CELEBRATION OF CELL BIOLOGY II” - Volcanes Room**

**17:00 – 19:30 Schools and Science - Maullin Room**

**17:30 – 19:30 Poster Viewing Session I - Convention Center Foyer**

**19:30 – 20:30 PLENARY LECTURE - Volcanes Room**

**20:30 Dinner**

**22:30 – 23:30 BEST THESES AWARDS - Volcanes Room**

**FRIDAY, NOVEMBER 4, 2016**

- 08:00** Poster Mounting Session II - Convention Center Foyer  
**09:00 – 10:30** Oral Presentations III - Volcanes Room
- 10:30 – 12:00** Poster Viewing Session II - Convention Center Foyer
- 10:30 – 13:00** Schools and Science - Maullin Room
- 12:00 – 14:00** *SYMPOSIUM* “CELL MIGRATION: FROM MICROFLUIDICS TO *IN VIVO* IMAGING” - Calbuco Room  
*ROUNDTABLE* “WOMEN IN SCIENCE” - Tronador Room
- 14:00 – 15:15** Lunch
- 15:15 – 17:15** *SYMPOSIUM* “GETTING IN AND OUT THE SECRETORY PATHWAY IN A SYNCHRONIZED MANNER” - Calbuco Room  
*SYMPOSIUM* “NUCLEAR RECEPTORS IN THE NERVOUS SYSTEM: A TRIBUTE TO MIGUEL BRONFMAN AGUILO” - Tronador Room
- 17:15 – 18:15** PLENARY LECTURE - Volcanes Room
- 17:15 – 19:15** Schools and Science: - Maullin Room
- 18:15 – 19:45** Poster Viewing Session II - Convention Center Foyer
- 19:30** Society Members Meeting  
**21:00** Dinner

**SATURDAY, NOVEMBER 5, 2016**

- 08:00** Poster Mounting Session III - Convention Center Foyer
- 09:00 – 10:30** Oral Presentations IV - Volcanes Room
- 10:30 – 13:00** Schools and Science - Maullin Room
- 10:30 – 12:30** Poster Viewing Session III - Convention Center Foyer
- 13:00 – 15:00** Lunch
- 15:00 – 17:00** *SYMPOSIUM* “FLY ME TO GENETICS AND CELL BIOLOGY” - Calbuco Room  
*SYMPOSIUM* “THERAPEUTIC GENOME EDITING” - Tronador Room
- 17:00 – 19:30** Schools and Science - Maullin Room
- 17:00 – 19:00** Poster Viewing Session III - Convention Center Foyer
- 19:00 – 20:00** CLOSING LECTURE “SOCIEDAD DE BIOLOGIA CELULAR DE CHILE”  
 Volcanes Room
- 20:00** AWARDS CEREMONY - Volcanes Room
- 20:45** Closing Remarks – Volcanes Room  
**21:30** Dinner Party

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

**NOVEMBER 2-6, 2016  
PUERTO VARAS**

**P R O G R A M**

**WEDNESDAY, NOVEMBER 2, 2016**

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

**11:30 – 12:30 Technical Lectures – Calbuco Room**  
Abcam – Biosonda  
**Tools to investigate apoptosis markers**  
**Miriam Ferrer**, Product Manager, Cellular Assays, Abcam

**12:30 – 14:30 Lunch**

**14:30 – 15:30 Opening Remarks**  
Volcanes Room  
**Chair: Andres Couve, President SBCCH, Universidad de Chile**

**PLENARY LECTURE “LUIS IZQUIERDO FERNANDEZ”**

*Language: Spanish*

Chilean Society for Cell Biology

**Chairs: Alejandra Alvarez, P. Universidad Católica de Chile**  
**Mario Roseblatt, Fundación Ciencia & Vida**

**ÉRASE UNA VEZ, LA INMUNOLOGÍA. María Rosa Bono**, Departamento de Biología, Facultad de Ciencias, Universidad de Chile.

**15:30 – 16:30 Coffee Break – Exhibitors**  
Convention Center Foyer

**16:30 – 18:30 Oral Presentations I**  
Volcanes Room  
**Chairs: Verónica Eisner, P. Universidad Católica de Chile**  
**Gonzalo Mardones, Universidad Austral de Chile**

**16:30 Pericytes boost oligodendrocyte differentiation during CNS remyelination. Francisco Rivera<sup>1,2,3</sup>, Simona Lange<sup>1</sup>, Alerie Guzman De La Fuente<sup>2</sup>, Maria Silva<sup>1,2,3,4</sup>, Herbert Tempfer<sup>5</sup>, Peter van Wijngaarden<sup>2</sup>, Chao Zhao<sup>2</sup>, Andrea Trost<sup>1,6</sup>, Ginez Gonzalez<sup>2</sup>, Oihana Errea<sup>2</sup>, Maarja Mäe<sup>7</sup>, Johanna Andrae<sup>7</sup>, Liqun He<sup>7</sup>, Christer Betsholtz<sup>7</sup>, Ludwig Aigner<sup>1</sup>, Robin Franklin<sup>2</sup>.** <sup>1</sup>Institute of Molecular Regenerative Medicine & SCI-TReCS, Paracelsus Medical University Salzburg (PMU), Austria. <sup>2</sup>Wellcome Trust and MRC Cambridge Stem Cell Institute, University of Cambridge, United Kingdom. <sup>3</sup>Laboratory of Stem Cells and Neuroregeneration, Institute of Anatomy, Histology and Pathology, Faculty of Medicine & CISNe, Universidad Austral de Chile, Valdivia, Chile. <sup>4</sup>Institute of Pharmacy, Universidad Austral de Chile, Valdivia, Chile. <sup>5</sup>Institute for Tendon and Bone Regeneration, PMU, Austria. <sup>6</sup>Research Program for Experimental Ophthalmology, PMU, Austria. <sup>7</sup>Department of Immunology, Rudbeck Laboratory, Uppsala University, Sweden.

**16:45 VEGFRs signaling in carcinoma-associated fibroblast is required for the maintenance of its activated phenotype. Javier Cerda-Infante<sup>1,2</sup>, Camila Brizuela<sup>1</sup>, Marianela Sánchez<sup>1</sup>, Alejandro Godoy<sup>3</sup>, Enrique Brandan<sup>2</sup>, and Viviana P Montecinos<sup>1</sup>.**

Departments of <sup>1</sup>Hematology-Oncology, <sup>2</sup>Cellular and Molecular Biology, and <sup>3</sup>Physiology, Pontificia Universidad Católica de Chile.

- 17:00 Down syndrome critical region gene 1 or RCAN1 regulates mitochondrial dynamics and function in cardiomyocytes and Down syndrome induced pluripotent stem cells.** Valentina Parra<sup>1,2</sup>, Francisco Altamirano<sup>2</sup>, Victoria Kyrychenko<sup>2</sup>, David Rotter<sup>2</sup>, Joseph A. Hill<sup>2</sup>, Sergio Lavandero<sup>1,2</sup>, Jay W. Schneider<sup>2</sup>, Beverly A. Rothermel<sup>2</sup>. <sup>1</sup>Advanced Center for Chronic Diseases (ACCDiS), Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile. <sup>2</sup>Department of Internal Medicine/Cardiology, University of Texas Southwestern Medical Center, Dallas, USA.
- 17:15 c-Abl mediates tyrosine TFEB phosphorylation and its cytoplasmic localization: implications in the NPC cholesterol lysosomal storage disease.** Contreras P.S.<sup>1,2,3</sup>, González-Hódar L.<sup>3</sup>, Klein A.D.<sup>4</sup>, Medina D.L.<sup>4</sup> Ballabio A.<sup>4</sup> Zanello S.<sup>3</sup> Alvarez A.R.<sup>1,2</sup>. <sup>1</sup>Laboratorio Señalización Celular, <sup>2</sup>CARE-Chile-UC, <sup>3</sup>Escuela de Medicina, Pontificia Universidad Católica de Chile. <sup>4</sup>Telethon Institute of Genetics and Medicine (TIGEM).
- 17:30 Role of the endoplasmic reticulum (ER) stress sensor IRE1 in DNA damage responses.** Estefanie Dufey<sup>1,2</sup>, José Bravo<sup>3</sup>, Hery Urra<sup>1,2</sup>, Cristian Eggers<sup>4</sup>, Denise Sepulveda<sup>1,2</sup>, Diego Acosta-Alvear<sup>5</sup>, Alvaro Glavic<sup>4</sup>, Guido Kroemer<sup>2</sup>, Peter Walter<sup>5</sup> and Claudio Hetz<sup>1,2</sup>. <sup>1</sup>Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, <sup>2</sup>FONDAP Center for Brain Health and Metabolism, <sup>3</sup>INSERM, France. <sup>4</sup>Faculty of Sciences, University of Chile. <sup>5</sup>University of California, USA.
- 17:45 Are the expression and sulfation of mucins affected by pro-inflammatory cytokines in salivary glands of Sjögren's syndrome patients?** I. Castro, I. Brockhausen, S. Aguilera, MJ. Barrera, J. Cortés, S. González, C. Molina, U. Urzúa, C. Leyton, MJ. González. Facultad de Medicina, Universidad de Chile.
- 18:00 Transient Receptor Potential Mucolipin links phagocytic processing with cell migration in *Drosophila melanogaster* macrophages.** Sandra Edwards<sup>1</sup>, Ana-María Lennon<sup>2</sup>, Álvaro Glavic<sup>1</sup>. <sup>1</sup>Developmental Biology Laboratory, Faculty of Sciences, Universidad de Chile. <sup>2</sup>U932 Inserm, Institut Curie.
- 18:15 Effect of vitamin C recycling between neuron-astrocyte in neural cells differentiation.** Espinoza F., Martínez F., Salazar K., Nualart F. Centro de Microspía Avanzada CMA BIO BIO, University of Concepción.

**18:30 – 20:30 SYMPOSIUM “A CELEBRATION OF CELL BIOLOGY I”**

**Volcanes Room**

**Chair: Christian Gonzalez, Universidad de Chile**

**MOVING AND REMOVING MITOCHONDRIA.** Thomas L. Schwarz. F.M. Kirby Neurobiology Center Children's Hospital, Boston and Dept. of Neurobiology, Harvard Medical School, Boston, MA, USA.

**POLARITY REVERSAL BY CENTROSOME REPOSITIONING PRIMES CELL SCATTERING DURING EPITHELIAL TO MESENCHYMAL TRANSITION.** Manuel Thery, U. Grenoble Alpes & U. Paris Diderot, France.

**DIRECTING TRAFFIC, DIVERSITY AND DIABETES. Frances M. Brodsky**, University College London, UK.

**20:30 Dinner**

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

**Fundación Ciencia & Vida**

**Volcanes Room**

**Chair: Andres Couve, President SBCCH, Universidad de Chile**

**STUMBLING ON THE SECRET OF CELL DIVISION...Tim Hunt**, The Francis Crick Institute, 1 Brill Place, London NW1 1BF, U.K. and OIST, 1919-1 Tancha, Onna-son, Okinawa, 904-0495, Japan.

**THURSDAY, NOVEMBER 3, 2016**

**08:00**           **Poster Mounting Session I: N° 1 to N° 72**  
**Convention Center Foyer**

**09:00 – 11:00** **Oral Presentations II**  
**Volcanes Room**  
**Chairs: Maite Castro, Universidad Austral de Chile**  
**Elías Utreras, Universidad de Chile**

- 09:00** **Force measurement at B cell immune synapse. Anita Kumari**, Pablo J. Sáez, Danielle Lankar, Mathieu Maurin, Vanessa Boura, Dorian Obino, Katharina Hennig, Mikael Karlsson, Martial Balland, Ana-Maria Lennon and Paolo Pierobon. Institute Curie, Paris, France.
- 09:15** **Chaski a novel monocarboxylic acid transporter expressed in Central Nervous System of *Drosophila*. María Graciela Delgado**<sup>2</sup>, Carlos Oliva<sup>2</sup>, Estefanía López<sup>2,3</sup>, Andrés González<sup>2,3</sup>, Andrés Ibacache<sup>2</sup>, Ricardo Delgado<sup>4</sup>, L.Felipe Barros<sup>5</sup> and Jimena Sierralta<sup>1,2,3</sup>. <sup>1</sup>Program of Physiology and Biophysics, <sup>2</sup>BNI, Faculty of Medicine; <sup>3</sup>DRIDANS, <sup>4</sup>Department of Biology, Faculty of Sciences, Universidad de Chile and <sup>5</sup>Centro de Estudios Científicos, Valdivia, Chile.
- 09:30** **Differential timing of macrophage recruitment and its role during tissue regeneration in zebrafish. Rodrigo A. Morales**, Mario Sánchez, Emiliano Molina, Miguel L. Allende. FONDAF Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile.
- 09:45** **Denervation-induced fibrosis is modulated by CTGF and HIF-1 $\alpha$ . Daniela Rebolledo**<sup>1</sup>, David Gozalez<sup>1</sup>, Osvaldo Contreras<sup>1</sup>, Gail Walkinshaw<sup>2</sup>, Ken Lipson<sup>2</sup>, Enrique Brandan<sup>1</sup>. <sup>1</sup>CARE, Pontificia Universidad Católica de Chile. <sup>2</sup>FibroGen Inc, USA.
- 10:00** **Distribution and function of the Wnt receptor Frizzled-9 at the normal and denervated neuromuscular junction. Jorge Ojeda**<sup>1,2</sup>, Francisca Bermedo-García<sup>1,2</sup>, Rocío Tejero<sup>3</sup>, Mario López<sup>3</sup>, Lucía Tabares<sup>3</sup>, Juan Díaz<sup>1</sup>, Juan Pablo Henríquez<sup>1,2</sup>. <sup>1</sup>Universidad de Concepción; <sup>2</sup>MINREB; Concepcion, Chile; <sup>3</sup>Universidad de Sevilla, España.
- 10:15** **The autism-associated tyrosine phosphatase Ptp<sup>rd</sup> regulates neural stem cell biology. Cancino GI**. Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile and Hospital for Sick Children/University of Toronto, Canada.
- 10:30** **Three dimensional transport processes by single molecule tracking (SMT), simultaneously evaluating protein transport and ER-dynamics. Jorge Toledo**<sup>1,2,3</sup>, Emiliano Molina<sup>2,3</sup>; Felix Urrea<sup>4</sup>, Mauricio Cerda<sup>2,3</sup>, Felipe Santibáñez<sup>2,3</sup>, Steffen Härtel<sup>2,3</sup>, Andrés Couve<sup>1,3</sup>. <sup>1</sup>Laboratory of Cellular and Molecular Neurobiology, <sup>2</sup>Laboratory of Scientific Image Analysis, SCIAN-Lab, <sup>3</sup>Biomedical Neuroscience Institute (BNI), UChile, <sup>4</sup>Laboratory of Cellular-Metabolism and Bioenergetics, UChile.
- 10:45** **Silencing of Rab11-Binding-Protein (Rab11BP) fragments the Golgi and decreases TGN46 protein levels. Beatriz Vásquez**<sup>1</sup>, Claudio Retamal<sup>1,2</sup>, Jie Li<sup>3</sup>, Mindong Ren<sup>3</sup>, Milton Adesnik<sup>3</sup>, David D. Sabatini<sup>3</sup> and Alfonso González<sup>1,2</sup>. <sup>1</sup>Centro de



Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>Facultad de Ciencia and Facultad de Medicina, Universidad San Sebastián, Santiago, Chile. <sup>3</sup>Department of Cell Biology, New York University School of Medicine, New York, NY, USA.

**10:30 – 13:00 Schools and Science: Students from South of Chile  
at the Chilean Society for Cell Biology**

**Maullin Room**

**11:00 – 13:00 Poster Viewing Session I: 1-72 Odd Numbers  
Convention Center Foyer**

- 01. Leptin promotes a pro-tumoral miRNA sorting of exosomes in high-grade serous ovarian cancer cells. Abarzúa-Catalán, L., Kato, S., Liberona, F., Cuello, MA. Division of Obstetrics and Gynecology, Faculty of Medicine, Pontificia Universidad Católica de Chile, Santiago, Chile.**
- 03. New formulation based on anti-atrophic peptides and dendrimers for skeletal muscle atrophy treatment. Ábrigo, J.<sup>1,3</sup>, Márquez-Miranda<sup>2,5</sup>, V., Rivera, JC.<sup>1,3</sup>, Araya-Durán<sup>2</sup>, I., Aravena, J.<sup>1,3</sup>, Pacheco, N.<sup>3</sup>, González-Nilo, F.<sup>2,4,5</sup>, Cabello-Verrugio, C.<sup>1,3</sup>. <sup>1</sup>Laboratory of Biology and Molecular Physiopathology, Universidad Andres Bello. <sup>2</sup>CBIB, Universidad Andrés Bello. <sup>3</sup>IMII, Santiago. <sup>4</sup>Centro Interdisciplinario de Neurociencia de Valparaíso, Universidad de Valparaíso, Valparaíso, Chile. <sup>5</sup>Fundación Fraunhofer Chile Research, Santiago, Chile.**
- 05. Restoration of vascular connectivity after localized blood vessel damage in larval zebrafish. Geraldine Aedo<sup>1</sup>, Jose T. Egaña<sup>2</sup>, Myra N. Chávez<sup>1</sup>, Brant Weinstein<sup>3</sup>, Marina Venero-Galanternik<sup>3</sup>, Miguel L. Allende<sup>1</sup>. <sup>1</sup>FONDAP Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile, Santiago, Chile. <sup>2</sup>Pontificia Universidad Católica de Chile, Instituto de Ingeniería Biológica y Médica, Chile. <sup>3</sup>Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD 20892, US.**
- 07. Tauroursodeoxycholic acid decreases expression of ERAD components induced by pro-inflammatory cytokines. Albornoz N., Barrera MJ, Aguilera S, Castro I, González S, Molina C, Urzúa U, Leyton C and González MJ. ICBM-Facultad de Medicina, Universidad de Chile.**
- 09. miRNA-21 from prostate cancer exosomes modify tumor microenvironment. Eliana Andahur, Christian Ramos, Juan Fulla, Catherine Sánchez. Clínica Las Condes, Chile.**
- 11. Runx2 transcription factor regulates expression of secreted immune evasion proteins in osteosarcoma. Héctor Araya<sup>1,4</sup>, Andre van Wijnen<sup>2</sup>, Flavio Salazar<sup>3,4</sup>, Mario Galindo<sup>1,4</sup>. <sup>1</sup>Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. <sup>2</sup>Department of Orthopedic Surgery & Biochemistry and Molecular Biology, Mayo Clinic, Rochester, USA. <sup>3</sup>Programa de Immunología, ICBM, Facultad de Medicina, Universidad de Chile. <sup>4</sup>Instituto Milenio en Immunología e Immunoterapia.**
- 13. Coagulation Factor Xa promotes melanoma cell metastasis. Arce M<sup>1,7</sup>, Erices R<sup>1</sup>, Velasquez E<sup>1,3</sup>, Oliva B<sup>1</sup>, Ramirez C<sup>1</sup>, Lobos L<sup>4,5</sup>, Quest AF<sup>2,6,7</sup>, Owen GI<sup>1,6,7,8</sup>. <sup>1</sup>Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. <sup>2</sup>Facultad de Medicina, Universidad de Chile. <sup>3</sup>Comisión Chilena de Energía Nuclear, <sup>4</sup>Fundacion Ciencia & Vida, <sup>5</sup>Millennium Institute on Immunology and Immunotherapy. <sup>6</sup>Centro UC Investigación en Oncología, <sup>7</sup>Centro de Estudios Avanzados de Enfermedades Crónicas (ACCDIS), <sup>8</sup>Biomedical Research Consortium of Chile (BMRC).**
- 15. Wnt signaling effects on differentiation and development of neural progenitor cells derived from adult hippocampus. Sebastian B. Arredondo<sup>1</sup>; Joaquín Jensen-Flores<sup>1</sup>, Fernanda Guerrero<sup>1</sup>, Nibaldo C.**

Inestrosa<sup>2</sup> and Lorena Varela-Nallar<sup>1</sup>. Centro de Investigaciones Biomédicas (CIB), Facultad de Ciencias Biológicas y Facultad de Medicina, Universidad Andrés Bello; <sup>2</sup>Centro de Envejecimiento y Regeneración (CARE UC), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.

17. **GLUT2 inhibition in the brain affects gut ghrelin expression and increases food intake.** Barahona MJ, García-Robles MA. Laboratorio de biología celular. Facultad de Ciencias Biológicas, Universidad of Concepción, Concepción, Chile.
19. **Pannexin-1 mediate *Trypanosoma cruzi* invasion into cardiac myocytes.** Iván Barria<sup>1</sup>, Juan Güiza<sup>1</sup>, Jorge González<sup>2</sup>, Juan C. Sáez<sup>3,4</sup>, and José L. Vega<sup>1</sup>. <sup>1</sup>Laboratorio de Fisiología Experimental (EPHyL), Instituto Antofagasta, Universidad de Antofagasta, Antofagasta, Chile. <sup>2</sup>Departamento de Tecnología Médica, Universidad de Antofagasta, Antofagasta, Chile. <sup>3</sup>Departamento de Fisiología, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>4</sup>Centro Interdisciplinario de Neurociencias de Valparaíso, Valparaíso, Chile.
21. **Extraction of the venom of the Chilean recluse spider, *Loxosceles laeta*, and toxicity testing on cultured human fibroblasts and sheep blood agar.** Berteau, C., Flores, C., Martínez, A., Olivares, J., Naranjo, D., Schmachtenberg, O. CINV, Universidad de Valparaíso.
23. **Role of *Helicobacter pylori* gamma-glutamyltranspeptidase in autophagy of human gastric cancer cells.** Bravo, J.<sup>1, 3</sup>, Corvalán, A.H.<sup>2, 3</sup> and Quest, A.F.G.<sup>1, 3</sup>. <sup>1</sup>Laboratory of Cellular Communication, Faculty of Medicine, University of Chile. <sup>2</sup>Centro de Investigación en Oncología, Facultad de Medicina, Pontificia Universidad Católica de Chile. <sup>3</sup>Advanced Center for Chronic Diseases (ACCDiS).
25. **Nedd4 function in myogenic progenitors: impact on muscle regeneration.** Felipe Cabezas M. and Hugo Olguín. Depto. Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.
27. **DNA damage induces modifications on epigenetics marks in CRT2 target genes.** Constanza Cárcamo, David León, Sarai Morales and Angara Zambrano. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile. Valdivia.
29. **Kinetics of SVCT2 trafficking through early secretory and endocytic pathways.** Covarrubias-Pinto A.<sup>1,4</sup>, Acuña A.I.<sup>1,4</sup>, Boncompain G.<sup>2</sup>, Pápic E.<sup>1,4</sup>, Burgos P.V.<sup>3,4</sup>, Perez F.<sup>2</sup> and Castro M.A.<sup>1,4</sup>. <sup>1</sup>Molecular Metabolism Laboratory, Universidad Austral de Chile (UACH), <sup>2</sup>Institut Curie, <sup>3</sup>Department of Physiology, UACH, <sup>4</sup>CISNe-Center-for-Interdisciplinary-Studies-on-the-Nervous-System, UACH.
31. **Identification of novel regulators of Amyloid Precursor Protein trafficking by proteomic and RUSH system analysis.** Cristóbal Cerda-Troncoso<sup>1,2</sup>, Viviana A. Cavieres<sup>1,2</sup>, Hianara A. Bustamante<sup>1,2</sup>, Franck Perez<sup>3</sup>, Gonzalo A. Mardones<sup>1,2</sup>, Stephanie Miserey-Lenkei<sup>4</sup>, and Patricia V. Burgos<sup>1,2</sup>. <sup>1</sup>Department of Physiology, School of Medicine, Universidad Austral de Chile; <sup>2</sup>Center for Interdisciplinary Studies on the Nervous System, Universidad Austral de Chile; <sup>3</sup>Molecular Mechanisms of Intracellular Transport Group, Institut Curie; <sup>4</sup>Dynamics of Intracellular Organization, Institut Curie.
33. **Exosomes from menstrual mesenchymal stem cells modulate cell survival, neuritic outgrowth and synaptic establishment.** Cisternas P<sup>1</sup>, Lopez-Verrilli MA<sup>2,3</sup>, Caviedes A<sup>1</sup>, Sandoval S<sup>1</sup>, Gomez MT<sup>1</sup>, Khoury M<sup>2,3,4</sup>, Wyneken U<sup>1</sup>. <sup>1</sup>Laboratory of Neuroscience and <sup>2</sup>Laboratory of Nano-Regenerative Medicine, Centro de Investigaciones Biomédicas, Faculty of Medicine, Universidad de Los Andes, Santiago, Chile. <sup>3</sup>Cells for Cells, Santiago, Chile. <sup>4</sup>REGENERO, Consortium in Tissue Engineering, Santiago, Chile.
35. **Tcf4 (Tcf7L2) transcription factor is a master regulator of mesenchymal cell differentiation: TGF- $\beta$  regulates its stability by a Proteasome-Ubiquitin System.** Oswaldo Contreras and Enrique Brandan.

Department of Cell and Molecular Biology, Faculty of Biological Sciences, CARE Chile-UC, Pontificia Universidad Católica de Chile.

- 37. Selective vulnerability of drug-resistant leukemia cells by Inositol 1, 4, 5-trisphosphate receptor inhibition. Pablo Cruz**, Galdo Bustos, Ulises Ahumada, Fabián Jaña, César Cárdenas. Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile, Geroscience Center for Brain Health and Metabolism, Santiago, Chile.
- 39. Expansion of osteoblastic differentiation potential in human Wharton's Jelly Mesenchymal Stem Cells (hWJ-MSCs) through epigenetic modulation of bone-master gene *RUNX2*. Lorena Díaz<sup>1</sup>**, Catalina Prieto<sup>1</sup>, Hugo Sepúlveda<sup>2</sup>, Margarita Carrasco<sup>2</sup>, Francisco Bustos<sup>1,2</sup>, Martin Montecino<sup>2</sup>, Verónica Palma<sup>1</sup>. <sup>1</sup>CTYBD Laboratory, University of Chile, Chile. <sup>2</sup>Center for Biomedical Research and FONDAPEP, Andres Bello University, Chile.
- 41. The role of glial cells in spinal cord regeneration in *Xenopus laevis*. Gabriela Edwards-Faret<sup>1</sup>**, Arantxa Cebrian-Silla<sup>2</sup>, Emilio Méndez-Olivos<sup>1</sup>, José Manuel García-Verdugo<sup>2</sup>, Juan Larraín<sup>1</sup>. <sup>1</sup>CARE, MINREB, Pontificia Universidad Católica de Chile, <sup>2</sup>Universidad de Valencia.
- 43. Preconditioning of mesenchymal stem cells with deferoxamine increases the production of pro-angiogenic, neuroprotective and anti-inflammatory factors: Potential application in diabetic neuropathy treatment.** Carolina Osés<sup>1</sup>, Belen Olivares<sup>2</sup>, Marcelo Ezquer<sup>1</sup>, Fernando Ezquer<sup>1</sup>. <sup>1</sup>Centro de Medicina Regenerativa, Facultad de Medicina, Universidad del Desarrollo. <sup>2</sup>Centro de Química Médica, Facultad de Medicina, Universidad del Desarrollo.
- 45. Oxidation of vitamin C induces neuronal death and alterations in distribution of GLUT1/SVCT2 and mitochondrial size. Luciano Ferrada**, Camila Albarrán, Katterine Salazar and Francisco Nualart. Centro de Microscopía Avanzada, CMA BIOBIO, Laboratorio de Neurobiología y Células Madres Neuro-CellTT, Universidad de Concepción, Concepción, Chile.
- 47. Role of PD-L2 in B lymphocytes during the development of lupus. Fuenzalida M.J.**, Hidalgo Y., Roseblatt M., Sauma, D., Bono M.R. Departamento de Biología, Facultad de Ciencias, Universidad de Chile. Fundación Ciencia & Vida. Santiago, Chile.
- 49. Role of *Drosophila* monocarboxylate transporters (MCTs) in the adaptive response to nutritional restriction during development. Andrés González**, Estefanía López, Andrés Ibacache, María Graciela Delgado and Jimena Sierralta. Laboratory of Cellular and Molecular Neurobiology, ICBM and BNI, Faculty of Medicine, Universidad de Chile.
- 51. Efficient gene transfer into muscle cells to analyze the effect of Wnt signaling on nerve-independent postsynaptic structures *in vitro*.** Jessica Mella, Viviana Pérez, Nicolás Moreno, Juan Pablo Henríquez. Department of Cell Biology, MINREB, University of Concepción, Concepción, Chile.
- 53. Physiological and regenerative neurogenesis in the frog *Xenopus laevis*. Mauricio A. Herrera**, Johany Peñailillo and Juan Larraín. CARE, MINREB, Department of Cellular and Molecular Biology, Pontificia Universidad Católica de Chile.
- 55. Truncated tau induces mitochondrial dynamics impairment in Alzheimer's disease. C. Jara<sup>1</sup>**, M. J. Pérez<sup>1</sup>, I. Morales<sup>1</sup> and R. A. Quintanilla<sup>1,2</sup>. <sup>1</sup>Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, Santiago, Chile. <sup>2</sup>Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA).

- 57. Modulation of recombinant and native glycine receptors by *Gelsemium* genus alkaloids.** Cesar O. Lara, Pablo Murath, Braulio Muñoz, Ana M. Marileo, Victoria P. San Martín, Gonzalo E. Yévenes. Department of Physiology, University of Concepción, Chile.
- 59. Vaccination-induced skin-resident memory CD8<sup>+</sup> T cells mediate rejection of cutaneous melanoma in mice.** Ernesto Lopez<sup>1\*</sup>, Felipe Gálvez-Cancino<sup>1\*</sup>, Camila Flores<sup>1</sup>, Evelyn Menares<sup>1</sup>, Sebastián Cruz<sup>1</sup>, Sofía Hidalgo<sup>1</sup>, Eduardo Durán<sup>1</sup>, César Oyarce<sup>1</sup>, Alvaro Lladser<sup>1</sup>. <sup>1</sup>Laboratory of Gene Immunotherapy, Fundación Ciencia & Vida, Santiago, Chile.
- 61. Muscle-tendon interaction is required for epithelium morphogenesis of *Drosophila melanogaster*.** Manieu C.<sup>1</sup>, Manríquez G.<sup>1</sup>, Bosveld F.<sup>2</sup>, Bellaïche Y.<sup>2</sup>, Olguín P.<sup>1</sup>. <sup>1</sup>Lab. Genética del Desarrollo de *Drosophila*, Programa de Genética, ICBM, BNI, Facultad de Medicina, Universidad de Chile. <sup>2</sup>Polarity, Division and Morphogenesis Lab., Institute Curie, Paris, France.
- 63. IRE1/XBP1 pathway: differential role in learning and memory processes.** G. Martínez, R.L. Vidal, P. Mardones, J.P. Vivar, C. Jerez, V. LeGall, F. Cabral-Miranda and C. Hetz. Center for Integrative Biology, Universidad Mayor. Biomedical Neuroscience Institute, Center for Molecular Studies of the Cell, ICBM, Faculty of Medicine, University of Chile. Neurounion Biomedical Foundation, Santiago, Chile.
- 65. BDNF regulates Rab5 and Rab11 monomeric GTPase activity and dynamics to induce dendritic growth.** Moya-Alvarado G., González A, Stuardo N, Bronfman FC. MINREB and Center for Ageing and Regeneration (CARE, UC), Department of Physiology, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile, Santiago, Chile.
- 67. Role of Rho GTPases in regulation of cytoskeleton in ATP-dependent GLUT4 translocation in skeletal muscle cells.** <sup>\*</sup>César Osorio-Fuentealba, <sup>\*</sup>Erick Vergara, <sup>¥</sup>Amira Klip and <sup>‡</sup>Enrique Jaimovich. <sup>\*</sup>Laboratorio de Biología Molecular, Celular y Metabolismo, UMCE. <sup>†</sup>Escuela de Kinesiología, UBO. <sup>¥</sup>Cell Biology Program, Research Institute, The Hospital for Sick Children, Toronto, Canada. <sup>‡</sup>Centro de Estudio Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile.
- 69. Quantitative proteomics of spinal cord regeneration in the African clawed frog *Xenopus*.** Dasfne Lee-Liu<sup>1</sup>, Liangliang Sun<sup>2</sup>, Norman Dovichi<sup>2</sup> and Juan Larraín<sup>1</sup>. <sup>1</sup>CARE Chile UC, MINREB, Dpto. Biología Celular y Molecular, Fac. Ciencias Biológicas, Pontificia Universidad Católica de Chile; <sup>2</sup>Dept. of Chemistry and Biochemistry, University of Notre Dame.
- 71. Role of Reticulon-4b on the transdifferentiation of fibroblasts to myofibroblasts.** Rodríguez-Peña M<sup>1\*</sup>, Villalobos E<sup>1</sup>, Leiva S<sup>1</sup>, García L<sup>1</sup>, Quest AFG<sup>1</sup>, Lavandero S<sup>1,2</sup>. <sup>1</sup>Advanced 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. <sup>2</sup>Department of Internal Medicine, UT Southwestern Medical Center, Dallas.

**13:00 – 15:30 Lunch**

**15:30 – 17:30 SYMPOSIUM “A CELEBRATION OF CELL BIOLOGY II”**

**Volcanes Room**

**Chair: Maria Paz Marzolo, P. Universidad Católica de Chile**

**A PHYSICAL MAP OF A HUMAN CELL.** Anne-Claude Gingras. Lunenfeld –Tanenbaum Research Institute, Canada.

**CELL DEATH AND RESUSCITATION: TO THE EDGE OF NECROPTOSIS AND BACK.** Douglas R. Green, Department of Immunology, St. Jude Children’s Research Hospital, Memphis, TN USA.

**MECHANOBIOLOGY: FROM EXTRACELLULAR MATRIX TO NUCLEAR LAMINAS, & FROM EARLY DEVELOPMENT TO CANCERS.** Dennis E. Discher, Robert D. Bent Professor, Molecular & Cell Biophysics Lab, Physical Sciences in Oncology Center @ Penn (psoc.seas.upenn.edu) University of Pennsylvania, Philadelphia, PA, USA.

**17:00 – 19:30 Schools and Science: Students from South of Chile**  
at the Chilean Society for Cell Biology

**Maullin Room**

**17:30 – 19:30 Poster Viewing Session I: 1-72 Even Numbers**  
Convention Center Foyer

- 02. Cultured ALS astrocytes display epigenetic changes.** Abarzúa S<sup>1,2</sup>, Rojas F<sup>1</sup>, Martínez P<sup>1</sup>, Montecino M<sup>1,2</sup>, van Zundert B<sup>1</sup>. <sup>1</sup>Centro de Investigaciones Biomédicas, U. Andres Bello, <sup>2</sup>FONDAP Center for Genome Regulation, Chile.
- 04. Ca<sup>2+</sup> and ROS participate in BDNF signaling: a novel role for Nrf2.** <sup>1</sup>Bruna B, <sup>1</sup>Lobos P, <sup>1</sup>Galáz JL, <sup>1,2</sup>Hidalgo C, <sup>1,3</sup>Paula-Lima AC & <sup>1,4</sup>Adasme T. <sup>1</sup>BNI, <sup>2</sup>ICBM, F. Medicine, <sup>3</sup>ICOD, F. Odontología, Universidad de Chile. <sup>4</sup>Laboratorio de Bionanotecnología, Universidad Bernardo O'Higgins, General Gana 1780, Santiago 8370854, Chile.
- 06. Role of SNAP23 in antigen processing and presentation by B lymphocytes.** Martina Alamo, María Isabel Yuseff. Department of Cell and Molecular Biology. Faculty of Biological Sciences. Pontificia Universidad Católica de Chile.
- 08. Interfering of Reelin/APOER2/PSD-95 signaling reactivates the developmental structural plasticity of mature hippocampal neurons.** Estibaliz Ampuero<sup>1</sup>, Nur Jury<sup>1</sup>, María Paz Marzolo<sup>2</sup>, Stefen Härtel<sup>3</sup>, Brigitte van Zundert<sup>1</sup>. <sup>1</sup>Center for Biomedical Research, Universidad Andres Bello. <sup>2</sup>Laboratorio de Tráfico Intracelular y Señalización, Pontificia Universidad Católica, <sup>3</sup>SCIAN-Lab, University of Chile.
- 10. Murine chemical kindling models present high glial hemichannel activity and inhibition of connexin hemichannels prevent recurrence of epileptic seizures.** Camila Aravena, Carola Maturana and Juan C. Sáez. Physiology, Biological Sciences, Pontificia Universidad Católica de Chile.
- 12. Effects of adolescent ethanol exposure on hippocampal dependent cognitive performance.** Arce C, Mira R, Carvajal F, Cerpa W. Laboratorio de Función y Patología Neuronal. Departamento de Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
- 14. Effect of TFEB activation by genistein in Niemann-Pick C models.** Argüello G, Yañez MJ, Zanlungo S. Pontificia Universidad Católica de Chile, Departamento de Gastroenterología, Facultad de Medicina.
- 16. Sweet or sour? ANLS QED.** <sup>1,2</sup>Felipe Baeza-Lehnert <sup>1,2</sup>Robin Gutiérrez <sup>1</sup>L. Felipe Barros. <sup>1</sup>Centro de Estudios Científicos (CECs) & <sup>2</sup>Universidad Austral de Chile, Valdivia, Chile.
- 18. EGFR endocytosis as a potential therapeutic target in gallbladder cancer.** Jonathan Barra-Carrasco<sup>1</sup>, Ronan Shaughnessy<sup>1</sup>, Catalina Grabowsky<sup>1,4</sup> Juan Carlos Roa<sup>3</sup> and Alfonso González <sup>1,2</sup>. <sup>1</sup>Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, <sup>2</sup>Departamento de Inmunología Clínica y Reumatología and <sup>3</sup>Departamento de Patología, Facultad de Medicina, Pontificia Universidad Católica de Chile. <sup>4</sup>Facultad de Ciencia, Universidad San Sebastian.
- 20. Congenital and acquired myopathies induce an altered mitochondrial bioenergetic profile in myoblasts.** Carla Basualto-Alarcón<sup>1</sup>, Jorge Bevilacqua<sup>1,2</sup>, Felix Urra<sup>1</sup>, Maria-Francisca Bozán<sup>2</sup>, Cesar Cárdenas <sup>1</sup>. <sup>1</sup>Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, and

Geroscience Center for Brain Health and Metabolism, <sup>2</sup>Hospital Clínico José Joaquín Aguirre, University of Chile, Santiago, Chile.

22. **Atlantin regulates the intracellular trafficking of presynaptic proteins in *Drosophila* motoneurons.** Francisca Bertin<sup>1,2</sup>, Cristian de Gregorio<sup>1,2</sup>, Jimena Sierralta<sup>1,2</sup>, Andrés Couve<sup>1,2</sup>. <sup>1</sup>Program of Physiology and Biophysics, ICBM and <sup>2</sup>Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile.
24. **Role of Gcsf-chr12 and its receptor Gcsfr in neutrophil migration during an inflammatory process in zebrafish.** Bravo-Tello K., and Feijóo CG. Fish Immunology Laboratory, <sup>1</sup>Facultad Ciencias Biológicas, Universidad Andrés Bello. <sup>2</sup>Interdisciplinary Center for Aquaculture Research (INCAR).
26. **Evaluation of a new 8-hydroxyquinoline-based iron chelator in models of Parkinson's disease(PD).** Joaquín Campos, Pabla Aguirre, Vicente Castro-Castillo, Bruce K. Cassels and Marco Tulio Núñez. Biology and Chemistry Departments, Faculty of Sciences and Faculty of Pharmaceutical Sciences, Universidad de Chile.
28. **A cell-context independent dioxin bioassay based on an exogenous AhR sensor.** Héctor Castillo H., Gastón Otárola and Sylvain Marcellini. Faculty of Biological Sciences, University of Concepcion, Chile.
30. **Contribution of cell proliferation to axial elongation in the red flour beetle *Tribolium castaneum*.** Rodrigo E. Cepeda, Andres F. Sarrazin. Laboratorio Bioquímica de Sistemas, Instituto de Química, Pontificia Universidad Católica de Valparaíso.
32. **The non-receptor tyrosine kinase c-Abl modulates the post-endocytic trafficking of the TrkB receptor affecting BDNF-induced dendritic branching.** Chandía-Cristi A.<sup>1,3</sup>, Jimenez P.<sup>1,3</sup>, Bronfman F.C.<sup>2,3</sup>, Álvarez A.R.<sup>1</sup>. <sup>1</sup>Cellular & Molecular Biology and <sup>2</sup>Physiology Department, Biological Sciences Faculty, <sup>3</sup>CARE-Chile UC, Pontificia Universidad Católica de Chile, Santiago, Chile.
34. **Cell-type-specific profiling of Polymerase II occupancy in the *Drosophila* nervous system under nutrient restriction.** Esteban G Contreras<sup>1,2,3</sup>, Jimena Sierralta<sup>2</sup>, Andrea H Brand<sup>3</sup> and Alvaro L. Glavic<sup>1</sup>. <sup>1</sup>Faculty of Science and <sup>2</sup>Faculty of Medicine, Universidad de Chile and <sup>3</sup>The Gurdon Institute, University of Cambridge, UK.
36. **The unfolded protein response sensor IRE1 $\alpha$  modulates the recognition and function of dendritic cells activated with melanoma tumor lysates.** Cristóbal Costova, Flavio Salazar-Onfray, Fabiola Osorio. Laboratory of Antitumoral Immunology, IMII, Universidad de Chile, 8380453 Santiago, Chile.
38. **The Hox code and the identity of the teleostean caudal fin.** Nicolás Cumplido<sup>1</sup>, Salomé Muñoz-Sánchez<sup>1</sup>, Gloria Arratia<sup>2</sup>, Miguel L. Allende<sup>1</sup>. <sup>1</sup>FONDAP Center for Genome Regulation. Facultad de Ciencias, Universidad de Chile. <sup>2</sup>University of Kansas, Biodiversity Institute, Lawrence, KS, USA.
40. **Role of Pannexin 1 in cross priming.** Díaz, X. Madrid, B. Acuña-Castillo, C. Laboratory of Bioterapias, Faculty of Chemistry and Biology. University of Santiago of Chile.
42. **Role of KDEL receptor-dependent signaling on transport and destination of lysosomal proteins.** Javier Espinoza<sup>1</sup>, Fanny Guzman<sup>2</sup> and Jorge Cancino<sup>1</sup>. <sup>1</sup>Laboratorio de Señalización Interorganelos, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Viña del Mar, Chile. <sup>2</sup>Núcleo de Biotecnología de Curauma (NBC), P. Universidad Católica de Valparaíso, Valparaíso, Chile.
44. **The epithelial to mesenchymal transcription factors SNAIL, SLUG and ZEB1 represses the Syndecan-1 expression in prostate epithelial cells.** Farfán N<sup>1</sup>, Chrzanowsky D<sup>1</sup>, Castellón EA<sup>1</sup>, de Herreros AG.<sup>2</sup>, Contreras HR<sup>1</sup>. <sup>1</sup>Laboratorio de Andrología Celular y Molecular. Programa de Fisiología y

Biofísica. Facultad de Medicina. Universidad de Chile. Santiago. Chile. <sup>2</sup>Institut Hospital del Mar d'Investigacions Mèdiques. Universitat Pompeu Fabra. Barcelona. España.

46. **Ovarian carcinoma cell line lysates are a potent maturation stimulus and tumoral antigen source for therapeutic dendritic cells (DCs) against cáncer.** Iván Flores Colmann, Fabián Tempio, Flavio Salazar-Onfray and Mercedes N López. Faculty of Medicine, Universidad de Chile.
48. **Escargot and Scratch regulate neural commitment by antagonizing Notch activity in *Drosophila* sensory organs.** Anne Ramat, Agnès Audibert, Sophie Louvet-Vallée, Françoise Simon, Pierre Fichelson, and Michel Gho. CNRS-Université Pierre et Marie Curie, UMR 7622, Laboratory of Developmental Biology, IBPS, Paris 75005, France.
50. **Expression of FGF21 receptor and  $\beta$ -Klotho in the central nervous system of mice and the effect of FGF21 deficiency in brain insulin resistance.** Lila González-Hódar<sup>1</sup>, Silvana Zanlungo<sup>2</sup>, Víctor Cortés<sup>1</sup>. <sup>1</sup>Nutrition Department, School of Medicine, Pontificia Universidad Católica de Chile. <sup>2</sup>Gastroenterology Department, School of Medicine, Pontificia Universidad Católica de Chile.
52. **Role of Connexin-43 and N-cadherin in the disruption of the ventricular zone of hydrocephalic HTx rats.** Herrera C, Jara M, Rodríguez EM, Guerra M. Instituto de Anatomía, Histología y Patología, Facultad de Medicina, Universidad Austral de Chile.
54. **Characterization of a novel *Drosophila* SERT mutant: insights on the contribution of serotonin to behaviors.** Sergio Hidalgo\*, Daniela Molina-Mateo\*, Elsa Fritz, Angélica Fierro, Edwin G. Perez, Rodrigo Varas, Nicolás Fuenzalida-Urbe, Jorge M. Campusano. Pontificia Universidad Católica de Chile.
56. **Sleep/wake disorders and the hypocretin/orexin system in a zebrafish model of Parkinson's disease.** Almudena Laliena<sup>1,2,3</sup>, Víctor Castañeda<sup>1,2</sup>, Steffen Härtel<sup>1,2</sup>, Miguel Concha<sup>1,2,3</sup>. <sup>1</sup>Anatomy and Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism.
58. **Spatiotemporal analysis of RhoA and Rac1 activation for cell polarization.** Leal J., Villaseca S., Torrejón M. Laboratory of Signaling and Development, Department of Biochemistry and Molecular Biology, University of Concepcion.
60. **Differential activation of the subdivisions of retrosplenial cortex associated to the retrieval of fear conditioned memory.** Sigwald E<sup>1</sup>, Ponce N<sup>1</sup>, Bignante A<sup>1</sup>, Molina V<sup>2</sup>, de Olmos S<sup>1</sup>, Lorenzo A<sup>1</sup>. <sup>1</sup>Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC, CONICET, Universidad Nacional de Córdoba. Friuli 2434, 5016-Córdoba, Argentina. <sup>2</sup>IFEC, CONICET, Universidad Nacional de Córdoba, Argentina.
62. **The c-Abl kinase phosphorylates Mitofusin 2 promoting mitochondrial fragmentation and apoptosis in response to ER stress.** Martínez A<sup>1,2</sup>, Valls C<sup>1,2</sup>, Leal N<sup>1,2</sup>, Green DR<sup>3</sup>, Álvarez AR<sup>1,2</sup>. <sup>1</sup>Cell Signaling Lab, Cellular & Molecular Biology Department, Biological Sciences Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>CARE-CHILE-UC. <sup>3</sup>Department of Immunology, St. Jude Children's Research Hospital, Memphis, TN, USA.
64. **Regulation of focal adhesions proteolysis by the small GTPase Rab5.** Pablo Mendoza<sup>1</sup>, Patricio Silva<sup>1</sup>, Jorge Díaz<sup>1,2</sup>, and Vicente A. Torres<sup>1,2</sup>. <sup>1</sup>Institute for Research in Dental Sciences, Faculty of Dentistry, Universidad de Chile. <sup>2</sup>Advanced Center for Chronic Diseases (ACCDIS).
66. **Increasing confinement affects the shape and migrating behaviour of embryonic cells during annual killifish epiboly.** Ignacio Nieto-Esparza<sup>1,2,3</sup>, Germán Reig<sup>1,2,3</sup>, Miguel Concha<sup>1,2,3</sup>. <sup>1</sup>Anatomy and

Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism.

- 68. Analysis of expression and localization of PP1 isoforms in ciliated cells from trachea and brain.** Oviedo M.J., Bertinat R., Martínez F., Nualart F., Salazar K. Laboratory of Neurobiology and Stem Cells, Center for Advanced Microscopy CMA BIOBIO, University of Concepcion.
- 70. TNF- $\alpha$  and LPS increased Cdk5 activity in mouse MDPC-23 odontoblast-like cell line.** Nicolás Pinto<sup>1</sup>, Christian González-Billault<sup>2,3</sup>, Elías Utreras<sup>1</sup>. <sup>1</sup>Laboratory of Molecular and Cellular Mechanism of Pain, <sup>2</sup>Laboratory of Cell and Neuronal Dynamics, Department of Biology, Faculty of Science, Universidad de Chile. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism, Santiago, Chile.
- 72. Mutation in mitochondrial fission MiD49 hinders mitochondrial fusion and ultrastructure in human fibroblast.** Diego Troncoso<sup>1</sup>, Josefa Vial<sup>1</sup>, Marina Bartsakoulia<sup>2</sup>, Rita Horvath<sup>2</sup>, Verónica Eisner<sup>1</sup>. Departamento Biología Celular y Molecular, Pontificia Universidad Católica de Chile. Institute of Genetic Medicine, Newcastle University, Newcastle upon Tyne, UK.

**19:30 – 20:30 PLENARY LECTURE**

**Volcanes 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<sup>1,2</sup>, Ken Kadoya<sup>1,3</sup>, Gunnar Poplawski<sup>1</sup>, Paul Lu<sup>1,2</sup>, Ephron Rosenzweig<sup>1</sup>, Corinne Lee<sup>1</sup>, Hiromi Kimamaru<sup>1</sup>, Jacob Koffler<sup>1</sup>, Dan Gibbs<sup>1</sup>, Andrew Adler<sup>1</sup>, Eileen Collyer<sup>1</sup>, Jennifer Dulin<sup>1</sup>, Matt Hunt<sup>1</sup>. <sup>1</sup>Department of Neurosciences, University of California – San Diego, La Jolla CA. <sup>2</sup>Veterans Administration Medical Center, La Jolla, CA. <sup>1,3</sup>Department of Orthopaedic Surgery, Hokkaido University, Sapporo, Japan.

**20:30 Dinner**

**22:30 – 23:30 BEST THESES AWARDS**

**“FUNDACION CHILENA PARA BIOLOGIA CELULAR”**

**Volcanes Room – *Language: Spanish***

**Chairs: Arturo Yudelevich, Fundacion Chilena para Biología Celular  
Andrés Couve, President SBCCH, Universidad de Chile**

***Undergraduate***

**Maritza Oñate Valenzuela**

**Magister en Ciencias Biológicas, Universidad de Chile**

**“Participación de la respuesta a proteínas mal plegadas (UPR) en el proceso de regeneración axonal frente a daño en el nervio ciático de ratón”**

**Director: Claudio Hetz, Facultad de Medicina, Universidad de Chile**

***Graduate***

**Hery Urra Zúñiga**

**Doctor en Ciencias Biomédicas, Universidad de Chile**

**“Role of IRE1 $\alpha$  in cytoskeleton remodeling and cell migration: a new function of IRE1 $\alpha$  beyond ER stress”**

**Director: Claudio Hetz, Facultad de Medicina, Universidad de Chile**



**FRIDAY, NOVEMBER 4, 2016**

**08:00**           **Poster Mounting Session II: N° 73 to N° 144**  
**Convention Center Foyer**

**09:00 – 10:30** **Oral Presentations III**  
**Volcanes Room**  
**Chairs: Gloria Arriagada, Universidad Nacional Andrés Bello**  
**Claudio Hetz, Universidad de Chile**

- 09:00** **NETRIN1, a novel SHH/GLI target, acts as a survival factor in human medulloblastoma. Paulina Falcón<sup>1</sup>, Joanna Fombonne<sup>2</sup>, Patrick Mehlen<sup>2</sup> & Veronica Palma A<sup>1</sup>. <sup>1</sup>CTYBD Laboratory, University of Chile, Chile. <sup>2</sup>Apoptosis, Cancer and Development. Cancerology Research Center of Lyon, France.**
- 09:15** **Global 3'UTR shortening regulates differentiation in an adult stem cell lineage. Gonzalo H. Olivares<sup>1,3</sup>, Cameron W. Berry<sup>1</sup>, Gokul Ramaswami<sup>2</sup>, Alvaro Glavic<sup>3</sup>, Jin B. Li<sup>2</sup>, Margaret T. Fuller<sup>1,2</sup>. <sup>1</sup>Department of Developmental Biology, <sup>2</sup>Department of Genetics Stanford University, USA. <sup>3</sup>CGR, Department of Biology Faculty of Sciences Universidad de Chile.**
- 09:30** **CTGF inhibition reduces fibrosis and improves muscle function in a model of ALS. David González, <sup>1</sup>Daniela Rebolledo, <sup>1</sup>Waldo Cerpa, <sup>1</sup>Felipe Court, <sup>3</sup>Kenneth Lipson, <sup>2</sup>Brigitte van Zundert and <sup>1</sup>Enrique Brandan. <sup>1</sup>Pontificia Universidad Católica de Chile, <sup>2</sup>Universidad Andrés Bello, <sup>3</sup>FibroGen, Inc.**
- 09:45** **Role of lipid modifications in Sonic Hedgehog polarized sorting. Lisette Sandoval<sup>1</sup>, Mariana Labarca<sup>1</sup>, Claudio Retamal<sup>1,2</sup> and Alfonso González<sup>1,2</sup>. <sup>1</sup>Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>Facultad de Ciencia and Facultad de Medicina, Universidad San Sebastián, Santiago, Chile.**
- 10:00** **Lipopolysaccharide-induced autophagy is decreased by Angiotensin-(1-7) through mechanism dependent on Beclin1/Bcl2 complex in skeletal muscle. Rivera, J.C.<sup>1,2</sup>, Abrigo, J.<sup>1,2</sup>, Chiong, M.<sup>3</sup>, Bader, M.<sup>4,5</sup>, Santos, R.A.<sup>5</sup>, Brandan, E.<sup>6,7</sup>, Acuña, M.J.<sup>6,7</sup>, Cabello-Verrugio, C.<sup>1,2</sup>. <sup>1</sup>Laboratorio de Biología y Fisiopatología Molecular. Universidad Andrés Bello. <sup>2</sup>IMIIL. <sup>3</sup>ACCDiS, Universidad de Chile, Santiago, Chile. <sup>4</sup>Max-Delbrück-Center for Molecular Medicine, Berlin-Buch, Germany. <sup>5</sup>National Institute in Science and Technology in Nanobiopharmaceutics, UFMG, Belo Horizonte, Brazil. <sup>6</sup>CARE, <sup>7</sup>Department of Cell and Molecular Biology, Universidad Católica, Santiago, Chile.**
- 10:15** **The Cdk5/p35 complex interacts with and regulates the function of the purinergic receptor P2X2 in HEK293 and mouse trigeminal neurons. Rodrigo Sandoval<sup>1</sup>, Pablo Lazcano<sup>1</sup>, Christian González-Billaul<sup>1</sup>, Claudio Coddou<sup>2</sup> and Elías Utreras<sup>1</sup>. <sup>1</sup>Department of Biology, Faculty of Sciences, Universidad de Chile, <sup>2</sup>Universidad Católica del Norte, Coquimbo, Chile.**

**10:30 – 12:00 Poster Viewing Session II: 73-144 Odd Numbers**  
**Convention Center Foyer**

- 73. Skeletal muscle wasting induced by obesity is decreased by mesenchymal stem cells administration.** Ábrigo, J.<sup>1,2</sup>, Rivera, J.C.<sup>1,2</sup>, Aravena, J.<sup>1,2</sup>, Cabrera, D.<sup>3</sup>, Ezquer, F.<sup>4</sup>, Ezquer, M.<sup>4</sup>, Cabello-Verrugio, C.<sup>1,2</sup>.  
<sup>1</sup>Laboratory of Biology and Molecular Physiopathology, Universidad Andrés Bello. <sup>2</sup>Millennium Institute on Immunology and Immunotherapy. <sup>3</sup>Facultad de Salud, Universidad Bernardo O Higgins. <sup>4</sup>Centro de Medicina Regenerativa, Facultad de Medicina, Universidad del Desarrollo. Santiago, Chile.
- 75. Dynein light chain dynlr2 is required for murine leukemia virus infection.** Tatiana Opazo<sup>1,2</sup> and Gloria Arriagada<sup>1,2</sup>. <sup>1</sup>Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Viña del Mar. <sup>2</sup>Millennium Nucleus Biology of Neuropsychiatric Disorders NuMIND.
- 77. Calcium-sensing receptor activation modulates mitochondrial function in Is14 preadipocytes.** Roberto Bravo-Sagua<sup>1,2</sup>, Valentina Parra<sup>2</sup>, Sergio Lavandero<sup>2,3</sup>, Mariana Cifuentes<sup>1</sup>. <sup>1</sup>Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile. <sup>2</sup>Advanced 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, Santiago, Chile. <sup>3</sup>Department of Internal Medicine, University of Texas Southwestern Medical Center, Dallas, TX, USA.
- 79. Inhibition of CTGF/CCN2 rescues mitochondrial fusion in Duchene muscular dystrophy adult skeletal muscle.** Castro, M., Vial J., Rebolledo D., Brandan E., Eisner, V. Departamento Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
- 81. Junk or Func? Genomic repeats contribute to the transcriptional activity of a *Xenopus tropicalis* bone-specific enhancer.** Pedro Contreras, David Muñoz, Héctor Castillo and Sylvain Marcellini. Faculty of Biological Sciences, University of Concepcion, Chile.
- 83. The transcription factor NF-κB is translocated to the nucleus in epilepsy-related excitotoxicity.** Katherine Corvalán, Teresa Gómez, Ursula Wyneken. Laboratorio de Neurociencias, Centro de Investigaciones Biomedicas, Facultad de Medicina, Universidad de los Andes.
- 85. Caveolin-1 promotes CCL21-dependent chemotactic migration of dendritic cells to lymph nodes.** Sebastián Cruz<sup>1</sup>, Cesar Oyarce<sup>1</sup>, Pablo Vargas<sup>2</sup>, Felipe Gálvez-Cancino<sup>1</sup>, Jorge Díaz<sup>3</sup>, Natalia Díaz<sup>3</sup>, Ernesto Lopez<sup>1</sup>, Ana-María Lennon-Duménil<sup>4</sup>, Andrew F.G. Quest<sup>3</sup> and Alvaro Lladser<sup>1</sup>. <sup>1</sup>Laboratory of Gene Immunotherapy, Fundación Ciencia & Vida, Chile. <sup>2</sup>CNRS UMR144, Institut Curie, France. <sup>3</sup>Laboratory of Cellular Communication, Advanced Center for Chronic Diseases (ACCDiS), Facultad de Medicina, Universidad de Chile, Chile. <sup>4</sup>Inserm U932, Institut Curie, France.
- 87. Pharmacologic antagonism of dopamine receptor D3 attenuates neurodegeneration and motor impairment in a mouse model of Parkinson's disease.** Daniela Elgueta<sup>1,2</sup>, María S. Aymerich<sup>3</sup>, Francisco Contreras<sup>2</sup>, Marta Celorrio<sup>3</sup>, Estefanía Rojo-Bustamante<sup>3</sup>, Rodrigo Pacheco<sup>1,2</sup>. <sup>1</sup>Universidad Andrés Bello, <sup>2</sup>Fundación Ciencia & Vida, <sup>3</sup>Centro de Investigación Médica Aplicada.
- 89. Maqui (*Aristotelia chilensis*): a novel inducer of lysosomal biogenesis.** Urrutia C.B.<sup>1</sup>, Vergara E.<sup>1</sup>, Leiva C.S.<sup>1</sup>, Bustamante H.A.<sup>2</sup>, Cerda-Troncoso C.<sup>2</sup>, and Burgos P.V.<sup>2</sup>; <sup>1</sup>Liceo Bicentenario de Excelencia Altamira Panguipulli, Chile; <sup>2</sup>Faculty of Medicine, Universidad Austral de Chile, Chile.
- 91. Hypertriglyceridemia is associated with increased expression of hepatic lipogenic genes and FATP4 in proximal intestine in newborn mice *Agpat2*<sup>-/-</sup>.** Ana M. Figueroa, Pablo Tapia, Víctor Cortés. Department of Nutrition, Pontifical Catholic University of Chile.

93. **TFPI-2 loss in ovarian cancer progression.** J. Fry<sup>1,3</sup>, E. Cumsille<sup>1</sup>, S. Kato<sup>2</sup>, L. Abarzua<sup>2</sup>, C. Ramírez<sup>1</sup>, J.C. Roa<sup>2</sup>, C. Ibañez<sup>2,3</sup>, M.A. Cuello<sup>2,4</sup>, G.I. Owen<sup>1,2,3,4</sup>, M.L. Bravo<sup>1,3,4</sup>. <sup>1</sup>Facultad de Ciencias Biológicas, <sup>2</sup>Facultad de Medicina, Pontificia Universidad Católica de Chile, <sup>3</sup>Instituto Milenio en Inmunología e Inmunoterapia (IMII), <sup>4</sup>Biomedical Research Council Chile (BMRC).
95. **Effect of the inhibitor of p38-MPAK pathway encapsulated in polymer nanoparticles on neutrophils recruiting in Zebrafish.** Juan Pablo García-López<sup>1</sup>; Cristian Vilos<sup>2</sup>; Carmen Gloria Feijóo<sup>2,3</sup>. <sup>1</sup>Universidad de Santiago de Chile. <sup>2</sup>Universidad Andres Bello. <sup>3</sup>Fondap INCAR.
97. **Axons provide the secretory machinery for trafficking of voltage-gated sodium channels in peripheral nerve.** Carolina González<sup>1,2</sup>, Macarena Díaz<sup>1,2</sup>, Felipe Court<sup>5</sup>, Claudio Hetz<sup>2,3,4</sup> and Andrés Couve<sup>1,2</sup>. <sup>1</sup>Physiology and Biophysics, ICBM and <sup>2</sup>BNI, Faculty of Medicine, Universidad de Chile. <sup>3</sup>Center for Geroscience, Chile, and <sup>4</sup>The Buck Institute, USA. <sup>5</sup>Center for Integrative Biology, Universidad Mayor.
99. **Epigenetic changes during adult hippocampal neurogenesis.** Miguel V. Guerra, Andrea Herrera, 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.
101. **The developmental program of *Musca domestica* embryos reveals the origin of new elements of dorsal patterning network in dipterans.** Christian Hodar, Veronica Cambiazo. Laboratorio de Bioinformática y Expresión Génica, INTA. Universidad de Chile. Fondap Center for Genome Regulation (CGR).
103. **The vitamin C transporter, SVCT2, is expressed in blood vessels of the brain.** Nery Jara, Manuel Cifuentes, Romina Bertinat and Francisco Nualart. Laboratory of Neurobiology and Stem Cells, Neuro-CellT. Center for Advanced Microscopy, CMA BIOBIO, University of Concepcion.
105. **Cell mechanisms underlying P2X7-mediated cell fusion.** Jiménez G., Acuña-Castillo C. Laboratory Biotherapies, Faculty of Chemistry and Biology. University of Santiago of Chile.
107. **DNA methylation regulates the expression of genes involved in the unfolded protein response in salivary glands of Sjögren's syndrome patients.** Lagos C\*, Carvajal P\*, González S, Castro I, Aguilera S, Barrera MJ, Urzúa U, Cortés J, Bahamondes V, Leyton C and González MJ. ICBM, Facultad de Medicina, Universidad de Chile.
109. **Simvastatin disassembles ovarian cancer spheroids by decreasing P-cadherin and induces apoptosis via mevalonate pathway.** Liberona MF, Kato S, Abarzúa-Catalán L, and Cuello M; Division of Obstetrics and Gynecology, Faculty of Medicine, Pontificia Universidad Católica de Chile, Santiago Chile.
111. **Secreted SPARC induces epithelial mesenchymal transition in prostate cells.** López F, Castellón EA, Contreras HR. Laboratorio de Andrología Celular y Molecular. Programa de Fisiología y Biofísica. Facultad de Medicina. Universidad de Chile. Santiago. Chile.
113. **Wnt pathway is involved in *Tribolium castaneum* segmentation and germband elongation.** Constanza C. Macaya, Nicole E. Orellana, Viviana A. Nuñez, Andres F. Sarrazin. Laboratorio Bioquímica de Sistemas, Instituto de Química, Pontificia Universidad Católica de Valparaíso.
115. **c-Abl signaling is activated and relevant in neuronal models of Niemann-Pick type A disease.** Tamara Marín<sup>1</sup>, Mariana Acuña<sup>1</sup>, Juan Castro<sup>1</sup>, Alejandra R. Alvarez<sup>2</sup>, and Silvana Zanlungo<sup>1</sup> <sup>1</sup>Medicine Faculty and <sup>2</sup>Biological Sciences Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile.

117. **Activation of the unfolded protein response sensor IRE-1 $\alpha$  in murine dendritic cells is required for efficient cross-presentation of melanoma-associated antigens to CD8<sup>+</sup> T cells.** Bernardita Medel<sup>1,2</sup>, Flavio Salazar-Onfray<sup>1,2</sup>, Fabiola Osorio<sup>1,2</sup>. <sup>1</sup>Universidad de Chile. <sup>2</sup>Millennium Institute on Immunology and Immunotherapy, Chile.
119. **Effect of cell transplantation in spinal cord regeneration in *Xenopus* froglets.** Emilio Méndez-Olivos<sup>1,2</sup>, Juan Larraín<sup>1,2</sup>. <sup>1</sup>Center for Aging and Regeneration, Pontificia Universidad Católica de Chile. <sup>2</sup>Millennium Nucleus for Regenerative Biology, Pontificia Universidad Católica de Chile.
121. **Study of effects of adolescent ethanol administration on adult hippocampus.** Mira R., Arce C, Carvajal F, Cerpa W. Laboratorio de Función y Patología Neuronal. Dpto. Biología Celular y Molecular, Pontificia Universidad Católica de Chile.
123. **Examination of the hiperekplexia phenotype in the x-ray structure of the human glycine receptor  $\alpha_1$  subunit.** Moraga-Cid G<sup>a,c</sup>, Sauguet L<sup>a</sup>, Huon C<sup>a</sup>, Malherbe L<sup>a</sup>, Girard-Blanc C<sup>a</sup>, Petres S<sup>a</sup>, Murail S<sup>b</sup>, Taly A<sup>b</sup>, Baaden M<sup>b</sup>, Delarue M<sup>a</sup>, Corringer PJ<sup>a</sup>. <sup>a</sup>Institute Pasteur, 75015 Paris, France; <sup>b</sup>University Paris Diderot 75015 Paris, France; <sup>c</sup>University of Concepcion, Concepcion, Chile.
125. **Novel mitochondriotropic compound DMC4, selectively induces apoptosis in MDA-MB-231 and MDA-MB-468 breast cancer cell lines.** Felipe A. Muñoz-Córdova<sup>1,2</sup>, Ramiro Araya-Maturana<sup>2</sup> and J. César Cárdenas<sup>1</sup>. <sup>1</sup>Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile and Geroscience Center for Brain Health and Metabolism, Santiago, Chile, <sup>2</sup>Institute of natural Resources, University of Talca.
127. **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.
129. **The NETRIN1/NEOGENIN1 signaling complex promotes cell migration in neuroblastoma.** Andrea A. Villanueva<sup>1</sup>, Vicente A. Torres<sup>2</sup>, Veronica Palma<sup>1</sup>. <sup>1</sup>CTYBD Laboratory, University of Chile, Chile. <sup>2</sup>IRDS, Faculty of Dentistry, University of Chile, Chile.
131. **The neurotrophin co-receptor p75 is required for neuromuscular junction maturation.** Viviana Pérez<sup>1</sup>, Francisca Bronfman<sup>2</sup>, Margarita Calvo<sup>2</sup>, Felipe Court<sup>2</sup>, Claudio Cabello-Verrugio<sup>3</sup>, Marco Fuenzalida<sup>4</sup>, Ariel Ionescu<sup>5</sup>, Eran Perlson<sup>5</sup>, Paulina Villegas<sup>1</sup>, Juan Pablo Henríquez<sup>1,3,\*</sup>. <sup>1</sup>University of Concepcion; <sup>2</sup>PUC; <sup>1,2</sup>MINREB; <sup>3</sup>Universidad Andres Bello; <sup>4</sup>Universidad de Valparaíso; <sup>5</sup>Tel Aviv University, Israel.
133. **Pannexin-1 GAP junction channels endogenously expressed by oligodendrocytes are thermo-sensitive.** Manuel Ramírez<sup>1,2</sup>, Paola Soto<sup>1</sup>, Paola Fernandez<sup>1,2</sup>, Bruno Cisterna<sup>1,2</sup>, Juan C. Sáez<sup>1,2</sup>. <sup>1</sup>Departamento de Fisiología, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>Centro Interdisciplinario de Neurociencias de Valparaíso, Valparaíso, Chile.
135. **Relationship between TDP-43 aggregates and CMA.** Riquelme F., Moreno J., Ormeño F., Pino S., Budini M.. <sup>1</sup>Research Institute in Dentistry Sciences, University of Chile.
137. **The non canonical ligand Wnt5a decreases mitochondrial motility and fusion in neuronal cells.** Silva-Alvarez C<sup>1,2</sup>, Eisner V<sup>2</sup>, Cisternas P<sup>1,3</sup>, and Inestrosa NC<sup>1,2,4</sup>. <sup>1</sup>Centro de Envejecimiento y Regeneración (CARE-UC), <sup>2</sup>Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, P.Universidad Católica de Chile, Chile. <sup>3</sup>Departamento de Química y Biología, Facultad de Ciencias Naturales, Universidad de Atacama, Chile. <sup>4</sup>Centro de Excelencia en Biomedicina Magallanes (CEBIMA), Universidad de Magallanes, Chile.

139. **Modulation of synaptic plasticity genes associated to DNA damage in a model of Huntington's disease.** Johana Spies, Adriana Covarrubias, Maite Castro and Angara Zambrano. Universidad Austral de Chile, Valdivia.
141. **The endocannabinoid system shapes amacrine cell responses to light in the retina.** Felipe Tapia, Andrés E. Chavez, Oliver Schmachtenberg, Alex Vielma. CINV, Núcleo Milenio NU-MIND, Facultad de Ciencias, Universidad de Valparaíso, Chile.
143. **Gai2/Ric-8A a novel signaling pathway that regulates Cranial Neural Crest cell migration in *Xenopus*.** Villaseca S., Toro-Tapia G., Beyer A., Leal J., Torrejón, M. Laboratory of Signaling and Development, Department of Biochemistry and Molecular Biology, University of Concepcion.

**10:30 – 13:00 Schools and Science: Students from South of Chile  
at the Chilean Society for Cell Biology**

**Maullin Room**

**12:00 –14:00 SYMPOSIUM “CELL MIGRATION: FROM MICROFLUIDICS TO *IN VIVO* IMAGING”**

**Institut Curie, France**

**Calbuco Room**

**Chairs: Ana-Maria Lennon-Duménil, Institut Curie, France**

**Miguel Concha, Universidad de Chile**

**EXTRACELLULAR PRESSURE AS A GUIDANCE CUE FOR CELL MIGRATION IN TISSUES.** Hélène Moreau, Carlès Blanchès-Mercader, Zahraa Alraies, Rafaele Attila, Raphaël Voituriez, Matthieu Piel and Ana-Maria Lennon-Duménil. Institut Curie/U932 INSERM 12, Paris, France.

**SPONTANEOUS CELLULAR MIGRATION: TAKE A LOOK AT THE REAR!** Katharina Hennig<sup>1</sup>, Elisa Vitiello<sup>1</sup>, Irene Wang<sup>1</sup>, Philippe Moreau<sup>1</sup>, Simon De Beco<sup>2</sup>, Mathieu Coppey<sup>2</sup>, Christophe Leterrier<sup>3</sup>, and Martial Balland<sup>1</sup>. <sup>1</sup>Laboratoire interdisciplinaire de Physique, UMR 5588, 38000, CNRS/Université Grenoble-Alpes, Grenoble, France. <sup>2</sup>Laboratoire Physico Chimie Curie, Institut Curie, PSL Research University, CNRS UMR168, 75005, Paris, France <sup>3</sup>Centre de Recherche en Neurobiologie et Neurophysiologie de Marseille, CNRS-AMU UMR 7286, Marseille, France.

**MECHANOBIOLOGY OF DENDRITIC CELL MIGRATION IN CONFINED ENVIRONMENTS.** Pablo Vargas. Institut Curie, UMR144, Paris, France. Institut Pierre Gilles de Gennes (IPGG), Paris, France.

**THE PHYSICAL BASIS OF COORDINATED TISSUE SPREADING IN ZEBRAFISH GASTRULATION.** Hitoshi Morita and Carl-Philipp Heisenberg. Institute of Science and Technology Austria, 3400 Klosterneuburg, Austria.

**MECHANICAL COUPLING TO EXTRA-EMBRYONIC TISSUE EXPANSION DRIVES EARLY EMBRYO MORPHOGENESIS IN VERTEBRATES.** Germán Reig,<sup>1,2</sup> Mauricio Cerda,<sup>1,2</sup> Néstor Sepúlveda,<sup>3</sup> Daniela Flores,<sup>1,2</sup> Victor Castañeda,<sup>1,2</sup> Masazumi Tada,<sup>4</sup> Steffen Härtel,<sup>1,2</sup> Miguel L. Concha<sup>1,2,5</sup>. <sup>1</sup>Anatomy and Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Faculty of Physical and Mathematical Sciences, Universidad de Chile. <sup>4</sup>Department of Cell and Developmental Biology, University College London, UK. <sup>5</sup>Center for Geroscience, Brain Health and Metabolism.

**ROUNDTABLE “WOMEN IN SCIENCE”**

**Chilean Society for Cell Biology**

**Tronador Room**

**Chair: Cecilia Hidalgo, Universidad de Chile**

**WOMEN IN SCIENCE. Cecilia Hidalgo, BNI, CEMC & ICBM, F. Medicine, Universidad de Chile, Santiago, Chile.**

**WOMEN IN THE ACADEMY. WHY IS AFFIRMATIVE ACTION NECESSARY? Pilar Carvallo, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.**

**HOW TO SURVIVE AND SUCCEED IN THE MOTHER-SCIENTIFIC MARATHON. Patricia Burgos, Universidad Austral de Chile.**

**MENTORING PROGRAM FOR CHILEAN WOMEN IN SCIENCE. Pilar Parada, BioSigma S.A., Avda. Gral. San Martín 16.500, Lote 106, Colina, Santiago, Chile.**

**14:00 – 15:15 Lunch**

**15:15 –17:15 *SYMPOSIUM* “GETTING IN AND OUT THE SECRETORY PATHWAY IN A SYNCHRONIZED MANNER”**

**Calbuco Room**

**Chair: Patricia Burgos, Universidad Austral de Chile**

**RUSHING TO STUDY THE SECRETORY PATHWAY: FROM REAL-TIME ANALYSIS TO HIGH CONTENT SCREENING. Franck Perez, Institut Curie, France.**

**IDENTIFICATION OF NOVEL REGULATORS OF AMYLOID PRECURSOR PROTEIN BY HIGH CONTENT SCREENING AND PROTEOMIC ANALYSIS. Patricia Burgos, Universidad Austral de Chile.**

**GETTING OUT THE GOLGI COMPLEX THANKS TO THE RAB6 GTPase. Stéphanie Miserey-Lenkei, Institut Curie, France.**

**DISTINCT MODULATION OF PROTEIN GLYCOSYLATION, TRAFFICKING AND FUNCTION IN TUMOR CELLS BY GOLPH3. Gonzalo Mardones, Universidad Austral de Chile.**

***SYMPOSIUM* “NUCLEAR RECEPTORS IN THE NERVOUS SYSTEM: A TRIBUTE TO MIGUEL BRONFMAN AGUILO”**

**Center for Aging and Regeneration (CARE UC)**

**Tronador Room**

**Chair: Nivaldo C. Inestrosa, P. Universidad Católica de Chile**

**THE CYP2C EPOXYGENASE/PPARALPHA AXIS. ROLES IN ANGIOGENESIS AND TUMOR VASCULARIZATION. PHYSIOLOGICAL/PATHOPHYSIOLOGICAL SIGNIFICANCE. Jorge H. Capdevila<sup>1,2</sup>, Ambra Pozzi<sup>1</sup>, and John R. Falck<sup>3</sup>. Departments of Medicine<sup>1</sup> and Biochemistry<sup>2</sup>, Vanderbilt University Medical School, and Biochemistry<sup>3</sup>, UT-Southwestern Medical School.**

**PEROXISOME PROLIFERATION-ACTIVATED RECEPTOR GAMMA (PPARGAMMA): A LIGAND-ACTIVATED NUCLEAR RECEPTOR WITH NEW**

**FUNCTION IN THE NERVOUS SYSTEM AND A MOLECULAR TARGET FOR NATURAL DRUGS INDUCING NEUROPROTECTION.** Bronfman Francisca C. Center of Aging and Regeneration (CARE). Department of Physiology. Faculty of Biological Sciences. Pontificia Universidad Católica de Chile.

**NUCLEAR RECEPTORS AND THE BLOOD-BRAIN BARRIER, RELEVANCE IN ALZHEIMER'S DISEASE.** Juan M. Zolezzi & Nibaldo C. Inestrosa, CARE-UC, Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago.

**NUCLEAR RECEPTORS AS THERAPEUTIC TARGETS IN ALZHEIMER'S DISEASE.** Gary Landreth, Department of Neurosciences, Case Western Reserve University School of Medicine, Cleveland, OH, USA.

**17:15 – 18:15 PLENARY LECTURE**

**Volcanes Room**

**Chair: Juan Larraín, P. Universidad Católica de Chile**

**CELL BIOLOGY OF AXON GROWTH, BRANCHING AND SYNAPTOGENESIS.** Dietmar Schmucker. VIB Institute, Belgium.

**17:15 – 19:15 Schools and Science: Students from South of Chile  
at the Chilean Society for Cell Biology**

**Maullin Room**

**18:15 – 19:45 Poster Viewing Session II: 73-144 Even Numbers  
Convention Center Foyer**

- 74. Comparative immune response in *Salmo salar* to simple and combined infection/infestation with *Piscirickettsia salmonis* and *Caligus rogercresseyi*.** Macarena Araya-Tapia<sup>1,2</sup>, Paz Tapia<sup>1</sup>, Verónica Díaz<sup>3</sup>, Sandra Oyanedel<sup>3</sup>, Mauricio Ríos<sup>1</sup>, Jorge Valdés<sup>1</sup>. <sup>1</sup>Fraunhofer Chile Research. <sup>2</sup>Universidad Andrés Bello. <sup>3</sup>Fundación Chile.
- 76. Anti-ribosomal P protein autoantibodies alter the function of T and B-lymphocytes interacting with cell surface NSPA protein.** Marcela Bravo-Zehnder<sup>1,3</sup>, Juan José Sáez<sup>4</sup>, Nixa Olivares<sup>3</sup>, Loreto Massardo<sup>2</sup>, Isabel Yuseff<sup>4</sup>, Alfonso González<sup>1,2,3,4</sup>. <sup>1</sup>Facultad de Ciencias Biológicas and Facultad de Medicina, Universidad San Sebastián. Santiago, Chile. <sup>2</sup>Departamento de Inmunología Clínica y Reumatología, Facultad Medicina, <sup>3</sup>Centro de Envejecimiento y Regeneración (CARE), <sup>4</sup>Departamento de Biología Celular y Molecular, Facultad Ciencias Biológicas, Pontificia Universidad Católica de Chile, Chile.
- 78. LAP\*-SWI/SNF function during in osteoblast lineage commitment.** M. Carrasco-Jeldres, G. Nardocci, E. Acevedo, R. Aguilar and M. Montecino. Center for Biomedical Research and FONDAPE Center for Genome Regulation, UNAB, Santiago, Chile.
- 80. An ancestral osteogenic role for the “cartilage master gene” Sox9.** Fret Cervantes-Diaz, David Muñoz and Sylvain Marcellini. Faculty of Biological Sciences, University of Concepcion, Chile.
- 82. A new function of the Golgi Brefeldin-A resistant guanine nucleotide exchange Factor-1 (GBF1) over TRPM8 channel activity in isolated peripheral nerve endings.** Víctor Hugo Cornejo<sup>1</sup>, Matías Campos<sup>2</sup>, Rodolfo Madrid<sup>2</sup>, Andrés Couve<sup>1</sup>. <sup>1</sup>Program of Physiology and Biophysics, ICBM and Biomedical Neuroscience Institute, Faculty of Medicine, Universidad de Chile, Chile. <sup>2</sup>Department of Biology, Faculty of Chemistry and Biology, Universidad de Santiago, Chile.

84. **Schwann cells and neuroimmune components at the dentin-pulp interface.** Couve E, Lovera M, Suzuki K and Schmachtenberg O. Facultad de Ciencias, Universidad de Valparaíso, Valparaíso, Chile.
86. **The levels of t6A tRNA modification determines translation initiation during protein synthesis.** Cristian Eggers, Esteban Contreras, Alvaro Glavic. Center FONDAP for Genome Regulation, Faculty of Sciences, Universidad de Chile.
88. **Study of mutant hSOD1 overexpression in muscles cells and fibroblast: Evaluation of pro-fibrotic factors expression and ECM deposition.** <sup>1,2</sup>Juan Pablo Espinoza, <sup>2</sup>David González, <sup>2</sup>Enrique Brandan. <sup>1</sup>Universidad Santo Tomás, <sup>2</sup>Pontificia Universidad Católica de Chile.
90. **The heterochronic gene Lin28 regulates amphibian metamorphosis through disturbance of thyroid hormone homeostasis.** Faunes, F. <sup>1,2</sup>, Guzmán, D. <sup>1</sup>, Muñoz, R., Bruno, R. <sup>1</sup>, Larraín, J. <sup>1</sup>. <sup>1</sup>Center for Aging and Regeneration, Millennium Nucleus in Regenerative Biology, Faculty of Biological Sciences, P. Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>Faculty of Biological Sciences, Universidad Andrés Bello, Concepción, Chile.
92. **Characterization of innexin hemichannels in circadian pacemaker neurons of *Drosophila melanogaster*.** Elsa Fritz <sup>1</sup>, Paola Fernandez <sup>1</sup>, Jorge M. Campusano <sup>1</sup>, Juan C. Sáez <sup>1,2</sup>. <sup>1</sup>Pontificia Universidad Católica de Chile. <sup>2</sup>Centro Interdisciplinario de Neurociencia de Valparaíso.
94. **Role of post-Golgi trafficking in the formation and function of the B cell immune synapse.** Danitza Fuentes, Jorge Ibañez, Juan José Sáez, Andrea Soza and María Isabel Yuseff. Department of Cellular and Molecular Biology. Faculty of Sciences. Pontificia Universidad Católica de Chile. Santiago, Chile.
96. **Characterization of the pericyte coverage from sunitinib-resistant vasculature in renal cell carcinoma.** Francisca Jara <sup>1</sup>, Marjorie Sarmiento <sup>1</sup>, Consuelo Zumarán <sup>2</sup>, Viviana Montecinos <sup>2</sup>, Alejandro Godoy <sup>2</sup>, Roberto Pili <sup>3</sup>, Paula Sotomayor <sup>1,3</sup>. <sup>1</sup>Universidad Andres Bello, Santiago, Chile; <sup>2</sup>Pontificia Universidad Católica de Chile, Santiago, Chile, <sup>3</sup>Roswell Park Cancer Institute, NY, USA.
98. **Inducible apical-to-basolateral transcytosis involving actin cytoskeleton in MDCK cells.** Catalina Grabowski <sup>1</sup>, Erwin de la Fuente <sup>2</sup>, Lisette Sandoval <sup>3</sup>, Fabiola Sánchez <sup>4</sup>, Alfonso González <sup>1,3</sup>. <sup>1</sup>Facultad de Ciencia and Facultad de Medicina, Universidad San Sebastián, Santiago. <sup>2</sup>Departamento de Ciencias Biomédicas, Facultad de Medicina UCN, Coquimbo. <sup>3</sup>Centro de Envejecimiento y Regeneración (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago. <sup>4</sup>Instituto de Inmunología, Facultad de Medicina, Universidad Austral de Chile, Valdivia. Chile.
100. **Role of B lymphocytes from thymus during the development of lupus.** Hidalgo Y., Fuenzalida M.J., Roseblatt M., Sauma D., Bono M.R. Departamento de Biología, Facultad de Ciencias, Universidad de Chile. Fundación Ciencia & Vida. Chile.
102. **Evaluation *in vitro* of the therapeutic effect of Mesenchymal stem cell-conditioned medium on drug induced liver injury.** Y. Huang, F. Ezquer, P. Pedraza and M. Ezquer. Centro de Medicina Regenerativa, Clínica Alemana, Universidad del Desarrollo.
104. **Exosomes from human osteosarcoma cell lines: Analysis of proteins, mRNAs and miRNAs potentially involved in tumor progression.** Sofia Jerez <sup>1,2</sup>, Andre van Wijnen <sup>5</sup>, Mario Galindo <sup>1,3</sup>. <sup>1</sup>Millennium Institute on Immunology and Immunotherapy, <sup>2</sup>Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. Departments of Orthopedic Surgery & Biochemistry and Molecular Biology, Mayo Clinic.



- 106. PSD-95 regulates the development of newborn neurons in the adult mouse hippocampus.** Valentina A. Jorquera<sup>1</sup>, Muriel D. Mardones<sup>1</sup>, Andrea Herrera-Soto<sup>1</sup>, Fernando J. Bustos<sup>2</sup>, Brigitte van Zundert<sup>1</sup>, Lorena Varela-Nallar<sup>1</sup>. <sup>1</sup>Centro de Investigaciones Biomédicas (CIB), Facultad de Ciencias Biológicas y Facultad de Medicina, Universidad Andrés Bello; <sup>2</sup>McGovern Institute for Brain Research at MIT, Cambridge, USA.
- 108. Asymmetric morphogenesis of the parapineal organ in the embryonic zebrafish brain.** Carmen G. Lemus<sup>1,2,3</sup>, Karina Palma<sup>1,2,3</sup>, Steffen Härtel<sup>1,2</sup>, and Miguel Concha<sup>1,2,3</sup>. <sup>1</sup>Anatomy and Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism.
- 110. Molecular characterization of putative MCT's in *Drosophila melanogaster* brain.** Estefanía López and Jimena Sierralta. Laboratory of Cellular and Molecular Neurobiology, ICBM and BNI, Faculty of Medicine, Universidad de Chile.
- 112. InsP3R-mediated Ca<sup>2+</sup> transfer to mitochondria regulates mitochondrial dynamics; role of Sirtuin-1 and the cytoskeleton.** Alenka Lovy<sup>1</sup>, Galdo Bustos<sup>3</sup>, Ulises Ahumada<sup>2</sup>, Felix Urra<sup>2</sup>, Cesar Cardenas<sup>2</sup>. <sup>1</sup>Department of Neuroscience, Center for Neuroscience Research, Tufts School of Medicine, Boston, USA, <sup>2</sup>Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile, Geroscience Center for Brain Health and Metabolism, Santiago, Chile.
- 114. Molecular sites for the modulation of glycine receptors by the analgesic alkaloid gelsemine.** Ana M. Marileo, Carlos F. Burgos, Cesar O. Lara, Victoria San Martín, Gustavo Moraga-Cid, Gonzalo E. Yévenes. Department of Physiology, University of Concepcion, Chile.
- 116. Misfolding of TDP43 and impaired stress responses in a mouse model of FTD-ALS.** Bargsted L.<sup>1,2,3</sup>, Medinas D.<sup>2,3</sup>, Rozas P.<sup>2,3</sup>, Muñoz N.<sup>1,2,3</sup>, Osorio L.<sup>1,2,3</sup>, Hetz C.<sup>1,2,3</sup>, and Matus S.<sup>1,2,3</sup>. <sup>1</sup>Neurounion Biomedical Foundation. <sup>2</sup>Biomedical Neuroscience Institute. Faculty of Medicine, University of Chile. <sup>3</sup>FONDAP Geroscience Center for Brain Health and Metabolism. Santiago. Chile.
- 118. Phosphatidic Acid levels regulate binary cell-fate decision mediated by Notch in the sensory organ precursor cells of *Drosophila*.** Ignacio Medina<sup>1,2</sup>, Gerardo Ortiz<sup>1,2</sup>, Franco Vega<sup>1,2</sup>, Mauricio Valdivia<sup>1,2</sup>, Ursula Weber<sup>3</sup>, Mlodzik, M.<sup>3</sup>, Olgún, P.<sup>1,2</sup>. <sup>1</sup>Program of Human Genetics, ICBM, <sup>2</sup>Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile; <sup>3</sup>Icahn School of Medicine at Mount Sinai, New York, NY, USA.
- 120. Pathological Tau isoforms in the Alzheimer's disease alter mitochondrial bioenergetics in the neuronal cells line CN1.4.** Pierina R. Mendoza<sup>1,2</sup>, Rodrigo A. Quintanilla<sup>3</sup>, Alvaro A. Elorza<sup>1,2</sup>. <sup>1</sup>Center for Biomedical Research, Universidad Andres Bello, <sup>2</sup>Millennium Institute in Immunology and Immunotherapy, <sup>3</sup>Centro de Investigación Biomédica, Universidad Autónoma de Chile.
- 122. Pelado protein regulates actin polymerization during hair outgrowth in *Drosophila melanogaster*.** Claudia Molina Pelayo<sup>1</sup>, Patricio Olgún<sup>2</sup> and Álvaro Glavic<sup>1</sup>. <sup>1</sup>Laboratorio de Genética del Desarrollo, Facultad de Ciencias, Universidad de Chile. <sup>2</sup>Laboratorio de Genética del Desarrollo de *Drosophila*, Facultad de Medicina, Universidad de Chile.
- 124. Schwann cell characterization after a permanent denervation in zebrafish.** Cristina Muñoz, Maria Laura Ceci and Miguel L. Allende. FONDAP Center for Genome Regulation. Facultad de Ciencias, Universidad de Chile. Santiago. Chile.
- 126. Participation of Gap Junction intercellular communications in CD8<sup>+</sup> T cell activation and cytotoxicity against melanoma.** Mariela Navarrete<sup>1</sup>, Fernando Lillo<sup>1</sup>, M<sup>a</sup> Alejandra Gleisner<sup>1</sup>, Mercedes López<sup>1,2</sup>, Flavio Salazar-Onfray<sup>1,2</sup>. <sup>1</sup>Institute of Biomedical Sciences, Faculty of Medicine,

University of Chile, 8380453 Santiago, Chile; <sup>2</sup>Millennium Institute on Immunology and Immunotherapy, Universidad de Chile, 8380453 Santiago, Chile.

- 128. Light/dark cycles modulate asymmetric parapineal connectivity to the left habenula in zebrafish larvae.** Karina Palma<sup>1,2,3</sup>, Margarita Meynard<sup>1,2,3</sup>, Valeria Cornejo<sup>1,2</sup>, Mauricio Cerda<sup>1,2</sup>, Jorge Jara<sup>1,2</sup>, Steffen Härtel<sup>1,2</sup>, Miguel Concha<sup>1,2,3</sup>. <sup>1</sup>Anatomy and Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism.
- 130. Different sources of Slit protein regulate *Drosophila* optic lobe morphogenesis.** Tomás I. Palominos, Jimena Sierralta and Carlos Oliva. Biomedical Neuroscience Institute, Faculty of Medicine, Universidad de Chile.
- 132. Dehydroascorbic acid inhibits glioblastoma cell death, *in vitro* and *in vivo* analysis.** Eder Ramírez, Fernando Martínez, Luciano Ferrada, Katterine Salazar, Nery Jara, Francisco Nualart. Centro de Microscopía Avanzada, CMA BIO BIO, Lab Neuro-CellTT. Universidad de Concepción.
- 134. Targeting glucokinase expression in a  $\beta$ -pancreatic cell line using RNAi and CRISPRi.** Recabal A, Elizondo R, Salgado M, Ordenes P, García MA. Laboratory of Cellular Biology, Faculty of Biological Sciences, University of Concepción.
- 136. Tight coupling of astrocyte energy metabolism to synaptic activity revealed in brain tissue with genetically encoded FRET nanosensors.** Iván Ruminot<sup>1,2</sup>, Jana Schmälzle<sup>1</sup>, Belén Leyton<sup>2</sup>, L. Felipe Barros<sup>2</sup> and Joachim W. Deitmer<sup>1</sup>. <sup>1</sup>Abteilung für Allgemeine Zoologie, FB Biologie, TU Kaiserslautern, Germany. <sup>2</sup>Biological Laboratory, Centro de Estudios Científicos, 5110466 Valdivia, Chile.
- 138. Hypoxia promotes Rab5 activation, leading to tumor cell migration, invasion and metastasis.** Patricio Silva<sup>1</sup>, Pablo Mendoza<sup>1</sup>, Solange Rivas<sup>1</sup>, Jorge Díaz<sup>1,2</sup>, Andrew F.G. Quest<sup>2</sup> and Vicente A. Torres<sup>1,2</sup>. <sup>1</sup>Institute for Research in Dental Science, Faculty of Dentistry, Universidad de Chile. <sup>2</sup>Advanced Center for Chronic Diseases (ACCDIS).
- 140. Role of KDEL receptor-dependent signaling in modulating of the cytoskeleton, molecular motors and their effect on the lysosomal distribution.** Diego Tapia<sup>1</sup>, Fanny Guzman<sup>2</sup> and Jorge Cancino<sup>1</sup>. <sup>1</sup>Laboratorio de Señalización Inter-Organos, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Viña del Mar, Chile. <sup>2</sup>Núcleo de Biotecnología de Curauma (NBC), P. Universidad Católica de Valparaíso, Valparaíso, Chile.
- 142. Discovering a new regulator of the proteostasis in neurodegenerative disease models.** Vidal, R.<sup>1,2,3</sup>, Jerez, C.<sup>1,2,3</sup>, Troncoso P.<sup>1,2,3</sup>, Rivera<sup>1,2,3</sup> C. and Hetz, C.<sup>2,3</sup>. <sup>1</sup>Neurounion Biomedical Foundation, <sup>2</sup>Biomedical Neuroscience Institute, University of Chile, <sup>3</sup>Center for Geroscience, Brain Health and Metabolism Santiago, Chile.
- 144. Genetic-by-prenatal-nutrition interactions in behavior and brain morphology in *Drosophila*.** Nolberto Zúñiga<sup>1,4</sup>, Gonzalo H. Olivares<sup>1,4</sup>, Carlos Oliva<sup>2,4</sup>, Noemí Candia<sup>1,4</sup>, Jimena Sierralta<sup>2,4</sup>, Mauricio Cerda<sup>3,4</sup>, Ricardo A. Verdugo<sup>1</sup>, Patricio Olguín<sup>1,4</sup>. <sup>1</sup>Program of Human Genetics, <sup>2</sup>Program of Physiology and Biophysics, <sup>3</sup>Program of Anatomy and Developmental Biology, ICBM, [4] BNI, Faculty of Medicine, Universidad de Chile, Santiago, Chile.

**19:30 Society Members Meeting**

**21:00 Dinner**

**SATURDAY, NOVEMBER 5, 2016**

**08:00**           **Poster Mounting Session III: N° 145 to N° 217**  
**Convention Center Foyer**

**09:00 – 10:30**   **Oral Presentations IV**  
**Volcanes Room**  
**Chairs: Angara Zambrano, Universidad Austral de Chile**  
**Patricio Olgún, Universidad de Chile**

**09:00**   **Bone regeneration by using a designed nanocomposite scaffold containing mesenchymal stem cells and low amount of BMP-2. Forero J.C.<sup>1,2</sup>, Carvajal K.<sup>1</sup>, Acevedo CA.<sup>2</sup>, Ventura F.<sup>3</sup>, Osses N.<sup>1</sup>. <sup>1</sup>Instituto de Química, Pontificia Universidad Católica de Valparaíso and <sup>2</sup>Centro de Biotecnología, Universidad Técnica Federico Santa María, Valparaíso, Chile. <sup>3</sup>University of Barcelona, Ciències Fisiològiques II. Barcelona, España.**

**09:15**   **PRC2-Ezh1 mediates control of hippocampal genes: Ezh1 in transcriptional activity. Sáez-Venegas MA<sup>1,2</sup>, van Zundert B<sup>1</sup>, Montecino M<sup>1,2</sup>. <sup>1</sup>Center for Biomedical Research, Universidad Andrés Bello. <sup>2</sup>FONDAP Center for Genome Regulation.**

**09:30**   **Polarized lysosome trafficking and centrosome positioning at the immune synapse of B cells is regulated by proteasome activity and localization. Jorge Ibañez-Vega<sup>1</sup>, Felipe del Valle<sup>1</sup>, Andrea Soza<sup>2</sup> and María-Isabel Yuseff<sup>1</sup>. <sup>1</sup>Centro de envejecimiento y regeneración, Departamento de Biología Celular y Molecular. Facultad de Ciencias Biológicas. Pontificia Universidad Católica de Chile. <sup>2</sup>Departamento de Inmunología Clínica y Reumatología. Facultad de Medicina. Pontificia Universidad Católica de Chile.**

**09:45**   **Fibro/adipogenic progenitors in skeletal muscle homeostasis and regeneration. Marcela Low, Andrew Wu, Fabio Rossi. The Biomedical Research Centre, University of British Columbia, Vancouver, BC, Canada.**

**10:00**   **Metformin inhibits platelet-mediated ovarian cancer cell progression. Márquez-Gutiérrez M.<sup>1</sup>, Erices R.<sup>1,2</sup>, Cubillos S.<sup>1</sup>, Aravena R.<sup>1,3</sup>, Bravo, M.L.<sup>1,5,7</sup>, Kato S.<sup>2</sup>, Cuello M.A.<sup>2</sup>, Owen G.I.<sup>1,3,5,6,7</sup>. <sup>1</sup>Facultad de Ciencias Biológicas, <sup>2</sup>Facultad de Medicina, <sup>3</sup>Centro UC Investigación en Oncología, Pontificia Universidad Católica de Chile, <sup>4</sup>Universidad Santo Tomás, <sup>5</sup>Millennium Institute on Immunology and Immunotherapy, <sup>6</sup>Advanced Center of Cronical Diseases (ACCDiS), <sup>7</sup>Biomedical Research Consortium of Chile (BMRC).**

**10:15**   **High resolution expression profiling of the early transcriptional response deployed after spinal cord injury in *Xenopus laevis*. Peñailillo J.<sup>1</sup>, Muñoz R.<sup>1</sup>, De Domenico, E.<sup>2</sup>, Patrushev, I.<sup>2</sup>, Gilchrist, M.<sup>2</sup>, Larrain, J.<sup>1</sup>. <sup>1</sup>CARE, MINREB, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile, Santiago, Chile. <sup>2</sup>The Francis Crick Institute, London, United Kingdom.**

**10:30 – 13:00**   **Schools and Science: Students from South of Chile**  
**at the Chilean Society for Cell Biology**  
**Maullin Room**

**10:30 – 12:30 Poster Viewing Session III: 145-217 Odd Numbers  
Convention Center Foyer**

- 145. Breast cancer and astrocyte cell migration involves ATP signaling.** Marianne Brenet, 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.
- 147. Characterization of immune cells participation during soybean-triggered intestinal inflammation in zebrafish.** Máximo Coronado and Carmen G. Feijóo. Facultad de Ciencias Biológicas, Universidad Andrés Bello. Interdisciplinary Center for Aquaculture Research.
- 149. *Aggregatibacter actinomycetemcomitans* triggers pro-inflammatory cytokines release in brain-derived cells.** Díaz-Zúñiga J\*<sup>1</sup>, More J<sup>2</sup>, Galaz JL<sup>2</sup>, Vernal R<sup>1</sup>, Paula-Lima A<sup>2,3</sup>. <sup>1</sup>Conservative Dentistry Department, Faculty of Dentistry, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute, Faculty of Medicine, Universidad de Chile. <sup>3</sup>Institute for Research in Dental Science, Faculty of Dentistry, Universidad de Chile.
- 151. Antioxidant activity of laboratory cultured microalgal extracts show protection upon toxic challenge of a *C. elegans* model of Alzheimer's disease.** Gallardo G<sup>1</sup>, Minniti A<sup>2</sup>, Ehrenfeld N<sup>1</sup>, and Aldunate R<sup>1</sup>. <sup>1</sup>Escuela de Biotecnología Facultad de Ciencias Universidad Santo Tomas Santiago. <sup>2</sup>Facultad de Ciencias Biológicas P. Universidad Católica de Chile.
- 153. Lin28 is involved in the metamorphosis of *Drosophila melanogaster*.** Sergio González Itier<sup>1</sup>, Esteban Contreras<sup>1</sup>, Fernando Faunes<sup>2</sup>, Juan Larraín<sup>2</sup>, Álvaro Glavic<sup>1</sup>. <sup>1</sup>Center FONDAF for Genome Regulation, Faculty of Sciences, Universidad de Chile. <sup>2</sup>Center for Aging and Regeneration, MINREB, Faculty of Biological Sciences, P. Universidad Católica de Chile.
- 155. Astrocyte-derived exosomes interact with neurons decreasing neuritic branching.** Alejandro Luarte<sup>1</sup>, Roberto Henzi<sup>1</sup>, Juan Pablo Ramírez<sup>1</sup>, Matías Masalleras<sup>1</sup>, Isabel Villalobos<sup>1</sup>, Manuel Varas<sup>2</sup>, Úrsula Wyneken<sup>1</sup>. Laboratorio de Neurociencias<sup>1</sup> y Laboratorio de Biología de la Reproducción<sup>2</sup>, Centro de Investigaciones Biomédicas, Universidad de Los Andes, Santiago, Chile.
- 157. Role of KDEL receptor-dependent signaling on autophagy regulation.** Tomás Jiménez<sup>1</sup>, Fanny Guzman<sup>2</sup>, Patricia Burgos<sup>3</sup> and Jorge Cancino<sup>1</sup>. <sup>1</sup>Laboratorio de Señalización Inter Organelos, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Viña del Mar, Chile. <sup>2</sup>Núcleo de Biotecnología de Curauma (NBC), P. Universidad Católica de Valparaíso, Valparaíso, Chile. <sup>3</sup>Instituto de Fisiología, Facultad de Medicina; Centro Interdisciplinario de Estudios del Sistema Nervioso (CISNe), Universidad Austral de Chile, Valdivia, Chile.
- 159. Andrographolide recovers the Wnt signaling loss showed by a sporadic model of Alzheimer's disease.** Carolina B. Lindsay and Nibaldo C. Inestrosa. Centro Basal de Envejecimiento y Regeneración (CARE UC), Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.
- 161. Alhucem promotes the autophagy against nutrition stress in *Drosophila melanogaster*.** Fernanda Lourido and Álvaro Glavic. Center for Genome Regulation, Department of Biology, Faculty of Sciences, Universidad de Chile.
- 163. Acute hyperglycemia alters the cell structure of GLUT2/GLUT6-positive tanycytes from the median eminence.** 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.

- 165. Implication of reelin in the regulation of small gtpases: participation in axonal outgrowth.** Ignacio Jausoro<sup>1</sup>, Joaquín Cerda<sup>1</sup>, Felipe Court<sup>2</sup>, Alfredo Cáceres<sup>3</sup> and María Paz Marzolo<sup>1</sup>. <sup>1</sup>DBCM; Fac Ciencias Biológicas, PUC; <sup>2</sup>U. Mayor. <sup>3</sup>INIMEC CONICET, Argentina.
- 167. Pharmacologic inhibition of c-Abl alters myogenesis in C2C12 cells.** Fabián J. Montecino, Alejandra Álvarez, Hugo Olgún. Department of Cell & Molecular, Facultad Ciencias Biológicas, Pontificia Universidad Católica de Chile. Santiago, Chile.
- 169. Proteomics analysis of cerebrospinal fluid during *Xenopus laevis* metamorphosis.** Katherinne Navarrete and Juan Larraín. Pontificia Universidad Católica de Chile.
- 171. Galectin-8 promotes polarized proteasome activation and redistribution in epithelial cells.** Felipe Padilla, Christopher Holmes, Claudia Oyanadel, Priscilla Cortes, Ronan Shaughnessy, Alfonso González and Andrea Soza. Facultad de Ciencia and Facultad de Medicina Universidad San Sebastián, and Center for Aging and Regeneration (CARE), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.
- 173. Tissue repairing macrophage phenotype is induced by direct interaction with platelets.** Claudio Pérez<sup>1</sup>, Gisselle S. Escobar<sup>4</sup>, Alejandro Escobar<sup>2</sup>, Fabián Tempio<sup>4</sup>, Camila Fuentes<sup>4</sup>, Carolina Ortiz<sup>2</sup>, Patricia Hidalgo<sup>3</sup> and Mercedes López<sup>4</sup>. <sup>1</sup>Cell Therapy Laboratory, Blood Bank Service, University of Chile Clinical Hospital. <sup>2</sup>Research Institute of Dental Sciences, Faculty of Dentistry, University of Chile. <sup>3</sup>Hematology-Oncology, School of Medicine, P. Catholic University of Chile. <sup>4</sup>Disciplinary Program of Immunology, Faculty of Medicine, ICBM, University of Chile.
- 175. TMBIM family member RECS1 promotes apoptosis in response to endoplasmic reticulum (ER) stress and lysosomal inhibition.** Philippe Pihán<sup>1,2</sup>, Fernanda Lisbona<sup>3</sup>, Diego Rodríguez<sup>4</sup>, Janina Borgonovo<sup>1,2</sup>, Amado Carreras-Sureda<sup>1,2</sup>, Miguel Concha<sup>1,2</sup>, Alvaro Glavic<sup>3</sup>, Douglas R. Green<sup>4</sup> and Claudio Hetz<sup>1,2</sup>. <sup>1</sup>Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, <sup>2</sup>FONDAP Center for Brain Health and Metabolism, <sup>3</sup>Faculty of Science University of Chile, <sup>4</sup>St. Jude Children's Research Hospital, USA.
- 177. Downregulation of NETRIN1 receptor UNC5b underlies augmented angiogenesis in human gestational diabetes mellitus (GDM).** Prieto CP<sup>1</sup>, Arros A<sup>1</sup>, Andreade G<sup>2</sup>, Leria J<sup>2</sup>, Lattus J<sup>2</sup>, Aedo S<sup>2,3</sup>, Palma V<sup>1</sup>. <sup>1</sup>CTYBD Laboratory, University of Chile, Chile. <sup>2</sup>Obstetrics and Gynecology Service, Hospital Tisné-Brousse, <sup>3</sup>Department of Obstetrics and Gynecology, School of Medicine, University of Chile.
- 179. Astrocyte-derived exosomes are present in the serum and target the intestinal epithelium.** Juan Pablo Ramírez<sup>1</sup>, Soledad Sandoval<sup>1</sup>, Manuel Varas-Godoy<sup>2</sup>, Ursula Wyneken<sup>1</sup>. <sup>1</sup>Laboratorio de Neurociencias, <sup>2</sup>Laboratorio de Biología de la Reproducción, CIB, Facultad de Medicina, Universidad de Los Andes.
- 181. The Sall2 transcription factor regulates polarity and cell adhesion promoting Mouse Embryo Fibroblast cell migration.** Riffo E<sup>1</sup>, Torres V<sup>2</sup>, Torrejón M<sup>1</sup>, Pincheira R<sup>1</sup>. Universidad de Concepción<sup>1</sup>. Universidad de Chile<sup>2</sup>.
- 183. Rab5 is activated by HIF-1 $\alpha$  under hypoxic and non-hypoxic conditions.** Solange Rivas<sup>1</sup>, Patricio Silva<sup>1</sup>, and Vicente A. Torres<sup>1,2</sup>. <sup>1</sup>Institute for Research in Dental Sciences, Faculty of Dentistry, Universidad de Chile. <sup>2</sup>Advanced Center for Chronic Diseases (ACCDiS), Universidad de Chile.

185. **Non-canonical activation of necroptosis: MLKL-dependent cell death in absence of RIPK3.** **Diego A. Rodríguez<sup>1</sup>**, Ricardo Weinlich<sup>2</sup>, Patrick Fitzgerald<sup>1</sup>, Christopher P. Dillon<sup>1</sup>, Giovanni Quarato<sup>1</sup>, and Douglas R. Green<sup>1</sup>. <sup>1</sup>Dept. of Immunology, St. Jude Children's Research Hospital, Memphis, TN, 38105, USA. <sup>2</sup>Albert Einstein Jewish Institute for Education and Research, Sao Paulo, Brazil.
187. **Characterization of astrocytes derived from human induced pluripotent stem cells (iPSCs) of a patient with ALS/FTD.** **Fabiola Rojas<sup>1</sup>**, Sebastián Abarzua<sup>1,2</sup>, Rodrigo Aguilar<sup>1,2</sup>, Claudio Cappelli<sup>1</sup>, Lorena Varela-Nallar<sup>1</sup>, Fen-Biao Gao<sup>3</sup>, Martin Montecino<sup>1,2</sup>, Brigitte van Zundert<sup>1</sup>. <sup>1</sup>Center for Biomedical Research, Universidad Andres Bello, <sup>2</sup>FONDAP-CRG, and <sup>3</sup>University of Massachusetts Medical School, Worcester, USA.
189. **Osteoporotic Mesenchymal Stem Cells display higher antioxidant capacity than normal MSCs.** **Flavia Román**, Carla Urra, Omar Porras, Ana María Pino, Juan Pablo Rodríguez. Instituto de Nutrición y Tecnología de los Alimentos (INTA), Universidad de Chile.
191. **The exocyst complex regulates polarized lysosome fusion at the immune synapse of B cells.** **Juan José Sáez<sup>1,2,\*</sup>**, Juan Pablo Bozo<sup>2,\*</sup>, Jorge Ibañez<sup>2</sup>, Charles Yeaman<sup>3</sup>, María Rosa Bono<sup>1</sup> and María-Isabel Yuseff<sup>2</sup>. <sup>1</sup>Faculty of Sciences. Universidad de Chile. Santiago, Chile. <sup>2</sup>Department of Cellular and Molecular Biology. Faculty of Sciences. Pontificia Universidad Católica de Chile. Santiago, Chile. <sup>3</sup>Department of Anatomy and Cell Biology, University of Iowa, Iowa City, Iowa, USA.
193. **Molecular mechanisms underlying the functional inhibition of the glycine receptor  $\alpha 3$  subunit by PKA-mediated phosphorylation.** **Victoria P. San Martín**, Braulio Muñoz, Cesar O. Lara, Gustavo Moraga-Cid, Gonzalo E. Yévenes. Department of Physiology, University of Concepcion, Chile.
195. **Chitosan nanoparticles as gene delivery *in vivo*.** **Sánchez, Giselle**, Robles-Planells, Claudia, Acuña-Castillo, Claudio, Laboratory Biotherapies, Universidad de Santiago de Chile.
197. **Human peripheral blood lymphocytes preserve polyclonal and antigen-specific reactivity after engraftment into NOD-*scid* *IL2ry<sup>null</sup>* mice: first steps towards a “humanized” model of autoimmune arthritis.** **Katina Schinnerling<sup>1,2</sup>**, Carolina Schäfer<sup>1,2</sup>, Lilian Soto<sup>1,3</sup>, Juan Carlos Aguillón<sup>1,2</sup>. <sup>1</sup>Immune Regulation and Tolerance Research Group (<http://www.irtgroup.cl>), Programa Disciplinario de Inmunología, Instituto de Ciencias Biomédicas (ICBM), Facultad de Medicina, Universidad de Chile. <sup>2</sup>Millennium Institute on Immunology and Immunotherapy (IMII). <sup>3</sup>Sección de Reumatología, Departamento de Medicina, Hospital Clínico Universidad de Chile, Santiago, Chile.
199. **The c-Abl tyrosine kinase ablation in neurons improves memory and learning in mice and increases the expression of synaptic plasticity genes.** **Adrián González<sup>1,2</sup>**, Tomás Moyano<sup>3</sup>, Rodrigo Gutiérrez<sup>3</sup> and Alejandra Álvarez<sup>1,2</sup>. <sup>1</sup>Cell and Molecular Biology Department and <sup>2</sup>Centre for Aging and Regeneration (CARE), <sup>3</sup>Molecular Genetics and Microbiology Department, Pontificia Universidad Católica de Chile.
201. **Longitudinal characterization of lymphocytes obtained from pregnancies as low or high risk of preeclampsia.** **Fabián Tempio<sup>1&2</sup>**, Cristina Rivera<sup>1</sup>, Mauro Parra-Cordero<sup>1&3</sup>, Mercedes López<sup>1,2,3</sup>. <sup>1</sup>ICBM, Universidad de Chile, Santiago, Chile; <sup>2</sup>IMII, Universidad de Chile, Santiago, Chile; <sup>3</sup>Clinical Hospital, University of Chile, Santiago Chile.
203. **The selective degradation of synaptic Cx43 by hypoxia-induced autophagy impairs NK cell-mediated tumor cell killing.** **Andrés Tittarelli<sup>1</sup>**, Bassam Janji<sup>2</sup>, Salem Chouaib<sup>3</sup>, Flavio Salazar-Onfray<sup>1</sup>. <sup>1</sup>Universidad de Chile; <sup>2</sup>Luxembourg Institute of Health; <sup>3</sup>Gustave Roussy Cancer Campus, France.
205. **Decreased HO-1 expression in monocytes might contribute to kidney damage in Lupus Nephritis (LN) patients.** Loreto Cuitino<sup>1</sup>, **Andy Torres<sup>1</sup>**, Natalia Crisostomo<sup>1</sup>, Fabian Vega<sup>1</sup>, Javiera Obreque<sup>1</sup>,

Patricia Gajardo-Meneses<sup>1</sup>, Alexis M. Kalergis<sup>2</sup>, Carolina Llanos<sup>1</sup>. <sup>1</sup>Pontificia Universidad Católica de Chile; <sup>2</sup>Millennium Institute on Immunology and Immunotherapy.

- 207. Interactome screening identifies the endoplasmic reticulum (ER) luminal chaperone Hsp47 as a novel regulator of the unfolded protein response (UPR) transducer IRE1 $\alpha$ . Denisse Sepúlveda<sup>1,2</sup>, Diego Rojas-Rivera<sup>1</sup>, Jody Groenendyk<sup>3</sup>, Diego A. Rodríguez<sup>1</sup>, Andres Kohler<sup>1</sup>, Shinya Ito<sup>6</sup>, Hery Urra<sup>1,2</sup>, Amado Carreras-Sureda<sup>1,2</sup>, Eric Chevet<sup>6</sup>, Béatrice Bailly-Maitre<sup>4</sup>, Kazuhiro Nagata<sup>5</sup>, Marek Michalak<sup>3</sup>, Jimena Sierralta<sup>1</sup> and Claudio Hetz<sup>1,2</sup>. <sup>1</sup>Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, <sup>2</sup>FONDAP Center for Brain Health and Metabolism, <sup>3</sup>University of Alberta, Canada. <sup>4</sup>INSERM, France. <sup>5</sup>Kyoto Sangyo University, Japan. <sup>6</sup>University of Renne, France.**
- 209. Identifying markers of tolerogenicity in dexamethasone-modulated monophosphoryl lipid A-activated dendritic cells. Gabriela Ubilla<sup>1</sup>, Katina Schinnerling<sup>1,2</sup>, Jaxaira Maggi<sup>1,2</sup>, Paulina García<sup>1</sup>, Alejandro Sepúlveda<sup>3</sup>, Ricardo Verdugo<sup>3</sup>, Juan Carlos Aguillón<sup>1</sup>. <sup>1</sup>Immune Regulation and Tolerance Research Group (<http://www.irtgroup.cl>), Programa Disciplinario de Inmunología, Instituto de Ciencias Biomédicas (ICBM), Facultad de Medicina, Universidad de Chile. <sup>2</sup>Millennium Institute on Immunology and Immunotherapy (MIII). <sup>3</sup>Chilegenómico, Programa de Genética Humana, ICBM, Universidad de Chile, Santiago, Chile.**
- 211. Hypoxia and HIF-1 $\alpha$  induce CTGF expression in fibroblast and myoblasts, and require TGF- $\beta$  Smad pathway signaling. Roger Valle-Tenney and Enrique Brandan Laboratorio de Diferenciación Celular y Patología. Pontificia Universidad Católica de Chile. Santiago, Chile.**
- 213. Establishment of the muscle-tendon junction during thorax morphogenesis in *Drosophila* requires the Rho-kinase. Franco Vega-Macaya<sup>1</sup>, Catalina Manieu<sup>1</sup>, Mauricio Valdivia<sup>1</sup>, Marek Mlodzik<sup>2</sup> and Patricio Olguín<sup>1</sup>. <sup>1</sup>Program of Human Genetics, ICBM, Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile; <sup>2</sup>Icahn School of Medicine at Mount Sinai, New York, NY, USA.**
- 215. Huntingtin and exosome secretion. Isidora Vicencio<sup>1,2</sup>, Leandro Torres<sup>1,2</sup> & Maite A. Castro<sup>1,2</sup>. Molecular Metabolism Laboratory<sup>1</sup>, Center for Interdisciplinary Studies on the Nervous System CISNe<sup>2</sup>, Universidad Austral de Chile.**
- 217. Understanding the role of Orexin-A in advanced colorectal cancer. Cynthia Villarroel, Ana María Wielandt, Maripaz Martínez, Diego Zamorano, Udo Kronberg, Francisco López-Köstner. Clínica Las Condes.**
- 219. KIAA0226L, a new protein involved in MSC Immunomodulation. C. Muñoz-Bergmann<sup>1</sup>, L. Labrador<sup>1</sup>, S. Beltrán<sup>1</sup>, MF. Hernandez<sup>1</sup>, A.M Vega-Letter<sup>2</sup>, C. Cortez<sup>1</sup>, F. Court<sup>3</sup>, U. Woehlbier<sup>1</sup>, F. Carrion<sup>2</sup> and P. Manque<sup>1</sup>. <sup>1</sup>Center for Genomics and Bioinformatics, Faculty of Science, Universidad Mayor, Santiago. <sup>2</sup>Programa de Inmunología traslacional, ICIM, Faculty of Medicine, UDD, Clínica Alemana, Santiago. <sup>3</sup>Center for Integrative Biology, Faculty of Science, Universidad Mayor, Santiago.**

**13:00 – 15:00 Lunch**

**15:00 – 17:00 SYMPOSIUM “FLY ME TO GENETICS AND CELL BIOLOGY”**

**Calbuco Room**

**Chairs: Alvaro Glavic, Universidad de Chile**

**Patricio Olguín, Universidad de Chile**

**DROSOPHILA RING IN DEVELOPMENTAL ADAPTATIONS TO NUTRITIONAL STRESS (DRiDANS). Alvaro Glavic, Departamento de Biología, Facultad de Ciencias, Universidad de Chile.**

**CELL DIVISION AND EPITHELIAL TISSUE MORPHOGENESIS.** Yohanns Bellaïche, Institut Curie, PSL Research University, CNRS UMR 3215, INSERM U934, F-75248 Paris Cedex 05, France. Sorbonne Universités, UPMC Univ Paris 06, CNRS, CNRS UMR 3215, INSERM U934, F-75005, France.

**PLANAR CELL POLARITY SIGNALING: A CELL'S COMPASS FOR CELLULAR ORIENTATION DURING ORGANOGENESIS AND DEVELOPMENT.** Marek Mlodzik, PhD. Professor and Chair of the Department of Developmental & Regenerative Biology of the Icahn School of Medicine at Mount Sinai, New York, USA.

**NUTRITIONAL CONTROL OF NEURAL STEM CELLS.** Andrea H. Brand, The Gurdon Institute, University of Cambridge, Cambridge, UK CB2 1QN.

**SYMPOSIUM “THERAPEUTIC GENOME EDITING”**

**Tronador Room**

**Chair: Brigitte van Zundert, Universidad Nacional Andrés Bello**

**EPIGENETIC EDITING: A ONE-AND-DONE APPROACH TO REALIZE THE CURABLE GENOME CONCEPT?** Marianne G. Rots, Epigenetic Editing, Department of Pathology & Medical biology, University Medical Center Groningen, The Netherlands.

**OPENING DOORS FOR GLOBAL AAV CNS GENE THERAPY.** Miguel Sena-Esteves, Department of Neurology and Horae Gene Therapy Center, University of Massachusetts Medical School Worcester, MA, USA.

**CRISPR-MEDIATED GENE EDITING RECUPERATES A MOUSE MODEL OF ANXIETY/AUTISM.** Fernando J Bustos<sup>1,2</sup>, Feng Zhang<sup>1,2</sup>, Martha Constantine-Paton<sup>1</sup>. <sup>1</sup>McGovern Institute for Brain Research, MIT. <sup>2</sup>Broad institute. Cambridge, USA.

**TARGETED EPIGENETIC EDITING IN THE BRAIN TO CONTROL NEURONAL REFINEMENT AND MEMORY.** Brigitte van Zundert, Center for Biomedical Research, Universidad Andres Bello.

**17:00 – 19:30 Schools and Science: Students from South of Chile**  
**at the Chilean Society for Cell Biology**

**Maullin Room**

**17:00 – 19:00 Poster Viewing Session III: 145-217 Even Numbers**  
**Convention Center Foyer**

**146. Identification of genetic modifiers of *atlastin* in a *Drosophila* model of Hereditary Spastic Paraplegia.** Noemi Candia<sup>1,3</sup>, Gerardo Ortiz<sup>1,3</sup>, Andrés Ibacache<sup>2,3</sup>, Mauricio Ramírez<sup>2,3</sup>, Franco Vega<sup>1,3</sup>, Jimena Sierralta<sup>2,3</sup>, Andrés Couve<sup>2,3</sup> and Patricio Olguín<sup>1,3</sup>. <sup>1</sup>Program of Human Genetics, ICBM, Faculty of Medicine, Universidad de Chile; <sup>2</sup>Program of Physiology and Biophysics, ICBM; <sup>3</sup>Biomedical Neuroscience Institute (BNI), Faculty of Medicine, Universidad de Chile.

**148. Differing poor prognosis associated gene expression in ovarian cancer patients with varying body mass index.** E. Cumsille<sup>1</sup>, J. Fry<sup>1,3</sup>, S. Kato<sup>2</sup>, P. González<sup>1</sup>, C. Muñoz<sup>1</sup>, C. Ibañez<sup>2,3</sup>, M.A Cuello<sup>2</sup>, G. I. Owen<sup>1,2,3</sup>, M.L. Bravo<sup>1,3</sup>. <sup>1</sup>Facultad de Ciencias Biológicas, <sup>2</sup>Facultad de Medicina, Pontificia Universidad Católica de Chile. <sup>3</sup> Instituto Milenio en Inmunología e Inmunoterapia (IMII).



- 150. Lypopolysaccharide-induced migration and increase of SNAIL factor in bladder urothelial. Cesar Echeverría<sup>1,2</sup>, Valentina Romero, <sup>2</sup>Alfredo Sagredo, <sup>2</sup>Eduardo Sagredo, <sup>1</sup>Ignacio Montorfano, <sup>3</sup>Felipe Simon and <sup>2</sup>Ricardo Armisen. <sup>1</sup>Universidad Bernardo O Higgins, Laboratorio de Bionanotecnología, General Gana 1780, Santiago, Chile, <sup>2</sup>Centro de Investigación y Tratamiento del Cáncer, Facultad de Medicina, Universidad de Chile, Chile, <sup>3</sup>Laboratorio de Fisiopatología Integrativa, Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas and Facultad de Medicina, Universidad Andrés Bello, Santiago, Chile.**
- 152. Role of the exocist complex in migrating B lymphocytes. Goles Nicolas, Yuseff, Maria Isabel. Pontificia Universidad Católica de Chile.**
- 154. The c-Abl kinase modulates dendritic spine number and morphology. Daniela Gutiérrez<sup>1,2</sup>, Lina Vargas<sup>1,2</sup>, Alejandra Álvarez<sup>1,2</sup>. <sup>1</sup>Cell & Molecular Biology and, Biological Sciences Faculty, <sup>2</sup>CARE Chile-UC, Pontificia Universidad Católica de Chile, Santiago, Chile.**
- 156. Palmitic acid-mediated G protein-coupled receptor 40 (GPR40) activation inhibits autophagy and promotes inflammation in hypothalamic neurons. María Paz Hernández C., Carolina Oses, Eugenia Morselli. Physiology Department, Faculty of Biological Sciences. Pontificia Universidad Católica de Chile, Santiago, Chile.**
- 158. Epigenetic changes in ALS and FTD mice models. Nur Jury<sup>1</sup>, Ivan Diaz<sup>1</sup>, Estibaliz Ampuero<sup>1</sup>, Miguel V. Guerra<sup>1</sup>, Sebastian Abarzua<sup>1,2</sup>, Martin Montecino<sup>1,2</sup>, Lorena Varela-Nallar<sup>1\*</sup>, Brigitte van Zundert<sup>1</sup>. <sup>1</sup>Centro de Investigaciones Biomédicas, U. Andrés Bello, <sup>2</sup>FONDAP Center for Genome Regulation, Chile.**
- 160. Apical constriction works during the epithelial-to-mesenchymal transition underlying the origin of laterality organ precursors in zebrafish. Loreto López-Gutiérrez<sup>1,2,3</sup>, Eduardo Pulgar<sup>1,2,3</sup>, Carl-Philipp Heisenberg<sup>4</sup>, and Miguel Concha<sup>1,2,3</sup>. <sup>1</sup>Anatomy and Developmental Biology, ICBM, Faculty of Medicine, Universidad de Chile. <sup>2</sup>Biomedical Neuroscience Institute. <sup>3</sup>Center for Geroscience, Brain Health and Metabolism. <sup>4</sup>Institute of Science and Technology, Austria.**
- 162. Skeletal myotubes and muscles expressing human SOD1G93A trigger motoneuron neurodegeneration through the release of a toxic factor(s). Pablo Martínez<sup>1</sup>, Mónica Silva<sup>2</sup>, Nélida Lopez<sup>3</sup>, Sebastián Abarzúa<sup>1</sup>, María Florencia Tevy<sup>3</sup>, Enrique Jaimovich<sup>2</sup>, Brigitte van Zundert<sup>1</sup>. <sup>1</sup>Universidad Andrés Bello. <sup>2</sup>Universidad de Chile. <sup>3</sup>Universidad Mayor.**
- 164. p53-related protein kinase (PRPK) modulates the crosstalk between Arp2/3 and Myosin-II activities in *Drosophila* haemocytes. Emiliano Molina and Álvaro Glavic. Developmental biology laboratory, Faculty of Sciences, Universidad de Chile.**
- 166. Biting hard: the expression of SPARC and fibrillar collagens in shark and frog teeth demonstrates enamel homology. David Muñoz<sup>1</sup>, Sébastien Enault<sup>2</sup>, Mélanie Debais-Thibaud<sup>2</sup>, and Sylvain Marcellini<sup>1</sup>. <sup>1</sup>University of Concepción, Chile. <sup>2</sup>University of Montpellier, France.**
- 168. The transcription factor SoxD controls neuronal arborization in the *Drosophila* visual system. Esteban G Contreras<sup>1,2,3</sup>, Mauricio Valdivia<sup>1</sup>, Alvaro Glavic<sup>2</sup>, Andrea H Brand<sup>3</sup>, Jimena Sierralta<sup>1</sup> and Carlos Oliva<sup>1</sup>. <sup>1</sup>Faculty of Medicine and <sup>2</sup>Faculty of Science, Universidad de Chile and <sup>3</sup>The Gurdon Institute, University of Cambridge, UK.**
- 170. Down-regulation of glucose transport in vascular smooth muscle cells by high extracellular glucose concentration. Alejandra Pérez, Marianne Brenet, Carla X. Bittner, Carolina Villanueva, L. Felipe Barros and Carlos B. González. Instituto de Fisiología, Universidad Austral de Chile and Centro de Estudios Científicos.**

172. **Alzheimer's disease fibroblasts present a characteristic mitochondrial dysfunction profile.** M.J. Pérez<sup>1</sup>, D. Ponce<sup>3</sup>, C. Osorio-Fuentealba<sup>2</sup>, M.I. Behrens<sup>3</sup>, R.A. Quintanilla<sup>1,2</sup>. <sup>1</sup>Laboratory of Neurodegenerative Diseases, Universidad Autónoma de Chile, Chile; <sup>2</sup>Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA). <sup>3</sup>ICB, Universidad de Chile, Chile.
174. **H<sub>2</sub>O<sub>2</sub>-induced cell death in lymphocytes from Mild Cognitive Impairment and Alzheimer disease patients is reduced by PARP-1 inhibitors.** Salech F<sup>a</sup>, Ponce DP<sup>a,d</sup>, San Martín CD<sup>a,d</sup>, Chacón C<sup>a</sup>, Henríquez M<sup>a</sup>, Quest AFG<sup>a,b</sup>, Behrens MI<sup>a,b,c,d</sup>. <sup>a</sup>ICBM and <sup>b</sup>CEMC/ACCDiS Facultad de Medicina UCH, <sup>c</sup>Clínica Alemana de Santiago and <sup>d</sup>Hospital Clínico Universidad de Chile.
176. **Assessment of retinal function in serotonin transporter (SERT) knockout mice.** Quiroz C<sup>1,2</sup>, Vielma AH<sup>1,2</sup>, Olivares FA<sup>1</sup>, Guajardo FG<sup>3</sup>, Ibaceta C<sup>1</sup>, Sotomayor-Zárate R<sup>3</sup>, Schmachtenberg O<sup>1</sup>, Palacios AG<sup>1</sup>, Moya PR<sup>1,2,3</sup>, Chávez AE<sup>1,2</sup>. <sup>1</sup>Instituto Milenio CINV, <sup>2</sup>Núcleo Milenio NU-MIND and <sup>3</sup>Centro de Neurobiología y Plasticidad Cerebral, Facultad de Ciencias, Universidad de Valparaíso.
178. **Post-Golgi apical and basolateral routes involving common-recycling endosomes (CRE) and Rab11-apical recycling endosomes (ARE) in tandem.** Claudio Retamal<sup>1,4</sup>, Pedro Zamorano<sup>2</sup>, Erwin de la Fuente<sup>5</sup>, Alfonso González<sup>1,4</sup>. <sup>1</sup>Centro de Envejecimiento y Regeneración (CARE), and <sup>2</sup>Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas; <sup>4</sup>Facultad de Ciencia and Facultad de Medicina, Universidad San Sebastián, Santiago Chile; <sup>3</sup>Departamento de Ciencias Biomédicas, Facultad de Medicina, UCN, Coquimbo, Chile.
180. **Cancer cells with defective oxidative phosphorylation require InsP3R-mediated Ca<sup>2+</sup> signals for survival.** Melany Rios<sup>1</sup>, Fabian Jaña<sup>1</sup>, Alenka Lovy<sup>2</sup>, Felix Urra<sup>1</sup>, Ulises Ahumada<sup>1</sup>, Cesar Cardenas<sup>1</sup>. <sup>1</sup>Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile and Geroscience Center for Brain Health and Metabolism, Santiago, Chile. <sup>2</sup>Department of Neuroscience, Center for Neuroscience Research, Tufts School of Medicine, Boston, Massachusetts 02111, USA.
182. **Subcellular distribution and activity of the demethylase LSD1 in an epilepsy model in mice.** Rivera C; Noches V; Olivares V and Andrés ME. Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile.
184. **The c-Abl kinase regulates the antioxidant enzyme Catalase in neuronal models of Niemann-Pick C disease.** Consuelo Rojas<sup>1,2,3</sup>, Nancy Leal<sup>2</sup>, Juan Castro<sup>1</sup>, Juan-Esteban Oyarzún<sup>1</sup>, Tamara Marín<sup>1,2</sup>, Alejandra Alvarez<sup>2</sup>, Silvana Zanlungo<sup>1</sup>. <sup>1</sup>Department of Gastroenterology, Medicine Faculty, <sup>2</sup>Department of Cellular and Molecular Biology, Biological Sciences Faculty, <sup>3</sup>Department of Pharmaceutical Chemistry, Chemistry Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile.
186. **Of transfer RNA (tRNA) modification and motor neurons.** Rojas-Benítez D\*. and Allende ML. Centro FONDAF de Regulación del Genoma. Facultad de Ciencias, Universidad de Chile.
188. **Sepsis induces muscular atrophy associated with mitochondrial dysfunction and expression of connexin-based hemichannels.** Fujiko Saavedra<sup>1</sup>, Elisa Balboa<sup>2</sup>, Valeria Ramirez<sup>1</sup>, Rosalba Escamilla<sup>2</sup>, Juan C. Sáez<sup>2,3</sup>, Tomás Regueira<sup>1</sup>. <sup>1</sup>Centro de Pacientes Críticos, Clínica Las Condes, Santiago. <sup>2</sup>Pontificia Universidad Católica de Chile, Santiago. <sup>3</sup>Centro Interdisciplinario de Neurociencias de Valparaíso, Valparaíso.
190. **IIIG9: Analysis of its subcellular localization and the effect of its inhibition in ependymal cells.** Salazar K., Baeza V., Bertinat R., Martínez F., Nualart F., Cifuentes M. Laboratory of Neurobiology and Stem Cells, Neuro CellTT, Center for Advanced Microscopy CMA BIOBIO, Concepcion University. CIBER BIONAND, Malaga University.

- 192. Circulating exosomes from prostate cancer increase with malignancy and modify normal prostate cells.** Eliana Andahur<sup>1</sup>, Mei Chin<sup>2</sup>, Christian Ramos<sup>1</sup>, Emma Guns<sup>2</sup>, **Catherine Sánchez<sup>1</sup>**. <sup>1</sup>Clínica las Condes, Chile; <sup>2</sup>Vancouver Prostate Centre, Canadá.
- 194. VEGF-A produced within the tumor microenvironment induce activation of prostate fibroblasts.** **Marianela Sánchez<sup>1</sup>**, Javier Cerda-Infante<sup>1,2</sup>, Paola Conejeros<sup>1</sup>, Alejandra Alarcón<sup>1</sup> Alejandro Godoy<sup>3</sup> and Viviana P. Montecinos<sup>1</sup>. Departments of <sup>1</sup>Hematology-Oncology, <sup>2</sup>Cellular Biology and Physiology. Pontificia Universidad Católica de Chile.
- 196. Role of mutant presenilin-1 in mitochondrial calcium homeostasis in a familial Alzheimer's disease model.** **Santiago Sepúlveda<sup>1,2</sup>**, Camila Leyton<sup>1</sup>, Ulises Ahumada<sup>2</sup>, J. Kevin Foskett<sup>3</sup>, Cesar Cárdenas<sup>2</sup> and Marioly Müller<sup>1</sup>. <sup>1</sup>Department of Medical Technology, Faculty of Medicine, <sup>2</sup>Anatomy and Developmental Biology Program, ICBM, University of Chile and Geroscience Center for Brain Health and Metabolism, Santiago, Chile. <sup>3</sup>Department of Physiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA.
- 198. Adolescent binge-drinking alcohol consumption affects mitochondrial dynamics and bioenergetics in the hippocampus of adult brain.** **Cheril Tapia-Rojas**, Francisco J. Carvajal, Rodrigo Mira, Waldo Cerpa, Juan A. Orellana and Rodrigo A. Quintanilla. Centro de Investigación y Estudio del Consumo de Alcohol en Adolescentes (CIAA), Universidad Autónoma de Chile, Santiago.
- 200. Mining the aging transcriptome of *Drosophila melanogaster*.** Nélica Lopéz-Quilodrán<sup>+</sup>, Carlos Caris<sup>+</sup>, Alex Slater, Francisco Muñoz, Raúl Arias, Vinicius Maracaja-Coutinho, **María Florencia Tevy**. Centro de Genómica y Bioinformática, Universidad Mayor.
- 202. Is the antioxidant capacity of mammalian cells connected with motility and viability?** **Nicolas Tobar**, Violeta Kallens, Jessica Molina, Alejandra V. Parra, Jorge Martínez & Omar Porras. PDCBM, Laboratorio de Biología Celular, INTA, Universidad de Chile.
- 204. Paracrine effect of the endothelium on prostate cancer cells.** **Verónica Torres-Estay<sup>1</sup>**, Patricia Fuenzalida<sup>1</sup>, Daniela Carreño<sup>1</sup>, Catalina Asencio<sup>1</sup>, Carla Cembrano<sup>1</sup>, Loreto Véliz<sup>1</sup>, Viviana P. Montecinos<sup>2</sup>, Xavier Figueroa<sup>1</sup>, Juan Carlos Sáez<sup>1</sup>, Julio Amigo<sup>1</sup>, and Alejandro S. Godoy<sup>1,3</sup>. <sup>1</sup>Departamento de Fisiología; <sup>2</sup>Departamento de Hematología-Oncología, Pontificia Universidad Católica, Santiago, Chile; <sup>3</sup>Department of Urology, Roswell Park Cancer Institute, Buffalo, NY.
- 206. Testosterone enhances glucose metabolism in cardiomyocytes.** **Mayarling Troncoso**, Mario Pavez M, Daniel Lagos, Javier Durán and Manuel Estrada. Department of Physiology and Biophysics, Faculty of Medicine, University of Chile.
- 208. Platelets promote the process of Vasculogenic Mimicry in ovarian and gastrointestinal cancer cells.** **Valdivia A<sup>1,7</sup>**, Aravena R<sup>4,7</sup>, Racordon D<sup>1,7</sup>, Sandoval A<sup>1,7</sup>, Erices R<sup>1,2</sup>, Bravo ML<sup>1,3,5,6</sup>, Kato S<sup>2</sup>, Cuello M<sup>2</sup>, Gonzalez P<sup>1</sup>, Corvalan AH<sup>2,3,7</sup> & Owen GI<sup>1,3,5,6,7</sup>. <sup>1</sup>Facultad de Ciencias Biológicas, <sup>2</sup>Facultad de Medicina, <sup>3</sup>Centro UC Investigación en Oncología, Pontificia Universidad Católica de Chile, <sup>4</sup>Universidad Santo Tomas, <sup>5</sup>Millennium Institute on Immunology and Immunotherapy, <sup>6</sup>Biomedical Research Consortium of Chile (BMRC), <sup>7</sup>Advanced Center of Chronic Diseases (ACCDiS).
- 210. Expression and activity of FOXO1/FOXO3A transcription factors in human microvascular endothelial cells.** Ortega Alexis; Breguel Pamela; Reyes Lilian; Henríquez Berta; **Vázquez Mary Carmen**. Departamento de Ciencias Biológicas y Químicas, Facultad de Ciencia, Universidad San Sebastián.

- 212. Role of the cytoskeleton in ATP-dependent GLUT4 translocation in skeletal muscle cells.** Erick Vergara, M<sup>a</sup> Fernanda Álvarez, César Osorio-Fuentealba. Laboratorio de Biología Molecular, Celular y Metabolismo, UMCE.
- 214. Cannabinoid receptors regulate inhibitory feedback onto OFF bipolar cells of rat retina.** Alex H. Vielma<sup>1</sup>, Oliver Schmachtenberg<sup>1</sup>, Andrés E. Chávez<sup>1</sup>, Marco Fuenzalida<sup>2</sup>. <sup>1</sup>CINV, Facultad de Ciencias, Universidad de Valparaíso, Chile. <sup>2</sup>CNPC, Facultad de Ciencias, Universidad de Valparaíso, Chile.
- 216. Haptoglobin, EIF4e and Annexin-A4 induce a mature phenotype and migration capacity in human dendritic cells: A potential new role as damage associated molecular patterns (DAMPs).** Vivanco S\*, Lavín F\*, Reyes-Farias M., Budini M., Salazar-Onfray F., González F.E. Millennium Institute on Immunology & Immunotherapy, University of Chile.
- 218. KIAA0226L is a new component of autophagy network involved in ALS pathogenesis.** M. Nassif<sup>1</sup>, S. Beltran<sup>1</sup>, E. Vicencio<sup>1</sup>, J. Arcos<sup>1</sup>, C. Munoz-Bergmann<sup>1</sup>, M.F. Hernandez<sup>1</sup>, C. Díaz<sup>1</sup>, C. Cortez<sup>1</sup>, D. Medinas<sup>1</sup>, C. Hetz<sup>2</sup>, P. Manque<sup>1</sup> and U. Woehlbier<sup>1</sup>. <sup>1</sup>Center for Genomics and Bioinformatics, Faculty of Science, Universidad Mayor, Santiago. <sup>2</sup>Biomedical Neuroscience Institute, University of Chile, Santiago.

**19:00 – 20:00 CLOSING LECTURE**

**“SOCIEDAD DE BIOLOGIA CELULAR DE CHILE”**

**Volcanes Room - Language: Spanish**

**Chair: Andrés Couve, SBCCH President, Universidad de Chile**

**INVESTIGACIONES INTERDISCIPLINARIAS EN TORNO A LOS PRIMEROS POBLAMIENTOS PREHISTÓRICOS DE CHILE.** Lautaro Núñez, Instituto de Arqueología y Antropología, San Pedro de Atacama, Universidad Católica del Norte.

**20:00 AWARDS CEREMONY**

**Volcanes Room**

**Nikon - Loncotec: Best Images in Cell Biology**

**Genexpress: Best Presentations in Oral and Poster Communications**

**20:45 Closing Remarks**

**Volcanes Room**

**Chair: Andrés Couve, President SBCCH, Universidad de Chile**

**21:30 Dinner**