CHILEAN SOCIETY FOR CELL BIOLOGY

XXV ANNUAL MEETING
November, 1st – 5th, 2011
Puerto Varas

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CHILEAN SOCIETY FOR CELL BIOLOGY
XXV ANNUAL MEETING

NOVEMBER, 1st-5th, 2011
PUERTO VARAS

P R O G R A M

TUESDAY, NOVEMBER 1st, 2011

09:00 – 13:00 **Registration**
Poster Mounting Session I: N° 1 to N° 85
Convention Center Foyer

11:30 – 12:30 **Technical Lectures - Calbuco Room**
WITec GmbH and Genexpress
Combining High Resolution Optical and Scanning Probe Microscopy
Andrea Jaub. Senior Application Scientist, WITec GmbH, Germany

Technical Lectures - Tronador Room
Eppendorf and Arquimed
Resource Optimization of PCR Equipment, Influence of Pipetting Techniques and Residues to Obtain Reproducible Results
Josely Chiarela. Eppendorf, Brasil

12:30 – 13:30 **Technical Lectures - Calbuco Room**
LifeTechnologies and GrupoBios SA
Attune® Acoustic Focusing Cytometer and New Molecular Probes® Reagents for Cell Biology with a Focus on Violet Laser Capabilities
Michael Olszowy, Director, Flow Cytometry Systems, LifeTechnologies

13:00 – 14:30 **Lunch**

14:30 – 15:30 **Inauguration**

PLENARY LECTURE LUIS IZQUIERDO FERNANDEZ
Volcanes Room - Chair: Maria Rosa Bono

FROM RIBOSOMES TO PSYCHOSIS. Alfonso González. Departamento de Inmunología Clínica y Reumatología, Fac. Medicina. Centro de Envejecimiento y Regeneración (CARE). Fac. Ciencias Biológicas. Pontificia Universidad Católica de Chile.

15:30 – 17:30 **Oral Presentations I**
Volcanes Room - Chair: Maria Rosa Bono and Co-Chair: Mauricio Gonzalez

***In vivo* ANALYSIS OF CELLULAR TOXICITY MECHANISMS OF ALPHA-SYNUCLEIN AGGREGATES AND POTENTIAL THERAPEUTIC DRUGS IN *Caenorhabditis elegans*.** A. Minniti[4], I. Alfaro[2], S. Bernales[2,3] and **R. Aldunate[1]**. [1]Escuela de Biotecnología, Universidad Santo Tomás, [2]Fundación Ciencia para la Vida, [3]Medivation Inc., [4]Fac. Ciencias Biológicas, P. U. Católica de Chile.

UNDERSTANDING THE NETWORK BETWEEN Th17 CELLS, REGULATORY T CELLS AND MYELOID DERIVED SUPPRESSOR CELLS IN THE TUMOR MICROENVIRONMENT. Sarah Núñez[1], Juan José Sáez[1], Mario Rosemblatt[1,2], María Rosa Bono[1] and Daniela Sauma[1,2]. [1]Departamento de Biología, Facultad de Ciencias, Universidad de Chile; [2]Fundación Ciencia para la Vida. sarah.nunez.c@gmail.com

MEGALIN PROTEOLYTIC PROCESSING AND PHOSPHORYLATION IS AFFECTED BY OCRL1 DOWN REGULATION. Lisette Sandoval[1], Antonella De Matteis[2] and María Paz Marzolo[1]. [1]Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile. [2]Telethon Institute of Genetics and Medicine, 80131 Naples, Italy. mmarzolo@bio.puc.cl

REPROGRAMMING OF A HUMAN CARCINOMA CELL LINE BY ZEBRAFISH EMBRYONIC MICROENVIRONMENTS. Leonel Muñoz, Germán Reig, and Miguel Concha. Laboratory of Experimental Ontogeny - LEO, ICBM, Faculty of Medicine, University of Chile; and Biomedical Neuroscience Institute, Santiago, Chile. lamunoz@med.uchile.cl; mconcha@med.uchile.cl

LACONIC, A GENETICALLY ENCODED FRET NANOSENSOR FOR LACTATE. [1,2]**Alejandro San Martín**, [1,2]Sebastián Ceballo, [3]Wolf B. Frommer and [1]L. Felipe Barros. [1]Centro de Estudios Científicos (CECs), Valdivia, [2]Universidad Austral de Chile, Valdivia, & [3]Carnegie Institution of Washington. aalejo@cecs.cl

RUNX2 PROMOTES MIGRATION AND INVASION IN HUMAN OSTEOSARCOMA CELL LINES. **Óscar Vega[1,2],** Claudia Lucero[1,2], Julio Tapia[2], Marcelo Antonelli[2], Mercedes Lopez[1,3], Flavio Salazar-Onfray[1,3], Gary S Stein[4], Andre van Wijnen[4], Mario Galindo[1,2]. [1]Millennium Institute on Immunology and Immunotherapy, [2]Programa de Biología Celular y Molecular, [3]Prode Inmunología, ICBM, Facultad de Medicina, Universidad de Chile. [4]Department of Cell Biology and Cancer Center, University of Massachusetts Medical School, USA. mgalindo@med.uchile.cl

ROLE OF SYNDECAN-4 IN WNT/PLANAR CELL POLARITY PATHWAY DURING MOUSE DEVELOPMENT. **Noelia Escobedo[1],** Marjorie Farías[1], Osvaldo Contreras[1], Hector Carrasco[1], Uyen Tran[2], Oliver Wessely[2], Andrew Copp[3] and Juan Larraín[1]. [1]Center for Aging and Regeneration, Millennium Nucleus for Regenerative Biology, Faculty of Biological Sciences, P. Universidad Católica de Chile; [2]Department of Cell Biology, Louisiana State University, Health Sciences Center, EEUU; [3]Institute of Child Health, University College London,UK. jlarrain@bio.puc.cl

TESTOSTERONE INCREASES GLUCOSE UPTAKE THROUGH GLUT4 AND CaMKII/AMPK PATHWAY IN RAT CARDIOMYOCYTES. **Carlos Wilson,** Ariel Contreras, Katherine Montoya, Rodrigo Maass and Manuel Estrada. Facultad de Medicina, ICBM, Universidad de Chile. carloswr@gmail.com

17:30 – 18:30 **Coffee Break – Exhibitors – Poster Viewing: Session I**
Convention Center Foyer

18:30 – 19:30 **PLENARY LECTURE CENTER FOR AGING AND REGENERATION (CARE)**
P. UNIVERSIDAD CATOLICA DE CHILE
Volcanes Room - Chair: Nibaldo C. Inestrosa

A NANOSCALE VIEW INTO THE DYNAMIC OF AMPA RECEPTOR ORGANIZATION IN SYNAPSES. **Daniel Choquet.** Institut Interdisciplinaire de Neuroscience, UMR 5297 CNRS-Université de Bordeaux. dchoquet@u-bordeaux2.fr

19:30 – 20:30 **BEST THESES AWARDS FUNDACION CHILENA PARA BIOLOGIA CELULAR**
Volcanes Room - Chair: Federico Leighton and Co-Chair: Maria Rosa Bono

UNDERGRADUATE
FELIPE BELTRAN GONZALEZ, Biochemistry, Universidad Austral de Chile.
GLUT3 is a key component in glucose transport modulation by ascorbic acid.
Thesis Advisor: Maite Castro, PhD

GRADUATE
CARLA BITTNER HOFMANN, PhD in Sciences, Mention in Cell & Molecular Biology.
Universidad Austral de Chile
Acute modulation of astrocytic glucose metabolism by neuronal signals.
Thesis Advisor: L. Felipe Barros, PhD

20:30 **Dinner**

22:00 – 23:30 **Poster Presentations - Session I: N° 1 to N° 85**
Convention Center Foyer
Coordinators: Alejandra Alvarez, Maite Castro, Pedro Zamorano

(1) HEMICHANNELS FORMED BY PANNEXIN1 ARE ACTIVATED BY EXTRACELLULAR ATP IN ADIPOCYTES. **Fernández PE,** Benvenuto MA, Sáez JC. Departamento de Fisiología, Pontificia Universidad Católica de Chile. paolafernandez.bq@gmail.com

(2) ROLE OF mTOR PATHWAY IN POST-MITOTIC TRANSLATION OF INHERITED RUNX2 MRNA IN MOUSE PRE-OSTEOBLASTS CELLS. **Alejandra Aránguiz**[1], Nelson Varela[1], Marcelo Antonelli[1], Zhang Ying[3], Gary Stein[3], Andre van Wijnen[3] y Mario Galindo[1]. [1]Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. [3]Department of Cell Biology and Cancer Center, University of Massachutsetts Medical School, USA. mgalindo@med.uchile.cl

(3) ACTIVATION OF THE UNFOLDED PROTEIN RESPONSE (UPR) ENHANCES MOTOR RECOVERY AFTER SPINAL CORD INJURY. **Vicente Valenzuela[1,2,3],** Eileen Collyer[3], Donna Armentano[4], Geoffrey Parsons[4], Felipe A. Court[3,5] and Claudio Hetz[1,2,5]. [1]Biomedical Neuroscience Institute and [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile. [3]Millennium Nucleus in Regenerative Biology (MINREB), Catholic University of Chile. [4]Department of Molecular Biology, Genzyme Corporation, USA. [5]Neurounion Biomedical Foundation. chetz@med.uchile.cl, fcourt@bio.puc.cl

(4) PHOSPHOENOLPYRUVATE CARBOXYKINASE EXPRESSION IN A CELLS FROM HUMAN AND MOUSE PANCREAS. **Romina Bertinat[1]**, Fabián Pardo[1], Cristian Carrasco[2], Karen Jaramillo[1], Juan Carlos Slebe[1] and Alejandro J. Yáñez[1]. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile[1]; Unidad Anatomía Patológica, Hospital Base Valdivia[2], Valdivia, Chile. romibert@gmail.com

(5) ANALYSIS OF THE EPIGENETIC RESPONSE UNDER CONDITIONS OF CELLULAR ENERGY RESTRICTION DURING THE ACCLIMATIZATION OF *C. carpio*: THE eNosC COMPLEX. **Fernández de la Reguera C.,** Nardocci G., Morales J., Molina A., Vera MI., Alvarez M. L. de Biología Celular y Molecular, F. de Ciencias Biológicas, U. Andrés Bello, Viña del Mar, Chile. malvarez@unab.cl; c.fernandezde.c@uandresbello.edu

(6) TISSUE FACTOR PATHWAY INHIBITOR (TFPI) AND TISSUE FACTOR (TF) CO-LOCALIZE IN LIPID RAFTS (LR) OF PLATELET MEMBRANES: MECHANISM TO INHIBIT PLATELET PROCOAGULANT (PCA) ACTIVITY. **González César**, Matus Valeria, Pereira Jaime, Mezzano Diego, Panes Olga. Department of Hematology-Oncology, School of Medicine, P. Catholic University of Chile. cesar.gonzalezg@usach.cl (Sponsor: V. Velarde)

(7) INVOLVEMENT OF CONNEXIN26 HEMICHANNELS IN PURINERGIC SIGNALING AND THEIR POSSIBLE CONTRIBUTION IN OTOTOXICITY. **Figueroa VA.[(1,3)],** Jara O.[(1)], Martínez AD.[(1)], Fiori M.[(2)], Altenberg GA.[(2)], and Sáez JC.[(1,3)]. [(1)]Centro Interdisciplinario de Neurociencias de Valparaíso (CINV), Universidad de Valparaíso, [(2)] Department of Cell Physiology and Molecular Biophysics and Center for Membrane Protein Research, Texas Tech University Health Sciences Center, [(3)]Departamento de Fisiología, P. Universidad Católica de Chile. vaniafigueroa@gmail.com

(8) INCREASE COPPER LEVELS IN AN HEPATOMA CELL LINE MIMICKING NPC1 PHENOTYPE. **Mary Carmen Vázquez[1]**, Mauricio González[2] and Silvana Zanlungo[1]. [1]Departamento de Gastroenterología, Facultad de Medicina, P. Universidad Católica de Chile. [2]Laboratorio de Bioinformática y Expresión Génica, INTA, Universidad de Chile. mc.vazquez.rodriguez@gmail.com

(9) EVALUATION OF THE CYTOTOXIC EFFECT OF A HYDROALCOHOLIC EXTRACT OF *Ruta graveolens* IN THE HEK 293 AND HUVEC CELL LINES. **Ignacio Jofré[1,3]**, Fernando Romero[1], Jenny Rudlinger[1], Karina Mansilla[1], Jorge Parodi[2], Raúl Salvatici[1], Patricia Navarrete[1]. [1]Center of Neurosciences and Peptides Biology- BIOREN, University of La Frontera, Temuco, Chile. [2]Laboratory of Molecular Neurobiology, FONDAP-CRCP, Pontificia Universidad Católica de Chile. [3]Biotechnology career, University of La Frontera, Temuco, Chile. Partially supported by Dirección de Investigación, University of La Frontera. ignaziojf@gmail.com

(10) HIGH LEVELS OF LEPTIN DECREASES CILIARY ACTIVITY, THROUGH THE ACTIVATION OF NOS IN CILIATED CELLS OF THE RAT OVIDUCT. **Carolina Oses[1]**, Maria Paz Hernández[1], Daniela Careño[1], Carmen Llados[1], Manuel Villalón[1]. [1]Department of Physiology, Faculty of Biological Sciences. Pontificia Universidad Católica de Chile, Santiago, Chile. cdoses@uc.cl

(11) NEURONAL ENDOPLASMIC RETICULUM ORGANIZATION AND MODULATION OF CALCIUM SIGNALS. **Figueroa C[1]**, San Martín C[3], Couve A[2], Härtel S[1], Ramírez O[1]. [1]SCIAN-Lab,

[2]Laboratory of Cellular and Molecular Neurobiology, [3]Molecular Studies Center of the Cell, ICBM, Faculty of Medicine, U-Chile. carolina.figueroa.a@gmail.com

(12) NEOGENIN 1 (Neo1): A TARGET OF SONIC HEDGEHOG SIGNALLING PATHWAY IN HUMAN NEUROBLASTOMA CELLS. **Natalie Espinoza G.[1]**, Luis A. Milla[1] and Verónica Palma[1]. [1]Laboratory of Stem Cells and Development. Faculty of Sciences, University of Chile, Santiago, Chile. nat.espinozagiacomozzi@gmail.com

(13) A FAILURE IN ASCORBIC ACID HOMEOSTASIS IS RESPONSIBLE FOR THE METABOLIC IMPAIRMENT IN HUNTINGTON'S DISEASE. [1]**Felipe Beltran,** [1]Macarena Solis, [2]Rene Vidal, [13]Carlos Cepeda, [1]Ilona I. Concha, [2]Claudio Hetz, [3]Michael Levine, [1]Maite A. Castro. [3]Semel, UCLA; I. Ciencias Biomedicas, U. Chile; I. Bioquímica y Microbiología, UACh.

(14) DIMEBON PROTECTS FROM CELL DEATH-INDUCED BY OXIDATIVE STRESS AND ALPHA-SYNUCLEIN OVER-EXPRESSION, AND DECREASES ALPHA-SYNUCLEIN PROTEIN LEVELS IN A PARKINSON´S DISEASE CELL MODEL. **Iván E. Alfaro[1]**, Luz Delgado[1], Dania Valdovinos[1], Andrew Protter[1,2], Sebastián Bernales[1,2]. [1]Fundación Ciencias Para la Vida, Santiago, Chile. [2]Medivation Inc., CA, USA. alfobioq@gmail.com

(15) REDUCTION OF Aβ-OLIGOMERS IN PLASMA OF ALZHEIMER TRANSGENIC MICE TREATED WITH A c-Abl INHIBITOR. **Estrada LE[1]**, Chamorro D[1], Inestrosa NC[2], and Alvarez AR[1]. [1]Laboratorio de Señalización Celular, [2]CARE, Depto. de Biología Celular y Molecular, FCB, P. Universidad Católica de Chile. lestrada.biotech@gmail.com

(16) THE cJUN-AMINO TERMINAL KINASE (JNK) REGULATES INTERNALIZATION AND RETROGRADE APOPTOTIC KILLING OF THE p75 NEUROTROPHIN RECEPTOR (p75) IN SYMPATHETIC NEURONS (SCGS). Escudero CA[1], **Cabeza C[1]**, Galleguillos C, Uzma S[2], Maloney M[3], Carter BD[2], Mobley W[3,4], Bronfman FC[1]. 1Millennium Nucleus in Regenerative Biology (MINREB), Facultad de Ciencias Biológicas. Pontificia Universidad Catolica de Chile, Chile. 2Department of Biochemistry, Vanderbilt University, USA. 3Department of Neurology, Stanford University, USA. 4Department of Neurosciences, UCSD, USA. caescude@gmail.com

(17) CHARACTERIZATION CDNF EXPRESSION BY LENTIVIRAL VECTORS AS A VEHICLE FOR THE POTENTIAL TREATMENT OF PARKINSON'S DISEASE. **Sheyla Guzmán**, Jorge Escobar, Pedro Zamorano. Laboratorio de Neurobiología, Facultad de Ciencias de la Salud, Universidad de Antofagasta. zamorano@uantof.cl

(18) cAMP-EPAC SIGNALING IS INVOLVED IN THE DEVELOPMENT OF THE AXON. **Pablo Muñoz-Llancao[1]**, Daniel R. Henriquez[1], Martina Schmidt[2] and Christian Gonzalez-Billault[1]. (1)Laboratory of Cell and Neuronal Dynamics, Department of Biology, Faculty of Sciences and Institute for Cell Dynamics and Biotechnology (ICDB), Universidad de Chile, Santiago, Chile. (2)Department of Molecular Pharmacology, University of Groningen, The Netherlands.

(19) CHARACTERIZATION OF AN *in vitro* MODEL OF MOTOR NEURON DISEASE. Cristina Pinto[1], Nelson Osses[2], **Juan Pablo Henríquez[1]**. [1]Department of Cell Biology, University of Concepcion, and [2]Institute of Chemistry, Catholic University of Valparaiso, Chile. jhenriquez@udec.cl

(20) WNT-5A LIGAND INDUCES FISSION-FUSION OF MITOCHONDRIA AND PROTECTS HIPPOCAMPAL NEURONS FROM Ab OLIGOMER NEUROTOXICITY. Juan A. Godoy**, Macarena S. Arrázola** and Nibaldo C. Inestrosa. Centro de Envejecimiento y Regeneración (CARE). Departamento de Biología Celular y Molecular. Facultad de Ciencias Biológicas. Pontificia Universidad Católica de Chile, Santiago, Chile. msarrazo@puc.cl

(21) TREHALOSE TREATMENTS ALLEVIATE AND ATTENUATE ALS PROGRESSION POSSIBLY THROUGH AUTOPHAGY ACTIVATION. **Castillo K.[1,2,3]**, Lopez E [1,2,3] , Nassif M [1,2,3], Matus S [1,2,3] and Hetz C. [1,2,3]. [1]Biomedical Neuroscience Institute, Faculty of Medicine, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. [3]Neurounion Biomedical Foundation, Santiago, Chile. karencitakc@gmail.com

(22) ROLE OF ApoER2 IN REGENERATION OF THE PERIPHERAL NERVOUS SYSTEM (PNS) AFTER NERVE DAMAGE. **Joaquín Cerda**, María Luisa Benítez, Felipe A. Court[1] and María Paz Marzolo[2]. Millennium Nucleus in Regenerative Biology (MINREB), P. Universidad Católica de Chile, Santiago, Chile. [1]fcourt@bio.puc.cl, [2]mmarzolo@bio.puc.cl

(23) MOTOR IMPAIRMENT OF A BRAIN SPECIFIC ERp57 KNOCKOUT MOUSE MODEL. **Andreu C**.[1,2],Valenzuela V.[1,2],Woehlbier U.[1,2],Irrazábal T.[1,2] and Hetz C[1,2,3]. [1]Biomedical Neuroscience Institute, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, [3]Neurounion Biomedical Foundation, Santiago, Chile. chetz@med.uhile.cl

(24) BIPHASIC EFFECTS OF COPPER ON NEUROTRANSMISSION IN RAT HIPPOCAMPAL NEURONS. **Christian Peters**, Braulio Muñoz, Fernando Sepúlveda, Juan Urrutia, Mauricio Quiroz, Sandra Luza, Giancarlo V. De Ferrari, Luis G. Aguayo, Carlos Opazo. Laboratorio de Neurobiometales, Departamento de Fisiología, Facultad de Ciencias Biológicas, Universidad de Concepción, Chile. cpeters@udec.cl

(25) αVβ3 INTEGRIN EXPRESSION IN RAT BRAIN UPON INJURY. **Soto, C.**[1,2], Rojas-Mancilla, E.[1,2], Alvarez, A.[1,2], Hermosilla, T.[1], Díaz, E. [2], Herrera-Marschitz, M.[2] and Leyton, L.[1,2]. [1]Centro de Estudios Moleculares de la Célula (CEMC), [2]Biomedical Neuroscience Institute, ICBM-Facultad de Medicina, U de Chile.

(26) GLIAL CELL TYPE DEFINES MORPHOLOGICAL AND TEMPORAL CHARACTERISTICS OF AXONAL DEGENERATION. **Alejandra Catenaccio**, Jaime Alvarez and Felipe A. Court. Millennium Nucleus in Regenerative Biology (MINREB), Catholic University of Chile and Neurounion Biomedical Foundation. fcourt@bio.puc.cl, alecatenaccio@gmail.com

(27) GLIAL SUBVENTRICULAR TUMORS INDUCED IN THE NEUROGENIC NICHE INCREASE GENERATION OF NEUROBLASTS. **Nery Jara**, Federico Rodríguez and Francisco Nualart. Neurobiology and Stem Cells Laboratory, Department of Cell Biology, University of Concepción. neryalejara@udec.cl

(28) NH_4^+ AS A POSSIBLE SIGNAL LINKING NEUROTRANSMITTER RECYCLING WITH FAST GLYCOLYTIC STIMULATION IN ASTROCYTES. **[1,2]Rodrigo Lerchundi** and [1]L. Felipe Barros. [1]Centro de Estudios Científicos (CECs), Valdivia, Chile & [2]Universidad Austral de Chile, Valdivia, Chile. rlerchundi@cecs.cl

(29) SUBCELLULAR LOCALIZATION ANALYSIS OF XTRIC-8A AND ITS PARTICIPATION IN CELL POLARITY IN *X. tropicalis* EMBRYOS. **Cecilia Arriagada[1],** Maria V. Hinrich[1] and Marcela Torrejón [1]. [1]Laboratory of Genetic and Molecular Biology, Department of Biochemistry and Molecular Biology, University of Concepción, Chile**.** ceciarriagada@udec.cl

(30) HETEROCHRONY AND HETEROTOPY IN THE EVOLUTION OF BRAIN ASYMMETRY DEVELOPMENT BETWEEN ZEBRAFISH AND MEDAKA. Iskra Signore[1,2], **Geraldine Vásquez**[1,2], Javiera Ríos[1,2], Alexander Jares[3], Alicia Colombo[1], and Miguel Concha[1,2]. [1]Laboratory of Experimental Ontogeny - LEO, ICBM, Faculty of Medicine, University of Chile; [2]Biomedical Neuroscience Institute - BNI, Santiago, Chile; [3] Yale University, USA. iskra.signore@gmail.com; mconcha@med.uchile.cl

(31) ETHANOL EXPOSURE DISRUPTS CELL MIGRATION AND PRIMARY CILIA STRUCTURE IN DEVELOPING EMBRYOS. **Katica Boric[1],** [2]Eduardo Couve[2], Patricio Orio[1] & Kathleen Whitlock[1,2]. [1]CINV, Universidad de Valparaíso, Chile. [2]Universidad de Valparaíso. kboric@gmail.com

(32) GENERATION A MODEL OF OXIDATIVE STRESS INDUCTION USING ZEBRAFISH AND EVALUATION OF ANTI-OXIDANT, PROTECTIVE AND REGENERATIVE ACTIVITY OF RESVERATROL. **Marjorie Alvarez[1]**, Tomas Egaña[2], Miguel L. Allende[1]. 1.FONDAP Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile. 2.Department of Plastic Surgery and

Hand Surgery, Faculty of Medicine, Technical University of Munich. Munich, Germany. marjorie.alvarez@ug.uchile.cl

(33) SYNDECAN-4 AND FIBRONECTIN, FOCAL ADHESION COMPONENTS, REGULATE WNT/b-CATENIN SIGNALING. Pablo Astudillo, Héctor Carrasco and Juan Larraín. Center for Aging and Regeneration (CARE), P. Universidad Católica de Chile. prastudi@uc.cl

(34) AVERSIVE MEMORY IN *Drosophila melanogaster* LARVA CAN BE MODIFIED BY LIGHT ACTIVATION OF CHANNELRHODOPSIN-2. Paula Burgos, Karina Palma & Jorge M Campusano. Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad de Chile. paulaburgos.s@gmail.com, jcampusano@bio.puc.cl (Sponsor: E. Aliaga).

(35) INFLAMMATION RESOLUTION BY RETROGRADE MIGRATION OF NEUTROPHILS AFTER LOCALIZED TISSUE DAMAGE IN ZEBRAFISH LARVAE. Oscar Peña, **Nicole Reynaert,** Miguel Allende. FONDAP Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile. nicole.reynaert@googlemail.com; allende@uchile.cl

(36) PHENOTYPIC CHANGES INDUCED BY LOW-OF- FUNCTION OF PATCHED-RELATED DURING EMBRYOGENESIS OF *Drosophila melanogaster*. Carmen Bolatto y Verónica Cambiazo. Laboratorio de Bioinformática y Expresión Génica INTA-Universidad de Chile. Depto. de Histología y Embriología, Facultad de Medicina- UdelaR, Uruguay. cbolatto@fmed.edu.uy, vcambiaz@inta.cl

(37) HYPOXIA-INDUCIBLE FACTOR-1 ALPHA IS NECESSARY FOR THE POSTERIOR LATERAL LINE CELL-PROLIFERATION ON ZEBRAFISH. Barros M, Reyes A.E. Facultad de Ciencias Biológicas. Universidad Andrés Bello. Avda. República 217, piso 4. Santiago, Chile. arielreyes@unab.cl

(38) CHARACTERIZATION OF PELADO DURING ZEBRAFISH DEVELOPMENT. Solís C[1]., Feijóo CG[1] and Glavic A[2]. (1) Facultad de Ciencias Biológicas, Universidad Andrés Bello, Chile. (2) Facultad de Ciencias, Universidad de Chile, Chile.

(39) CALCIUM AND cAMP SIGNALING IN THE PROTHORACIC GLAND AND ITS ROLE IN THE CIRCADIAN TIMING OF *Drosophila* ECLOSION. Angelina Palacios-Muñoz and John Ewer. Laboratory of Neurogenetics and Development, Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile. angelina.palacios@cinv.cl

(40) TESTOSTERONE INDUCES HYPERTROPHY IN SKELETAL MUSCLE CELLS BY ACTIVATING BOTH mTOR/p70S6K PATHWAY AND THE CLASSIC ANDROGEN RECEPTOR. Basualto-Alarcón C., Jorquera G., Estrada M. and Jaimovich E. Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile, Santiago, Chile. carlabasualto@gmail.com

(41) CTGF INDUCES INFLAMMATION IN THE SKELETAL MUSCLE. Cabrera D., Morales MG., Cabello-Verrugio C. and Brandan E. Laboratory of Cell Differentiation and Pathology, CARE. Department of Cell and Molecular Biology, Catholic University of Chile. dacabrer@puc.cl

(42) ISOLATION OF RAT SKELETAL MYOFIBERS AND DENERVATION, BUT NOT IMMOBILIZATION OF A FAST SKELETAL MUSCLE PROMOTES AN INCREASE IN CONNEXINS LEVELS. L.A. Cea, M.A. Riquelme, A. Vargas, J.C. Sáez. Departamento de Fisiología, Pontificia Universidad Católica de Chile, Luisceapisani@gmail.com

(43) MOLECULAR TOOLS TO CHARACTERIZE MULTIPROTEIN COMPLEXES CONTAINING $P2Y_2$ RECEPTORS AND PANNEXIN-1 CHANNELS. Buvinic, S[1,2] and Jaimovich, E[2]. [1]Facultad de Odontología; [2]Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina. Universidad de Chile, Santiago, Chile. sbuvinic@u.uchile.cl

(44) EARLY UPTAKE OF VITAMIN C UP-REGULATES ITS SVCT2 TRANSPORTER AND STIMULATES MYOGENESIS. Jorge Ojeda, Daniel Sandoval, Marcela Low, Juan Pablo Henriquez**.**

Department of Cell Biology, Faculty of Biological Sciences, University of Concepcion, Concepcion, Chile. jhenriquez@udec.cl

(45) ATP REDUCES THE UP-REGULATION OF CONNEXINS 39, 43, AND 45 IN CULTURED ADULT SKELETAL MYOFIBERS. **Cisterna B.A.,** Cea L.A., Riquelme M.A., and Sáez J.C. Departamento de Fisiología, P. Universidad Católica de Chile. bcisterna@uc.cl

(46) UNVEILING A MULTIPROTEIN COMPLEX INVOLVED IN EXCITATION-TRANSCRIPTION COUPLING IN NORMAL AND DYSTROPHIC SKELETAL MUSCLE. **Almarza, G.**[1], Valladares D.[1], Jaimovich E.[1] and Buvinic, S[1,2]. [1]Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, [2]Facultad de Odontología. Universidad de Chile, Santiago, Chile. gonzalo.almarza@gmail.com

(47) AMP-ACTIVATED PROTEIN KINASE (AMPK) PATHWAY IS INVOLVED IN TESTOSTERONE-INDUCED CARDIOMYOCYTE HYPERTROPHY. **Katherine Montoya,** Carlos Wilson, Rodrigo Maass and Manuel Estrada. ICBM, Facultad de Medicina, Universidad de Chile. iestrada@med.uchile.cl

(48) VASOPRESSIN-INDUCED PROLIFERATION OF VASCULAR SMOOTH MUSCLE CELLS INVOLVED THE EGFR TRANSACTIVATION AND ACTIVATION OF ERK SIGNALING PATHWAY. **Marianne Brenet R.** Carolina Villanueva M., Pamela Carmona R., Carlos B. González. Instituto de Fisiología. Facultad de Medicina. Universidad Austral de Chile. Marianne.brenet@alumnos.uach.cl

(49) ATP-DEPENDENT GLUCOSE UPTAKE IN SKELETAL MUSCLE CELLS. [*†]**Osorio-Fuentealba C**., [†]Contreras-Ferrat AE., [†]Altamirano. F., [†]Espinosa A. and [†]Jaimovich E. [*]Facultad de Medicina, Universidad Finis Terrae, [†]Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile, Santiago.

(50) CROSS TALK BETWEEN ApoER2 AND THE NEUROTROPHINS RECEPTORS: EFFECT OF NEUROTROPHINS AND REELIN ON PROTEOLYTIC PROCESSING OF ApoER2. **Jorge Larios Y.**, Francisca Bronfman C., María Paz Marzolo C. Millennium Nucleus in Regenerative Biology (MINREB), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. jalarios@uc.cl, fbronfman@bio.puc.cl, mmarzolo@bio.puc.cl

(51) COX-2 EXPRESSION IS REGULATED BY CK2 THROUGH THE WNT/□-CATENIN PATHWAY IN HUMAN EMBRYONIC CELLS. **Pablo Cabello**[1], Roger Yefi[1], Ignacio Niechi[1], Eduardo Silva[1], Diego A. Rodriguez[2], Daniela P. Ponce[1], Katherine Marcelain[2], Ricardo Armisen[2], Andrew F.G. Quest[2] & Julio C. Tapia[1,2]. [1]Cell Transformation Laboratory, [2]Institute of Biomedical Sciences (ICBM), Faculty of Medicine, University of Chile. jtapia@med.uchile.cl

(52) CO-INCUBATION WITH TOLL LIKE RECEPTORS ACTIVATORS, LPS AND DNA-CPG, INDUCED A SYNERGISTIC INCREASE OF CILIARY BEAT FREQUENCY IN RESPIRATORY CILIATED CELLS. **Daniela Carreño**[1], Claudia González[2], Carolina Oses[1], María Paz Hernández[1], Carmen Llados[1] and Manuel Villalón[1]. [1]Faculty of Biological Sciences; [2]Hospital Clínico. Pontificia Universidad Católica de Chile. dvcarren@uc.cl

(53) FUNCTIONAL CHARACTERIZATION OF CARGO-BINDING SITES ON MU-SUBUNITS OF ADAPTOR PROTEIN COMPLEXES. **Esteban Corales**[1]**,** Yimo Lin[1], Juan Bonifacino[2], James Hurley[3], Patricia Burgos[1], and Gonzalo Mardones[1]. [1]Instituto de Fisiología, Facultad de Medicina, Universidad Austral de Chile, Valdivia, Chile, and [2]Cell Biology and Metabolism Program, NICHD, and [3]Laboratory of Molecular Biology, NIDDK, NIH, Bethesda, MD, USA. gamardon@gmail.com

(54) INHIBITION OF PHOSPHATIDIC ACID HYDROLISIS CHANGES THE ENDOCYTIC TRAFFICKING AND SIGNALING OF ONCOGENIC EGFRvIII. **Apud M.,** Shaughnessy R.[1,2], Otero C. [1,2], Metz C, Soza A.[1,2], González A.Departamento de Inmunología Clínica y Reumatología, Fac.Medicina, Centro de Envejecimiento y Regeneración (CARE), Fac.Ciencias Biológicas, Pontificia Universidad Católica de Chile. apud.mari@gmail.com

(55) KININ B2 RECEPTOR STIMULATION AMELIORATES EPITHELIAL MESENCHYMAL TRANSITION INDUCED BY ALBUMIN IN RENAL EPITELIAL CELLS. **Cárdenas A,** Campos J, Ehrenfeld P, Ardiles L, Figueroa CD. Laboratorio de Nefrología e Instituto de Anatomía, Histología y Patología, Universidad Austral de Chile. arelicardenas0@gmail.com

(56) NSPA AND NOT THE RIBOSOMAL P0 PROTEIN IS THE CELL SURFACE TARGET OF ANTI-P AUTOANTIBODIES ASSOCIATED WITH LUPUS PSYCHOSIS. **Espinoza S.**[1,2], Segovia F.[1,2], Bravo-Zehnder[1,2] M., Massardo L.[1], González A.[1,2]. Departamento de Inmunología Clínica y Reumatología, Facultad Medicina[1], Centro de Envejecimiento y Regeneración (CARE), Facultad Ciencias Biológicas[2], Pontificia Universidad Católica de Chile. csespino@gmail.com

(57) LEPTIN INCREASES CILIARY ACTIVITY AND AFFECT THE RESPONSE TO CHEMICAL SIGNALS IN THE RESPIRATORY EPITHELIUM. **Maria Paz Hernández**, Carolina Oses, Daniela Carreño, Carmen Llados, Manuel Villalón. Department of Physiology, Faculty of Biological Sciences. Pontificia Universidad Católica de Chile, Santiago, Chile. mpherna2@uc.cl

(58) CK2 UP-REGULATES COX-2 EXPRESSION AND THEREBY INCREASES VIABILITY AND INVASIVENESS OF COLON CANCER CELLS. **Roger Yefi[1]**, Ignacio Niechi[1], Eduardo Silva[1], Pablo Cabello[1], Diego Rodriguez[2], Daniela P. Ponce[1], Katherine Marcelain[2], Ricardo Armisen[2], Andrew F.G. Quest[2] & Julio C. Tapia[1,2]. [1]Cell Transformation Laboratory, [2]Institute of Biomedical Sciences (ICBM), Faculty of Medicine, University of Chile. jtapia@med.uchile.cl

(59) THE ACTIVATION OF KEY SIGNALING PATHWAYS IN BREAST CANCER CELLS INVOLVES TRANSACTIVATION OF THE EGFR BY THE KININ B1 RECEPTOR. **Andrade Y,** Ehrenfeld P, Plasencia M, Cardenas A, Matus CE, Pavicic F, Figueroa CD**.** Institute of Anatomy, Histology and Pathology. Universidad Austral de Chile. ingridehrenfeld@uach.cl

(60) IL-10 DECREASES MICA CELL SURFACE EXPRESSION IN GASTRIC ADENOCARCINOMA CELL LINES. **Garrido-Tapia M**, Hernández CJ, Ribeiro CH, Kramm K, Molina MC. Laboratorio de Evasión Inmune. Programa Disciplinario de Inmunología (ICBM). Facultad de Medicina, Universidad de Chile. macagarrido@gmail.com

(61) *REPRIMO*, A CANDIDATE BIOMARKER FOR EARLY DIAGNOSIS AND RESPONSE TO TREATMENT OF HUMAN GASTRIC CANCER. **Maturana MJ.**[1], Torres V.[1], Olivares W.[1], Cerda E.[1], Padilla O.[1], Garrido M.[1], Aguayo F.[3], Calvo A.[2], Ferreccio C.[1], Corvalán AH.[1]. [1]Hematology-Oncology Pontificia Universidad Católica de Chile, [2]CRS-San Rafael, SSMSO, [3]Virology Department, Universidad Chile. mariaj.maturana@gmail.cl (Sponsor: G. Owen)

(62) LACTATE EFFECT ON MITOCHONDRIA AND GLUCOSE UPTAKE IN HUMAN CANCER CELLS. **Viviana Ahumada[1,2]**, María Cabrera[1], Claudio Acuña-Castillo[1], Dante Miranda[2], Margarita Montoya[1]. 1.Department of Biology. Faculty of Chemistry and Biology. University of Santiago of Chile. 2.Faculty of Chemical and Pharmaceutical Sciences. University of Chile. margarita.montoya@usach.cl

(63) DEVELOPING AN RNAi-BASED GENETIC ADJUVANT SILENCING STAT3 THAT COUNTERACTS TUMORASSOCIATED TOLERANCE. **Nicole Rojas-Colonelli**, Jonathan Roco, Andrés Herrada, Octavio Aravena, Manuel Varas, Alvaro Lladser. Laboratory of Gene Immunotherapy, Fundación Ciencia Para la Vida. alvaro.lladser@bionova.cl

(64) AN ASSAY TO PERSONALIZE CHEMOTHERAPY IN OVARIAN CANCER PATIENTS. **M.L. Bravo[1,5]**, P. González[1,5], S. Kato[2,5], M. Garrido[2], S. González[3], J. Pizarro[3], M.I. Barriga[3], H. Leon[4], E. Bustamante[4], M.A Cuello[2,5], G. I. Owen[1,5]. [1]Facultad de Ciencias Biológicas, [2]Facultad de Medicina, Pontificia Universidad Católica de Chile, [3]Hospital Sotero del Rio, [3]Fundacion Arturo López Pérez [5]Biomedical Research Consortium of Chile (BRMC).

(65) SALMONID SELENOTRANSCRIPTOME: *IN SILICO* AND *IN VIVO* CHARACTERIZATION. **Francisco Altimiras,** Rodrigo Pulgar y Verónica Cambiazo. Laboratorio de Bioinformática y Expresión Génica, INTA, Universidad de Chile and Center for Genome Regulation (CRG). fjaltimiras@gmail.com

(66) PROTEOMIC ANALYSIS OF PROTOSCOLEX PROTEINS FROM *Echinococcus granulosus*. **María Pía García**[a], Christian Hidalgo[a], Henrique Bunselmeyer Ferreira[b], Ulf Hellman[c], Norbel Galanti[d] and Rodolfo Paredes[a,*]. [a]Escuela de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andrés Bello. [b]Centro de Biotecnologia, UFRGS, Brazil. [c]Ludwig Institute for Cancer Research Ltd., Sweden. [d]Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. rparedes@unab.cl

(67) MITOCHONDRIAL DYNAMICS IN ERYTHROPOIETIC CELLS IS MODULATED BY COPPER. **Rodrigo Bustos,** Yancing Rossel, Alvaro Elorza. Universidad Andrés Bello**.** aelorza@unab.cl

(68) HANTAVIRUS LIKE-PARTICLES: A TOOL FOR DISEASE PREVENTION AND VIRUS-CELL ENTRY STUDIES. **[1,2]Acuña, R.,** [1]Cifuentes, N., [1]Bulling, M. and [1]Tischler, N.D. [1]Fundación Ciencia para la Vida and [2]Universidad Andrés Bello. rodrigo.acuna.bq@gmail.com

(69) EFFECT OF EGG YOLK IgY ANTIBODIES AGAINST *Piscirickettsia salmonis* INFECTION IN ATLANTIC SALMON SHK-1 CELLS. **Oliver C[1].,** Valenzuela K[1]., Silva H[1]., Oyarzún F[1]., Pontigo JP[1]., Álvarez C[1]., Olavarría VH[1]., Amthauer R[1]., Romero A[2] and Yáñez AJ[1]. [1]Instituto de Bioquímica y Microbiología, [2]Instituto de Patología Animal. Universidad Austral de Chile, Valdivia, Chile. cristianoliver7@gmail.com

(70) MODEL SYSTEMS FOR ACCURACY TESTING OF SKELETON METHODS FOR BIOLOGICAL STRUCTURES. **Alcayaga L**[13], Santibáñez F[1], Ramírez O[1], Palma K[12], Jara J[13], Concha M[1], Hitschfeld N[3] and Härtel S[1]. [1]SCIAN-Lab, [2]LEO, BNI, ICBM, Faculty of Medicine, [3]DCC, FCFM, U-Chile. lalcayag@dcc.uchile.cl

(71) GENERATION OF *Escherichia coli* K12 Xth NULL MUTANT. **José Delgadillo**, Sofia Sepúlveda, Ulrike Kemmerling, Norbel Galanti, Gonzalo Cabrera. Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile. gcabrera@med.uchile.cl

(72) SHORT TOLEROGENIC DENDRITIC CELLS PROTOCOL REPRESSES T CELLS PROLIFERATION AND EFFECTOR T HELPER PROFILES INDUCTION. **Falcón-Beas C[1,2]**, Tempio F[1,2], Pesce B[1,2], Aguillón J[1,2], Pereda C[1,2], Saffie C[1,2], Salazar-Onfray F[1,2], López M. N[1-3]. [1]Millennium Nucleus on Immunology and Immunotherapy; [2]Disciplinary Program of Immunology, Institute of Biomedical Sciences, Faculty of Medicine, University of Chile; [3]Research Support Office, University of Chile Clinical Hospital. cfalcon@med.uchile.cl

(73) ANTIBODIES GENERATED AGAINST *Trypanosoma cruzi* CALRETICULIN S-DOMAIN DETECTS PUTATIVE MURINE CALRETICULIN. **[1]González, A.,** [1]Valck, C., [1]Maldonado, I., [1]Ramirez, G., [2]Galanti, N., [1]Ferreira, A. [1]Immunology Disciplinary Program, [2]Program of Cellular and Molecular Biology, Faculty of Medicine, University of Chile, Chile. aferreir@med.uchile.cl

(74) TUMOR NECROSIS FACTOR DIFFERENTIALLY MODULATES HUMAN Th1 AND Th17 CELLS. **B. Pesce,** J.C. Aguillón, M. Cuchacovich, D. Catalán. Immune Regulation and Tolerance Research Group, Programa Disciplinario de Inmunología, ICBM, Facultad de Medicina, Universidad de Chile. www.irtgroup.cl**,** bpesce@gmail.com

(75) STUDY OF THE FUNCTIONAL PLASTICITY IN TUMOR-SPECIFIC MEMORY T CELLS STIMULATED WITH DIFFERENT TYPES OF DENDRITIC CELLS. **Mora Gabriela**, Tittarelli A., Ramirez M., Pereda C., Ortiz C., Tempio F., Falcon C., López, M.Salazar-Onfray F. Tumor Immunology Laboratory, University of Chile. gabribau@gmail.com

(76) MODULATION OF SIGNALING PATHWAYS BY DOPAMINE RECEPTORS D3 AND D5 IN CD4+ T-CELLS. **Dafne Franz[1]**, Hugo González[1], Carolina Prado[1] and Rodrigo Pacheco[1,2]. [1]Fundación Ciencia para la Vida and [2]Universidad San Sebastián. Santiago, Chile. dafne.franz@gmail.com

(77) INVOLVEMENT OF P2X7R IN ANTIGEN CROSS-PRIMING, *in vivo*. **Ximena López**, Bélgica Villegas, Yohana Labra, Javier Mena, Víctor Lazo, Ronny Hernández, Alejandro Torres,

Alejandro Escobar, Margarita Montoya, Mónica Imarai, Claudio Acuña-Castillo. Universidad de Santiago de Chile. claudio.acuna@usach.cl

(78) DEVELOPMENT OF AN ANTIBODY AGAINST CD28 TO IDENTIFY T LYMPHOCYTES OF RAINBOW TROUT *(Oncorhynchus mykiss)*. **Soto-Aguilera S**, Valenzuela B, Maisey K, and Imarai M. Laboratorio de Inmunología, Centro de Biotecnología Acuícola (CBA), Facultad de Química y Biología, Universidad de Santiago de Chile. sarita.soto@usach.cl

(79) *Trypanosoma cruzi* CALRETICULIN INHIBITS THE CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN *Gallus gallus*. **Paula Abello,** Carolina Valck, Ismael Maldonado, Hector Hidalgo, Arturo Ferreira. Disciplinary Immunology Program, ICBM. University of Chile. aferreir@med.uchile.cl

(80) ASSESSMENT OF THE VIABILITY OF OLIGODENDROCYTES FROM THE PROGENY GESTATED IN MOTHERS WITH THYROID HORMONE DEFICIENCY IN RESPONSE TO INFLAMMATORY MOLECULES. **Eduardo Albornoz**[1,3], Claudia Cortes[1,3], Pablo Cisternas[1,3], Pablo Gonzalez[1,3], Carlos Pizarro[1,3], Leandro Carreño[2,3], Susan Bueno[2,3], Eliseo Eugenin[4], Joan Berman[4], Alexis Kalergis[2,3] and Claudia Riedel[1,3]. [1]Facultad de Ciencias Biológicas, Universidad Andrés Bello. [2]Departamento de Genética Molecular y Microbiología, Facultad de Ciencias Biológicas, PUC. [3]Instituto Milenio de Inmunología e Inmunoterapia. [4]Albert Einstein College of Medicine of New York. edua.albornoz@uandresbello.edu

(81) SOLUBLE TOLL LIKE RECEPTOR 2 (sTLR2) IS PRODUCED BY METALLOPROTEASE ECTODOMAIN TLR2 SHEDDING. **Langjahr, P.E**.; Rubio, E.; Díaz-Jiménez, D.; Hermoso, M.A. Laboratorio de Inmunidad Innata, Programa D. de Inmunología, ICBM, Facultad de Medicina, Universidad de Chile. plangjhar@med.uchile.cl

(82) CHARACTERIZING THE DNA-SENSING SIGNALING PATHWAYS OF THE INNATE IMMUNITY THAT MEDIATE THE INDUCTION OF ANTITUMOR T CELL IMMUNITY ELICITED BY DNA VACCINES: THE ROLE OF NF-κB. **Jonathan Roco**[1], Maarten Ligtenberg[2], Andrés Herrada[1], Rolf Kiessling[2], Alvaro Lladser[1]. [1]Laboratory of Gene Immunotherapy, Fundación Ciencia para la Vida, Santiago, Chile. [2]Immune and Gene Therapy Unit, CancerCentrum Karolinska, Karolinska Institutet, Stockholm, Sweden. alvaro.lladser@bionova.cl (Sponsor: P. Valenzuela)

(83) ALLOGENEIC PLGA PHAGOSOMES DECREASE THE ALLOIMMUNE RESPONSE *IN VIVO*. **Yessia Hidalgo**[1], Paulina Ruiz[1], Paula Maldonado[1], Cinthia Silva[1], Mario Rosemblatt[1,2], María Rosa Bono[1]. Laboratorio de Inmunología, Facultad de Ciencias, Universidad de Chile[1]. Fundación Ciencia para la Vida[2]. yhidalgo@ug.uchile.cl

(84) LOW PLASMA LEVELS OF 2-METHOXYESTRADIOL (2-ME) IN EARLY PREGNANCY OF PATIENTS THAT WILL DEVELOP PREECLAMPSIA (PE). **Pérez-Sepúlveda A**, Torres MJ, Valenzuela FJ, Larraín R, Galaz J, Valenzuela I, Soto MJ, Figueroa-Diesel H, Illanes S. Departamento de Obstetricia & Ginecología y Laboratorio de Biología de la Reproducción. Facultad de Medicina, Universidad de los Andes, Santiago. sillanes@uandes.cl (Sponsor: U. Wyneken).

(85) REVISITING GLUCOSE TRANSPORTER 1 AND 3 THROUGH LIVE CELL FLUORESCENT MICROSCOPY. **Aníbal I. Acuña**, Ilona I. Concha, Maite A. Castro. Instituto de Bioquímica y Microbiología, UACh. macastro@uach.cl

WEDNESDAY, NOVEMBER 2nd, 2011

08:00 **Poster Mounting Session II: N° 86 to N° 170**
Convention Center Foyer

09:00 – 10:30 **SYMPOSIUM INSTITUTE FOR CELL DYNAMICS AND BIOTECHNOLOGY (ICDB) UNIVERSIDAD DE CHILE - COOPERACION INTERNACIONAL FONDECYT 1095089**
Calbuco Room - Chair: Christian Gonzalez-Billaut

"CELLULAR AND MOLECULAR FUNCTIONS OF CYTOSKELETON IN THE NERVOUS SYSTEM"

ACUTE EFFECTS OF ACTIN ON THE POSTSYNAPTIC DENSITY. **Thomas A. Blanpied**, School of Medicine, University of Maryland.

Thy-1/INTEGRIN-MEDIATED BIDIRECTIONAL SIGNALING BETWEEN NEURONS AND ASTROCYTES. **Lisette Leyton.** Laboratorio de Comunicaciones Celulares, Centro de Estudios Moleculares de la Célula (CEMC), Biomedical Neuroscience Institute (BNI), ICBM, Facultad de Medicina, Universidad de Chile.

MICROTUBULE ASSOCIATED PROTEIN (MAP1B) IN INVOLVED IN DENDRITIC SPINE DEVELOPMENT AND NEUROTRANSMISSION. **Christian González-Billault,** Laboratory of Neuronal and Cell Dynamics, Department of Biology, Universidad de Chile and Institute for Cell Dynamics and Biotechnology (ICDB) Santiago, Chile.

SYMPOSIUM
"MEMBRANE TRAFFICKING AT SYNAPSES: FROM NEURONAL TRANSMISSION TO IMMUNITY (I)"
Tronador Room - Chair: Ana Maria Lennon

THE VESICULAR SNARE SYNAPTOBREVIN IS REQUIRED FOR SEMAPHORIN 3A AXONAL REPULSION. Kathleen ZYLBERSZTEJN[1,2], Maja PETKOVIC[1,2], Andrea BURGO[1,2], Marie DECK[3], Sonia GAREL[3], Séverine MARCOS[4], Evelyne BLOCH-GALLEGO[4], Fatiha NOTHIAS[5], Guido SERINI[6], Dominique BAGNARD[7], Thomas BINZ[8] and **Thierry GALLI[1,2].** [1]University Paris Diderot, Sorbonne Paris Cité, Jacques Monod Institute, CNRS UMR7592, Program in Development & Neurobiology, Paris, 75013 France. [2]INSERM ERL U950, 'Membrane Traffic in Neuronal & Epithelial Morphogenesis', Paris, 75013 France. [3]Ecole Normale Supérieure, IBENS, INSERM U1024, CNRS UMR8197, Paris, 75005 France. [4]Cochin Institute, University Paris Descartes, CNRS UMR8104, Department in Genetic and Development, INSERM U567, Paris, 75005 France. [5]'Axon Regeneration and Growth', PMSNC, INSERM U952, CNRS UMR 7224, University Pierre and Marie Curie, Paris, 75005 France. [6]University of Torino School of Medicine, Candiolo, Torino, 10100 Italy. [7]INSERM U682, Strasbourg, 67000 France. [8]Institute of Biochemistry, Medizinische Hochschule Hannover, Hannover, 30001 Germany.

Cdc42 CONTROLS THE BALANCE BETWEEN KISS-AND-RUN AND FULL FUSION OF SECRETORY VESICLES BY REGULATING MEMBRANE TENSION. Marine Bretou[1,2], Ouardane Jouannot[1], Claire Desnos[1], Paolo Pierobon[2], Isabelle Fanget[1], Nathanaël Larochette[1], Pierre Gestraud[3,4,5], Marc Guillon[6], Valentina Emiliani[6], Stéphane Gasman[7], Ana-Maria Lennon-Duménil[2] and **François Darchen[1].** [1]Centre National de la Recherche Scientifique, Université Paris Descartes, Sorbonne Paris Cité, UMR8192, 45 rue des Saints-Pères, 75270 Paris cedex 06, France. [2]Inserm U932, Institut Curie, 12 rue Lhomond, 75005, Paris, France. [3]Institut Curie, Paris F-75248, France. [4]Inserm, U900, Paris F-75248, France. [5]Ecole des Mines ParisTech, Fontainebleau, F-77300 France. [6]INSERM U603, CNRS UMR 8154, Université Paris Descartes, Sorbonne Paris Cité, 45 rue des Saints-Pères, 75270 Paris cedex 06, France. [7]CNRS/UPR3212, INCI, Université Strasbourg.

POLARIZED SECRETION OF LYSOSOMES AT THE B CELL SYNAPSE COUPLES ANTIGEN EXTRACTION TO PROCESSING AND PRESENTATION. Maria-Isabel Yuseff[1,2], Anne Reversat[1,2], Danielle Lankar[1,2], Jheimmy Diaz[1,2], Isabelle Fanget[3], Paolo Pierobon[1,2], Stéphane

Gasman[4], François Darchen[3], Claire Desnos[3] and **Ana-Maria Lennon-Duménil[1,2].** [1]Institut Curie, Centre de Recherche, Paris F-75248, France. [2]INSERM Unité 932, Immunité et Cancer, Paris, France. [3]CNRS/Université Paris Descartes UMR8192, 45 rue des Saints-Pères, 75006, Paris, France. [4]CNRS/UPR3212, INCI, Université Strasbourg, France.

10:30 – 11:30 Coffee Break – Exhibitors – Poster Viewing: Session II
Convention Center Foyer

11:30 – 13:30 Oral Presentations II
Volcanes Room - Chair: Andrew Quest and Co-Chair: Nelson Osses

DEVELOPMENT OF NEW BIOINFORMATICS TOOLS FOR THE ACCURATE PREDICTION OF TRANSCRIPTION FACTOR BINDING SITES. Tomás Norambuena, Alex W. Slater and **Francisco Melo**. [1]Molecular Bioinformatics Laboratory, Millennium Institute on Immunology and Immunotherapy, Alameda 340, Santiago, Chile. [2]Departamento de Genética Molecular y Microbiología, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Alameda 340, Santiago, Chile. fmelo@bio.puc.cl

ACUTE TREATMENT WITH ANTI-NEOPLASTIC DRUGS INDUCED CAVEOLIN-1 UP-REGULATION AND INCREASED MIGRATION VIA A MEK/ERK-DEPENDENT PATHWAY IN COLON CANCER CELLS. Díaz-Valdivia, N., Leyton, L., Quest, AFG. CEMC, Facultad de Medicina, Universidad de Chile. aquest@med.uchile.cl

TMBIM3/GRINA IS A CONSERVED UNFOLDED PROTEIN RESPONSE (UPR) TARGET GENE THAT CONTROLS APOPTOSIS THROUGH THE MODULATION OF ER CALCIUM HOMEOSTASIS. Diego Rojas-Rivera,[1,2,3] Ricardo Armisén,[2] Alicia Colombo,[3] Gabriela Martínez,[1,2,3] Diego Rodríguez,[1,2,3] Rosario Rizzuto,[5] Geert Bultynck,[4] Miguel L. Concha,[3] Jimena Sierralta,[3] Andrés Stutzin,[1,2] Claudio Hetz [1,2,3]. [1]Neurounion Biomedical Foundation, Santiago, Chile, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, [3]Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, [4]Katholieke Universiteit Leuven**,** Belgium and [5]University of Padova, Italy. diegorojasrivera@gmail.com

BONE MORPHOGENETIC PROTEIN 2 INHIBITS NEURITE OUTGROWTH OF MOTOR NEURON-LIKE NSC-34 CELLS AND UP-REGULATES ITS TYPE II RECEPTOR. Francisca Benavente[1], Margarita Parada[1], Cristina Pinto[2], Juan Pablo Henríquez[2], and **Nelson Osses[1].** [1]Instituto de Química, Pontificia Universidad Católica de Valparaíso. [2]Departamento de Biología Celular, Universidad de Concepción. nelson.osses@ucv.cl

RESVERATROL INHIBITS Cdk5 ACTIVITY THROUGH REGULATION OF p35 EXPRESSION. Elias Utreras, Anita Terse, Jason Keller, Michael Iadarola and Ashok Kulkarni. Functional Genomics Section, NIDCR, NIH, USA. elias.utreras@uchile.cl

DETERMINATION OF THE ROLE OF p53-RELATED PROTEIN KINASE (PRPK) IN AXON ELONGATION. Villarroel D.[1], Henriquez D.[1], Glavic A.[2] and González-Billault C.[1]. [1]Cellular and Neuronal Dynamics Laboratory and [2]Center for Genome Regulation, Department of Biology, Faculty of Sciences, Universidad de Chile, Santiago, Chile. davidbiovilla@gmail.com

C/EBPβ-MEDIATED RECRUITMENT OF SWI/SNF IS A MECHANISM FOR RIC-8B GENE REPRESSION DURING OSTEOBLAST DIFFERENTIATION. **Rodrigo Aguilar**, Aníbal Arce, Berta Henríquez, Hugo Sepúlveda, Martín Montecino. Center for Biomedical Research and FONDAP Center for Genome Regulation, Universidad Andres Bello, Santiago, Chile. raguilarmaureira@hotmail.com

WNT/b-CATENIN SIGNALING ENHANCES RUNX1 TRANSCRIPTIONAL ACTIVITY IN HEMATOPOIETIC CELLS. Medina M, Pérez E, Gajardo I, Ugarte GD, De Ferrari GV. Center for Biomedical Research, Faculty of Biological Sciences and Faculty of Medicine, Andres Bello University, Chile. gdeferrari@unab.cl

13:30 – 15:30 Lunch

15:30 – 16:30 PLENARY LECTURE FUNDACION CIENCIA PARA LA VIDA AND MIFAB
Volcanes Room - Chair: Patricia Burgos

NAVIGATING THE CELLULAR LANDSCAPE WITH NEW OPTICAL PROBES, IMAGING STRATEGIES AND TECHNICAL INNOVATIONS. **Jennifer Lippincott-Schwartz**. Eugene Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892.

16:30 – 17:30 Coffee Break – Exhibitors – Poster Viewing: Session II
Convention Center Foyer

17:30 – 19:30 Oral Presentations III
Volcanes Room - Chair: Monica Imarai and Co-Chair: Alvaro Elorza

TOXIC FACTORS RELEASED BY ALS-LINKED MUTATED SOD1 ASTROCYTES INDUCE MOTONEURON PATHOLOGY AND DEATH BY TARGETING SODIUM CHANNELS. **Elsa Fritz**[1,4], Fabiola Rojas[1,4], Constanza Riquelme[4], Camila Segura[4], Rodolfo Madrid[2], Felipe Court[3], and Brigitte van Zundert[4]. [1]Universidad de Concepción; [2]Universidad de Santiago de Chile; [3]Pontificia Universidad Católica de Chile. [4]Universidad Andrés Bello. bvanzundert@unab.cl

MMP-14 PRODUCED BY BONE MARROW-DERIVED CELLS SHEDS EPITHELIAL ENDOGLIN MODULATING THE MIGRATORY PROPERTIES OF HUMAN BREAST CANCER CELLS. **Tobar N[1].,** Toyos M[1]., Quintanilla M[2]., Bernabeu C.[3] and Martínez J.[1]. Laboratorio de Biología Celular y Molecular, INTA, Universidad de Chile. [2]Instituto de Investigaciones Biomédicas and [3]Centro de Investigaciones Biológicas, CSIC, Madrid, Spain. nicolastobar@gmail.com

CROSS-TALK BETWEEN Ca^{+2}, NO AND H_2O_2 IN THE MARINE ALGA *Ulva compressa* (*Chlorophyta*) IN RESPONSE TO COPPER EXCESS. **Alberto González**, M. Josefa Henríquez, Rodrigo A. Contreras and Alejandra Moenne. alejandra.moenne@usach.cl (Sponsor: M. Imarai)

INFECTIOUS PANCREATIC NECROSIS VIRUS IN SALMONIDS: PERSISTENCE AND IMMUNOLOGICAL RESPONSE. **Reyes-Cerpa S[1]**, Toro-Ascuy D[1], Montero R[1], Cottet L[2], Reyes-López FE[1], Sandino AM [2], Imarai M[1]. [1]Laboratorio de Inmunología, [2]Laboratorio de Virología. Centro de Biotecnología Acuícola. Facultad de Química y Biología. Universidad de Santiago de Chile. sebastian.reyesc@usach.cl

COPPER OVERLOAD IN THE ERYTHROPOIETIC CELL LINE K562 GOVERNS CELL FATE ALONG WITH CHANGES IN MITOCHONDRIAL PHYSIOLOGY. **Lina Ruiz,** Yancing Rossel, Rodrigo Bustos, Alvaro Elorza. Universidad Andrés Bello. aelorza@unab.cl

PANNEXIN HEMICHANNELS CONTRIBUTE TO Ca^{2+} DYNAMICS DURING ATP-INDUCED MIGRATION IN CONFINEMENT. **Sáez PJ[1],** Vargas P[2], Lennon-Duménil AM[2] and Sáez JC[1]. [1]Departamento de Fisiología, Santiago, Chile and [2]INSERM U932, Institut Curie, Paris, France. pjsaez@uc.cl

ANTI-P AUTOANTIBODIES ENHANCE CYTOSOLIC CALCIUM AND NEUROTRANSMISSION IN HIPPOCAMPAL NEURONS BY CROSS-REACTING WITH CELL SURFACE NSPA. **Fabian Segovia-Miranda**[1,2], Jorge Parodi[1], Felipe Serrano[1], Noelia Escobedo[1], Marcela Bravo-Zehnder[1,2], Pedro Zamorano[3], Juan Larraín[1], David Valenzuela[4], Loreto Massardo[2], Nibaldo C. Inestrosa[1], Alfonso González[1,2]. Centro de Envejecimiento y Regeneración (CARE), Fac. Ciencias Biológicas[1]. Departamento de Inmunología Clínica y Reumatología, Facultad Medicina[2]. Pontificia Universidad Católica de Chile. Departamento Biomédico, Universidad de Antofagasta de Chile[3]. Regeneron Pharmaceuticals Inc[4].

INCREASED RESTING CALCIUM LEVELS ACTIVATE NF-kB IN DYSTROPHIC (*MDX*) MYOTUBES. **Altamirano F.[1],** López JR.[2], Allen PD[2] and Jaimovich E[1]. [1]Centro de Estudios

Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile, Santiago, Chile and [2]Department of Anesthesia, Brigham and Women's Hospital, Harvard Medical School, Boston, USA. fcoaltamirano@gmail.com

19:30 – 20:30 PLENARY LECTURE CENTRO FONDAP DE REGULACION DEL GENOMA UNIVERSIDAD DE CHILE, P. UNIVERSIDAD CATOLICA DE CHILE Y UNIVERSIDAD ANDRES BELLO
Volcanes Room - Chair: Miguel Allende

IMMUNE MODULATION OF MAMMALIAN REGENERATION. Nadia Rosenthal. Mouse Biology Unit, EMBL-Monterotondo Outstation, Rome**.** Heart Science Centre, Imperial College London**.** Australian Regenerative Medicine Institute, Monash University, Melbourne.

20:30 Dinner

22:00 – 23:30 Poster Presentations Session II: N° 86 to N° 170
Convention Center Foyer
Coordinators: Maria de los Angeles Garcia, Christian Gonzalez, Ariel Reyes

(86) DIFFERENTIAL REGULATION OF TACE/Adam17 PROMOTER BY TRANSCRIPTION FACTOR RUNX2. Héctor Araya[1,2], Oscar Vega[1,2], Nelson Varela[1,2], Marcelo Antonelli[2], Ricardo Moreno[3], Juan Pablo Rodríguez[4], Gary S Stein[5], Andre van Wijnen[5] , Julio Tapia[2], Mario Galindo[1,2]. [1]Millennium Institute on Inmunology and Inmunotherapy. [2]Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. [3]Unidad de Reproducción y Desarrollo, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. [4]INTA, Universidad de Chile. [5]Departament of Cell Biology and Cancer Center, University of Massachusetts Medical School, Worcester, Massachusetts. mgalindo@med.uchile.cl

(87) REGULATION OF N-TYPE Ca^{2+} CHANNELS BY THE INTERACTION WITH THE LIGHT CHAIN 1 (LC1) OF MICROTUBULE ASSOCIATED PROTEIN B (MAP1B). Henríquez, D.R.[1], Gandini, M.A.[2], Sandoval, A.[2], Felix, R.[2] and González-Billault, C.[1]. [1]Laboratory of Cell and Neuronal Dynamics, Department of Biology, Universidad de Chile, [2]Departmento de Biología Celular, Cinvestav-IPN, México. darohenga@gmail.com

(88) HEMICHANNELS PARTICIPATE IN MAST CELLS DEGRANULATION INDUCED BY ANTIGEN RECOGNITION. Harcha PA, Sáez JC. Departamento de Fisiología, P. Universidad Católica de Chile. paharcha@puc.cl

(89) ROLE OF α6β1 INTEGRIN IN SECRETION, ORGANIZATION, ADHESION AND SURVIVAL OF DIFFERENTIATED 3D ACINI OF SALIVARY GLANDS CELLS: IMPLICATIONS IN SJÖGREN'S SYNDROME. Urra H, Cortés J, Bahamondes V, Castro I, Barrera MJ, Aguilera S, Molina C, Leyton C, Alliende C, González S, and González MJ. ICBM Facultad de Medicina Universidad de Chile. hery.urra@gmail.com

(90) THE HEDGEHOG (Hh) PATHWAY MODULATES MATURATION OF CHONDROCYTES *in vitro* THROUGH NEOGENIN 1. João Francisco Botelho, Cynthia Villarroel, Pablo Lois and Verónica Palma. Laboratory of Stem Cells and Development, Facultad de Ciencias, Universidad de Chile. chicobotelho@gmail.com

(91) EXPRESSION OF AKT/PKB IN STREPTOZOTOCIN-INDUCED DIABETIC RAT KIDNEY. Marcos Soto, Romina Bertinat, Pamela Silva, Pamela Kairath and Alejandro Yañez. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile (UACH). marcossoto85@hotmail.com

(92) REGULATION OF RUNX2 DURING CELL CYCLE AND ITS EFFECT IN THE PROLIFERATION OF OSTEOSARCOMA CELL LINES. Claudia Lucero[1,2], Oscar Vega[1,2], Mariana Osorio[1,2], Julio Tapia[2], Marcelo Antonelli[2], Gary S Stein[3], Andre van Wijnen[3] and Mario Galindo[1,2]. [1]Millennium Institute on Immunology and Immunotherapy, [2]Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile, [3]Department of Cell Biology and Cancer Center, University of Massachutsetts Medical School, USA. mgalindo@med.uchile.cl

(93) PANNEXIN MEDIATED COUPLING OF OLIGODENDROCYTES AND OF A CELL LINE DERIVED FROM HUMAN OLIGODENDROGLIOMA. **Paola A. Soto[1]**, Paola Fernández[1], Maximiliano Rovegno[1], Agustín D. Martínez[2], Bruno Cisternas[1], Felipe Court[1], Alex Vielma[2], Oliver Schmachtenberg[2], Michael V.L. Bennett[3] and Juan C. Sáez[1,2]. [1]Departamento de Fisiología, Pontificia Universidad Católica de Chile, Santiago, Chile and [2]Instituto milenio, CINV, Valparaíso, Chile. [3]Department of Neuroscience, Albert Einstein College of Medicine, Bronx, NY, USA.

(94) ANALYSIS OF A FRACTION OF HUMAN RECOMBINANT FSH THAT INDUCES CELL DEATH. **Orellana RF**, Ríos M, Ortiz ME, Owen GI and Velásquez EV. Faculty of Biological Sciences, Pontificia Universidad Católica de Chile and Chilean Institute of Reproductive Medicine (ICMER), Santiago, Chile.

(95) QUANTIFICATION OF ACTIVE ORGANIZATION AND DIFFUSION WITHIN THE ENDOPLASMIC RETICULUM (ER). **Briones L**[1], Ramírez O[1], Scheer J[1], Moraga H[1], Jara J[13], Osorio-Reich M[1], Asahi T[4], Ortega J[4], Couve A[2], and Härtel S[1]. [1]SCIAN-Lab, [2]Couve-Lab, BNI, Faculty of Medicine, [3]DCC, [4]CMM, FCFM, U. of Chile. lbriones@med.uchile.cl

(96) GLUCOSE INCREASES INTRACELLULAR FREE Ca^{2+} IN TANYCYTES VIA ATP RELEASED THROUGH CONNEXIN 43 HEMICHANNELS. **Juan A. Orellana[1]**, Pablo J. Sáez[1], Christian Cortés-Campos[2], Roberto J. Elizondo[2], Kenji F. Shoji[1], Susana Contreras-Duarte[1] Vania Figueroa[1], Victoria Velarde[1], Jean X. Jiang[3], Francisco Nualart[2], Juan C. Sáez[1] and María A. García[2]. [1]Departamento de Fisiología, Pontificia Universidad Católica de Chile, Santiago, Chile; [2]Departamento de Biología Celular, Universidad de Concepción, Concepción, Chile; [3]Department of Biochemistry, University of Texas Health Science Center, San Antonio, TX, USA.

(97) AT EARLY STAGE OF DIABETIC NEPHROPATHY (DN), RAF KINASE INHIBITOR PROTEIN (RKIP) DOWNREGULATION PRODUCE AN UNUSUAL THICKNESS OF GLOMERULAR BASEMENT MEMBRANE (GBM). **Fabian Pardo**, Romina Bertinat, Juan Carlos Slebe and Alejandro Yáñez. Instituto de Bioquímica y Microbiología, Universidad Austral de Chile. fabian.pardo@gmail.com

(98) BMP-2 ON MESENCHYMAL STEM CELLS (MSCS) ADIPOGENIC DIFFERENTIATION. **Oscar Donoso**, Nelson Osses*, Ana María Pino, Mireya Fernández, Juan Pablo Rodríguez. Laboratorio de Biología Celular y Molecular, INTA, Universidad de Chile. *Facultad de Ciencias. P. Universidad Católica de Valparaíso. oscardonosomora@gmail.com

(99) COTRANSIN INHIBITS p58 AND ERdj3 TRANSLOCATION AND DOWNREGULATES THE UNFOLDED PROTEIN RESPONSE. **Ureta, G.[1,2],** Amoroso, A.[3], McCullahg, E.[1], Taunton,J.[4], Snapp,E.[5], Bernales,S.[1]. 1.Fundación Ciencia para la Vida. 2.Universidad Andrés Bello. 3.Universidad San Sebastián. 4.University of California. 5.Albert Einstein College of Medicine. g.ureta.diaz@gmail.com

(100) ROLE OF CHOLESTEROL AND MLN64 IN MITOCHONDRIAL DYSFUNCTION AND OXIDATIVE STRESS IN NIEMANN-PICK TYPE C DISEASE MODELS. **Elisa Balboa**, Nuria Matías, Carlos Fernandez-Checa, Silvana Zanlungo. Departamento de Gastroenterología, Facultad de Medicina, Pontificia Universidad Católica de Chile. ebalboa@gmail.com

(101) MOLECULAR CHARACTERIZATION AND DEVELOPMENTAL EXPRESSION OF CG6234 PROTEIN FROM *Drosophila melanogaster*. **Carlos Chacón,** Christian Hodar and Verónica Cambiazo. Laboratorio Bioinformatica y Expresión Génica, INTA-Universidad de Chile and Center for Genome Regulation (CRG). chacon.biotec@gmail.com

(102) ROLE OF THE NEUROTROPHIN BRAIN DERIVED NEUROTROPHIC FACTOR (BDNF) IN LATERAL LINE NERVE REGENERATION IN ZEBRAFISH LARVAE. **Moya J.**, Villegas R., Sánchez M., Peña O. and Allende M. FONDAP Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile. allende@uchile.cl

(103) SPINAL CORD INJURY AND REGENERATION IN *Xenopus laevis*. **Dasfne Lee-Liu[1,3],** Mauricio Moreno[1], Leonardo Almonacid[2], Ricardo Tampe[1], Marcia Gaete[1], Francisco Melo[2], Juan

Larrain[1]. [1]Center for Aging and Regeneration and Millennium Nucleus in Regenerative Biology, Pontificia Universidad Catolica, Santiago, Chile; [2]Molecular Bioinformatics Laboratory, Millennium Institute on Immunology and Immunotherapy, Santiago, Chile; [3]Faculty of Chemical and Pharmaceutical Sciences, Universidad de Chile, Santiago, Chile. dasfne@gmail.com

(104) TRANSIENT INACTIVATION OF MYOSTATIN IN DIFFERENT DEVELOPMENTAL STAGES REGULATES DIFFERENTIALLY MYOGENESYS IN ZEBRAFISH. **Navarro C.,** Valdés J.A. and Molina A. Universidad Andrés Bello. Chile. amolina@unab.cl

(105) GENETIC ANALYSIS OF ECLOSION HORMONE FUNCTION IN *Drosophila* ECDYSIS BEHAVIOR. **Eileen Kruger**, Wilson Mena & John Ewer. Centro Interdisciplinario de Neurociencia de Valparaíso. Universidad de Valparaíso. eileen.kruger@cinv.cl

(106) TARGET GENES OF DPP/BMP SIGNALING PATHWAY REVEALED BY TRANSCRIPTOME PROFILING IN THE EARLY *D. melanogaster* EMBRYO. **Calixto Domínguez,** Alejandro Zúñiga, Carlos Chacón, Michael Pino y Verónica Cambiazo. Laboratorio Bioinformatica y Expresión Génica, INTA-Universidad de Chile and Center for Genome Regulation (CRG). cdportilla@yahoo.com

(107) MAGUK PROTEINS PARTICIPATES IN *Drosophila* OLFACTORY LEARNING. **Claudia Molina** and Jimena Sierralta. ICBM, Faculty of Medicine, Universidad de Chile and BNI. cmolina@med.uchile.cl

(108) Daam1 CONTROLS MORPHOGENESIS OF THE HABENULO-INTERPEDUNCULAR CIRCUIT IN ZEBRAFISH. Alicia Colombo, **Álvaro Díaz-Briceño**, Lorena Armijo, and Miguel Concha. Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. acolombo@med.uchile.cl; mconcha@med.uchile.cl

(109) ODOR-MEDIATED REGULATION OF OLFACTORY RECEPTOR EXPRESSION IN ZEBRAFISH. **Cristian Calfún[1,2],** Maegan Rivard[3], Juanita Astudillo[1,2], & Kathleen Whitlock[1,2]. 1.CINV, Universidad de Valparaiso, Chile. 2.Centro de Genómica de la Célula, Núcleo Milenio. Universidad de Valparaíso. 3. MBG, Cornell University USA. cristian.calfun@gmail.com

(110) HIF-1α IS REQUIRED FOR THE NORMAL FORMATION AND ARBORIZATION OF THE TRIGEMINAL GANGLION. **Santander L**. and Reyes A.E. Laboratorio Biología del Desarrollo, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Santiago, Chile. arielreyes@unab.cl

(111) CTIP1/Bcl11a PARTICIPATES IN THE DETERMINATION OF NEURONAL IDENTITY IN THE DEVELOPING NEOCORTEX. Cánovas J., Berndt F.A., Oliva C., Sierralta J., **Kukuljan M**. Programa de Fisiología y Biofísica, ICBM, e Instituto Milenio de Neurociencias Biomédicas, Facultad de Medicina, Universidad de Chile. kukuljan@med.uchile.cl

(112) THE ROLE OF THE UNFOLDED PROTEIN RESPONSE IN AXONAL REGENERATION AFTER SCIATIC NERVE INJURY. **Oñate M**.[1,2,3], Court F.A.[3,4] and Hetz C.[1,2,4]. [1]Biomedical Neuroscience Institute and [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile. [3]Millennium Nucleus in Regenerative Biology (MINREB), Catholic University of Chile. [4]Neurounion Biomedical Foundation. chetz@med.uchile.cl, fcourt@bio.puc.cl

(113) BMP SIGNALLING MODULATES PROLIFERATIVE POTENTIAL OF ADULT SPINAL CORD DERIVED NEURAL STEM CELLS. **Emilio Méndez**, Alejandro Erices. Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. eemendez@uc.cl

(114) META-ANALYSIS OF GENOME-WIDE ASSOCIATION STUDIES (GWAS) IN ALZHEIMER'S DISEASE. **Bustos B**, Pérez E and De Ferrari GV. Center for Biomedical Research. Faculty of Biological Sciences and Faculty of Medicine, Universidad Andres Bello, Chile. gdeferrari@unab.cl.

(115) *ANDROGRAPHOLIDE* PREVENT THE DECREASE OF SYNAPTIC PROTEINS AND INDUCES LTP IN BRAINS OF A DOUBLE TRANSGENIC MODEL OF ALZHEIMER'S

DISEASE, POSSIBLY BY A MECHANISM INVOLVING CANONICAL *WNT* PATHWAY. **Cheril Tapia-Rojas**, Felipe G. Serrano and Nibaldo C. Inestrosa. Centro de Envejecimiento y Regeneración (CARE), Departamento de Biología Celular y Molecular, Pontificia Universidad Católica de Chile. cctapia1@uc.cl

(116) INTERNALIZATION AND TRAFFICKING OF THE p75 NEUROTROPHIN RECEPTOR (p75). EVADING THE LATE ENDOSOMAL ROUTE TOWARDS MULTIVESICULAR BODIES SPECIALIZED FOR EXOSOMAL RELEASE. **Galleguillos C[1]**, Escudero CA[1], Parraguez JI[1], Uzma S[2], Lopez-Verrilli MA[1], Carter BD[2], Court FA[1], Bronfman FC[1]. 1Millennium Nucleus in Regenerative Biology (MINREB), Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile.

(117) EPIGENETIC MECHANSIMS THAT CONTROL PSD95 GENE EXPRESSION IN DEVELOPING HIPPOCAMPAL NEURONS. Fernando Bustos[1,2], Berta Henríquez[2], Rodrigo Aguilar[2,3], David González[2], **Martín Montecino[2,3], Brigitte van Zundert[2]**. [1]University of Concepción; [2]Center for Biomedical Research, Andres Bello University, Santiago; [3]FONDAP Center for Genome Regulation. fbustosf@gmail.com

(118) METABOLIC MODULATION BY ASCORBIC ACID IN NEURONS UNDER GLUTAMATERGIC ACTIVITY DOES NOT RELY ON THE ANTIOXIDANT PROPERTIES OF THIS MOLECULE. **[1]María Paz Miró,** [1]Felipe Beltran, [1]Aníbal I. Acuña, [1]Ilona I. Concha, [2]Michael Levine, [1]Maite A. Castro. [2]Semel Institute, UCLA; [1]Instituto de Bioquímica y Microbiología, UACh. macastro@uach.cl

(119) ATF-4 DEFICIENCY PROTECTS AGAINST AMYOTROPHIC LATERAL SCLEROSIS ASSOCIATED TO AN ALTERATION OF THE PROTEIN DISULPHIDE ISOMERASE (PDI) FAMILY EXPRESSION PATTERN AND A CHANGE IN CELLULAR REDOX STATE. **Matus S**.[1,2,3], Lopez E.[1,2,3], Hetz C.[1,2,3]. [1]Biomedical Neuroscience Institute, Faculty of Medicine. [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. [3]Neurounion Biomedical Foundation, Santiago, Chile. mmatus@med.uchile.cl

(120) ASSESSMENT OF THE AGGREGATION PROPERTIES OF PICCOLO AND BASSOON POLY-GLUTAMINE (PQ) DOMAINS: TOWARDS A PRION-LIKE MECHANISM FOR PROTEIN RECRUITMENT TO THE SYNAPSE. **Jaime Villalobos**, Yocelin Cruz, Viviana Torres, Pedro Zamorano. Laboratorio de Neurobiología, Facultad de Ciencias de la Salud, Universidad de Antofagasta. zamorano@uantof.cl

(121) COPPER REDUCES Aβ OLIGOMERIC SPECIES AND AMELIORATES NEUROMUSCULAR SYNAPTIC DEFECTS IN A *C. elegans* MODEL OF IBM. **Daniela L. Rebolledo[1]**, Rebeca Aldunate[1,2], Alicia N. Minniti[1], Nibaldo C. Inestrosa[1]. [1]CARE, P. Universidad Católica de Chile. [2]Escuela de Biotecnología. Universidad Santo Tomás. dvreboll@uc.cl

(122) CLONING AND EXPRESION OF A NOVEL NEURON SURFACE PROTEIN, NSPA, INVOLVED IN PSYCHIATRIC LUPUS. **Bravo-Zehnder M**[1,2], Segovia F.[1,2], Jurado A[2], Zamorano P[3], Massardo L.[1,2], González A.[1,2]. Departamento de Inmunología Clínica y Reumatología, Facultad Medicina[1]. Centro de Envejecimiento y Regeneración. Fac. Ciencias Biológicas[2]. Pontificia Universidad Católica de Chile. Departamento Biomédico Universidad de Antofagasta de Chile[3]. mbravo@med.puc.cl

(123) A ROLE OF Beclin1 IN THE REGULATION OF AUTOPHAGY IN AMYOTROPHIC LATERAL SCLEROSIS. **Nassif M**. and Hetz C. Biomedical Neuroscience Institute, Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Neurounion Biomedical Foundation, Santiago, Chile. chetz@med.uhile.cl

(124) MYELIN ASSOCIATED PROTEINS BLOCK MIGRATION OF OLFACTORY ENSHEATHING CELLS: AN IN VITRO STUDY USING SINGLE CELL MIGRATION AND TRACTION FORCE MICROSCOPY ANALYSIS. Sara Nocentini*, **Diego Reginensi***, Simón Garcia, Patricia Carulla, María Teresa Moreno-Flores, Francisco Wandosell, Xavier Trepat, Ana Bribian, José A. del Río. Molecular and Cellular Neurobiotechnology. Institute for Bioengineering of Catalonia (IBEC), Spain. *These authors contribute equally to this study. diego.reginensi@gmail.com

(125) BDNF INDUCES DENDRITIC BRANCHING OF HIPPOCAMPAL NEURONS THROUGH A RAB11-DEPENDENT MECHANISM: DOES THE SAME MECHANISM ACCOUNT FOR AXONAL OUTGROWTH? **Andrés González**, Oscar Lazo, Carlos Flores and Francisca C Bronfman. Millennium Nucleus in Regenerative Biology (MINREB). Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. augonzal@uc.cl

(126) A RETINOIC ACID-DEPENDENT CHECKPOINT IN THE DEVELOPMENT OF CD4$^+$ T CELL-MEDIATED IMMUNITY. **Karina Pino-Lagos[1]**, Yanxia Guo[1], Chrysothemis Brown[3], Matthew P. Alexander[1], Raul Elgueta[3], Kathryn A Bennett[1], Victor De Vries[1], Elizabeth Nowak[1], Rune Blomhoff[4], Shanthini Sockanathan[5], Roshantha A Chandraratna[6], Ethan Dmitrovsky[2] and Randolph J Noelle[1, 3*]. 1.Department of Microbiology and Immunology, Dartmouth Medical School and Norris Cotton Cancer Center, Lebanon, NH 03756, USA. 2. Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, NH 03755, USA. 3.King's College London, King's Health Partners, Medical research Council (MRC) Centre of Transplantation, Guy's Hospital, London SE1 9RT, UK. 4.Department of Nutrition, Institute of Basic Medical Sciences, University of Oslo. Oslo, Norway. 5.The Solomon H. Snyder Department of Neuroscience, Johns Hopkins University, School of Medicine, Baltimore, MD 21205, USA. 6.IO Therapeutics, Santa Ana, CA 92705, USA.

(127) THE AXONAL ENDOPLASMIC RETICULUM AND GABA$_B$1a TRAFFICKING. **Viviana Valdés**[1,2], Christoph Schmidt[3] and Andrés Couve[1,2]. [1]Physiology and Biophysics, ICBM and [2]Biomedical Neuroscience Institute (BNI), Facultad de Medicina, Universidad de Chile, Santiago, Chile. [3]Georg-August-Universität Fakultät für Physik, Göttingen, Germany. vivianavaldes@gmail.com

(128) EXERCISE MODEL CHARACTERIZATION TO ASSESS MUSCLE ADAPTATIONS TO ATP-MEDIATED INTERLEUKIN-6 EXPRESSION IN MICE. **Fernández, R.[1]**, Galgani, J.[2], Jaimovich, E.[1] and Buvinic, S.[1,3]. [1]Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, [2]Departamento de Nutrición, Facultad de Medicina and [3]Facultad de Odontología. Universidad de Chile, Santiago, Chile. rodrigolicaf@gmail.com

(129) MUSCLE STEM-CELL THERAPY IS IMPROVED BY REDUCING THE FIBROSIS ASSOCIATED TO MUSCULAR DYSTROPHIES. **Jaime Gutiérrez**, Cabrera D., Morales MG., Brandan E. Laboratory of Cell Differentiation and Pathology, CARE. Department of Cell and Molecular Biology, Catholic University of Chile. jagutiep@puc.cl

(130) THE TRANSCRIPTION FACTORS NFAT, CREB AND SMAD2/3 ARE DIFFERENTIALLY REGULATED BY MYOSTATIN/IGF-1 DURING MYOBLAST DIFFERENTIATION. Sylvia Flores, Rodrigo Zuloaga, Andrea Retamales, Alfredo Molina, **Juan Antonio Valdés**. Universidad Andrés Bello, Facultad de Ciencias Biológicas, Laboratorio de Biotecnología Molecular. Santiago, Chile. jvaldes@unab.cl

(131) ALTERATION OF IL-6 SIGNALING IN UREMIC SKELETAL MUSCLE. **Dünner N.**, Venegas F., Peña JP., Coronado F., Michea L. and Jaimovich E. Center for Molecular Studies of the Cell. ICBM, Facultad de Medicina, Universidad de Chile. dailea_nd@yahoo.com

(132) THE VITAMIN C TRANSPORTER SVCT2 IS DOWN-REGULATED DURING EARLY POST-NATAL DEVELOPMENT OF SLOW SKELETAL MUSCLE FIBERS. **Daniel Sandoval,** Marcela Low, Jorge Ojeda, Jaime Teneb, Francisco Nualart and Juan Pablo Henríquez. Department of Cell Biology, Faculty of Biological Sciences, Universidad de Concepcion, Concepcion, Chile. jhenriquez@udec.cl

(133) TRANSFORMING GROWTH FACTOR-β STIMULATES MAMMARY MYOFIBROBLASTS DIFFERENTIATION THROUGH NOX4 INDUCTION AND JNK ACTIVATION. **Toyos M.,** Tobar N., and Martínez J. Laboratorio de Biología Celular y Molecular, INTA, Universidad de Chile. marcetoyos@gmail.com

(134) DIFERENCIAL GENE EXPRESSION BETWEEN NORMAL AND MDX MOUSE FIBERS INDUCED BY ATP SIGNALING. **Valladares D.,** Almarza G., Jaimovich E. Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile.

(135) UBIQUITIN-PROTEASOME SYSTEM MEDIATED STABILITY REGULATION OF PAX7 AND ITS ROLE IN ADULT MUSCLE SATELLITE STEM CELL FUNCTION. **Francisco J. Bustos**[1], John Yates III[2] and Hugo C. Olguín[1]. [1]Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile. [2]Dept. of Chemical Physiology, The Scripps Research Institute, La Jolla, USA. fubustos@uc.cl (Sponsor: E.O. Campos).

(136) PROCESSING, RELEASE AND NUCLEAR RELOCALIZATION OF THE INTRACELLULAR TAIL DOMAIN OF BONE MORPHOGENETIC PROTEIN RECEPTOR II (BMPRII). **Margarita Parada**[1], Juan Pablo Henríquez[2] and Nelson Osses[1]. [1]Instituto de Química, Pontificia Universidad Católica de Valparaíso. [2]Departamento de Biología Celular, Universidad de Concepción. nelson.osses@ucv.cl

(137) ALTERED PRO-INFLAMMATORY GENE EXPRESSION IN DYSTROPHIC *MDX* SKELETAL MUSCLE CELLS. **Henriquez C.**, Altamirano F. and Jaimovich E. Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina. Universidad de Chile, Santiago, Chile. carlos.henriquez@ug.uchile.cl

(138) ACTIVATION OF THE KININ B1 RECEPTOR INCREASES THE EXPRESSION AND RELEASE OF MATRIX METALLOPROTEASE-9 FROM HUMAN HaCaT KERATINOCYTES. **Matus CE,** Mejia AJ, Ehrenfeld P, Pavicic MF, Figueroa CD. Instituto de Anatomia, Histologia y Patologia, Universidad Austral de Chile. matus.carola@gmail.com

(139) MINIMAL DOMAIN OF WNT3A ABLE TO ACTIVATE WNT/β-CATENIN SIGNALING. **Burgos CF**[1,2], Peralta A[1], Martinez J[2] and De Ferrari GV[1,2]. [1]Center for Biomedical Research, Faculty of Biological Sciences and Faculty of Medicine, Universidad Andrés Bello, Santiago, and [2]Department of Biochemistry and Molecular Biology, Faculty of Biological Sciences, Universidad de Concepción, Chile. gdeferrari@unab.cl

(140) ROLE OF INTRACELLULAR CALCIUM CHANNELS RYR, IP3R AND NAD(P)H OXIDASE IN INSULIN-INDUCED GLUT4 TRANSLOCATION AND GLUCOSE UPTAKE IN SKELETAL MUSCLE CELLS. **Contreras-Ferrat A.**[1,2], Vasquez C.[1], Espinosa A.[1], Lavandero S.[1], Klip A.[2], Jaimovich E.[1]. [1]Centro de Estudios Moleculares de la Célula, Universidad de Chile, Santiago, Chile [2]Hospital for Sick Children, Research Institute, Toronto, ON, Canada. acontreras@med.uchile.cl

(141) TURNOVER OF AMYLOID PRECURSOR PROTEIN CARBOXY TERMINAL FRAGMENT BETA (C99) IN LYSOSOMAL COMPARTMENTS. **Andrés Rivera-Dictter**[1], Hianara Bustamante[1], Vanessa Muñoz[1], Viviana Cavieres[1], Juan S. Bonifacino[2], Gonzalo Mardones[1], and Patricia Burgos[1]. [1]Laboratorio de Biología Celular y Molecular, Instituto de Fisiología, Facultad de Medicina, Universidad Austral de Chile, Valdivia, and [2]Cell Biology and Metabolism Program, NICHD, National Institutes of Health, Bethesda, MD USA. burgospa@gmail.com

(142) FLUCTUATIONS IN BRAIN EXTRACELLULAR ASCORBIC ACID CONCENTRATION COULD DRIVE CHANGES IN THE AVAILABILITY OF SVCT2 AT PLASMA MEMBRANE. [1]**Magdalena Esparza**, [1]Aníbal I. Acuña, [1]Carlos Kramm, [2]Carlos Toro, [2]Sebastián Brauchi y [1]Maite A. Castro. [1]Instituto de Bioquímica y Microbiología, [2]Instituto de Fisiología, Universidad Austral de Chile. macastro@uach.cl

(143) GALECTIN-8 INDUCES EGFR ACTIVATION, ENDOCYTOSIS AND CELL PROLIFERATION IN HELA CELLS. **Remziye Döger,** Ronan Shaughnessy, Andrea Soza, Alfonso Gonzalez. Departamento de Inmunología Clínica y Reumatología, Fac. Medicina. Centro de Envejecimiento y Regeneración (CARE). Fac. Ciencias Biológicas. Pontificia Universidad Católica de Chile. remziye.doger@gmail.com

(144) TH1 AND TH17 PROFILES INDUCTION ARE ASSOCIATED WITH IMMUNOLOGICAL RESPONSES AND LONG-TERM PATIENT SURVIVAL ON MELANOMA PATIENTS TREATED WITH DENTRITIC CELLS BASED IMMUNOTHERAPY. Falcón-Beas C[1,2], Tempio F[1,2], Pesce B[1,2], Aguillón J[1,2], Pereda C[1,2], Saffie C[1,2], Salazar-Onfray F[1,2], **López M.N[1-3].** [1]Millennium

Nucleus on Immunology and Immunotherapy; [2]ICBM, Faculty of Medicine, University of Chile; [3]Research Support Office, University of Chile Clinical Hospital. melopez@med.uchile.cl

(145) DOPAMINE RECEPTOR D5 EXPRESSED ON IMMUNE CELLS PROMOTES CD4$^+$ T-CELL-MEDIATED AUTOIMMUNITY. **Carolina Prado[1,2]**, Francisco Contreras[1,2], Rodrigo Pacheco[1]. [1]Fundación Ciencia para la Vida and [2]Universidad Nacional Andrés Bello. Santiago, Chile. carolinapradot@gmail.com

(146) INHIBITION OF HANTAVIRUS ENTRY INTO THE CELL. **[1,2]Barriga., G.P.** and [1]Tischler, N.D. [1]Fundación Ciencia para la Vida and [2]Universidad Andrés Bello, Santiago, Chile. gonzalo.barriga@gmail.com

(147) AtPRP3 BUT NOT AtPRP1 IS ACTIVELY ENDOCYTOSED FROM THE CELL WALL AT THE ROOT HAIR GROWING TIP. **Rodriguez-Furlan, Cecilia I** (A), Orellana, Ariel (A), Tierney, Mary (B). (A):Plant Biotechnology Center, Universidad Andres Bello. (B):Plant Department, Vermont University. cec.rodriguez.f@uandresbello.edu

(148) ANTI-CD115 ANTIBODIES: TOOL FOR CHARACTERIZATION OF MACROPHAGES-LIKE CELLS OF RAINBOW TROUT. **Maisey K[1]**, Torres-Undurraga C[1], Wang T[2], Secombes CJ[2] and Imarai M[1]. [1]Laboratorio de Inmunología, Centro de Biotecnología Acuícola (CBA), Universidad de Santiago de Chile. [2]Scottish Fish Immunology Research Centre University of Aberdeen, UK. kmaisey@cba-usach.cl

(149) CALRETICULIN DETECTION IN SALIVA OF DOMESTIC DOGS (*Canis lupus familiaris*). **Coddou, F.,** Weinberger, K., Duaso, M.L., Valck, C., Ramírez, G., Maldonado, I., Ferreira, A. Disciplinary Immunology Program, Biomedical Sciences Institute, Faculty of Medicine, University of Chile. aferreir@med.uchile.cl

(150) INDUCIBLE REGULATORY T CELLS PRODUCE FACTORS THAT GENERATE REGULATORY T CELLS *in vitro*. **C. Fuentes[1]** C. Moore[2], M.R. Bono[1], M. Rosemblatt[1,2]. [1]Facultad de Ciencias, Universidad de Chile, [2]UNAB y Fundación Ciencias para la Vida. camifuentes@gmail.com

(151) PRODUCTION OF ANTI-CD3e ANTIBODIES: A TOOL FOR CHARACTERIZATION OF SALMONID LYMPHOCYTES. **Montero R**, Valenzuela B, Maisey K, Imarai B. Laboratorio de Inmunología, Centro de Biotecnología Acuícola. Facultad de Química y Biología, Universidad de Santiago de Chile. ruth.montero@usach.cl

(152) DEXAMETHASONE AND MONOPHOSPHORYL LIPID A STIMULATION GENERATES TOLEROGENIC DENDRITIC CELLS WITH AN *in vitro* STABLE IMMUNOREGULATORY PHENOTYPE IN HEALTHY VOLUNTEERS. **Lorena Hoyos,** Paulina García, Rodrigo Morales, Bárbara Pesce, Karina Pino-Lagos, Diego Catalán, Juan Carlos Aguillón. Programa Disciplinario de Inmunología, ICBM, Facultad de Medicina, Universidad de Chile. www.irtgroup.cl; lorehoyosp@gmail.com

(153) *Neisseria gonorrhoeae* EFFECTS ON THE MATURATION OF DENDRITIC CELLS. **Bélgica Villegas-Valdés**, Sebastián Reyes-Cerpa, Kevin Maisey, Alejandro Escobar, Mónica Imarai, Claudio Acuña-Castillo. Universidad de Santiago de Chile. claudio.acuna@usach.cl

(154) REPRIMO REDUCES TUMORIGENIC CHARACTERISTICS OF HUMAN GASTRIC CANCER CELL LINES. **Olivares W.[1]**, Torres V.[1], Leguina A.[1], Maturana MJ.[1], Montecinos V.[1], Aguayo F.[2], Corvalán AH.[1]. [1]Hematology-Oncology Department, Pontificia Universidad Católica de Chile. [2]Virology Department, Universidad Chile. wildapucv@gmail.com (Sponsor: A. Quest)

(155) CHEMOTHERAPEUTIC NUCLEOSIDE ANALOG TRANSPORTER HUMAN ENT1 (EQUILIBRATIVE NUCLEOSIDE TRANSPORTER 1) EXPRESSION AND ACTIVITY IS MODULATED BY PEROXISOME PROLIFERATOR ACTIVATED-RECEPTORS (PPARs) IN OVARIAN CANCER CELLS. **Trinidad Montero[1]**, Sumie Kato[2], Dusan Racordon[4], M[a] Loreto Bravo[4], Gareth Owen[4], Mauricio Cuello[2], Miguel Bronfman[3] and Andrea V Leisewitz[1]. [1]Hematology-Oncology Department, [2] Division of Obstetrics and Gynecology, School of Medicine,[3] Cellular and

Molecular Biology Department, [4]Physiology Department, Faculty of Biological Sciences, Pontificia Universidad Católica de Chile, Santiago, Chile.

(156) DIFFERENTIAL EXPRESSION PATTERN OF STROMA CELL MARKERS AND VEGF-A IN PRIMARY CULTURED STROMA FROM BENIGN AND PROSTATE CANCER EXPLANTS. **Javier Cerda[1]**, Ignacio San Francisco[2], Alejandro Godoy[3], Viviana Montecinos[1]. [1]Hematology-Oncology and [2]Urology Departments, Pontificia U. Católica de Chile. [3]Department of Urology, Roswell Park Cancer Institute, Buffalo NY. jcerda.infante@gmail.com (Sponsor: MA García).

(157) ANALYSIS OF NKG2D LIGANDS EXPRESSION ON TUMOR CELLS FROM GASTRIC CANCER PATIENTS. **Kramm K.,** Ribeiro C. H., Bustamante M, Garrido Tapia M., Hernández C. J., Collazo N., Sotelo P., Zúñiga R. and Molina M.C. Laboratory of Immunosurveillance and Immune Evasion. Disciplinary Program of Immunology, Faculty of Medicine, Universidad de Chile. karinakv@ug.uchile.cl

(158) NOVEL ANDROGEN RECEPTOR PURE ANTAGONIST MDV3100 PREVENTS NUCLEAR RECEPTOR TRANSLOCATION AND INDUCE TUMOR REGRESSION IN MICE MODEL OF CASTRATE-RESISTANT PROSTATE CANCER. J. Guerrero[1], **F. Gomez[1]**, I.E. Alfaro[1], A.A. Protter[2], S. Bernales[1,2]. [1]Fundación Ciencia para la Vida, Santiago, Chile. [2]Medivation Inc., San Francisco, CA, USA. fcogomezm@gmail.com

(159) STATINS COUNTERACT THE LEPTIN INDUCED MIGRATION AND INVASIVENESS IN HUMAN EPITHELIAL OVARIAN CANCER CELLS BY INHIBITION OF RHOA SIGNALLING PATHWAY. **Díaz D[1]**., Kato S[1]., Cuello M[1]. [1]Division of Obstetrics and Gynecology, Pontificia Universidad Católica de Chile. diazsilva.dm@gmail.com

(160) THE ANTI-TUMORIGENIC ACTION OF 2-METHOXYESTRADIOL IS INHIBITED BY SULFONATION IN THE BREAST CANCER CELLS. **Vargas MF[1,3]**, Spink DC[2] y Owen GI[1,3]. [1]Facultad de Ciencias Biológicas, Universidad Católica de Chile, Chile; [2]Wadsworth Center, SUNY, USA. [3]Biomedical Research Consortium of Chile (BMRC).

(161) MOLECULAR ANALYSIS OF THE rDNA TRANSCRIPTIONAL REGULATION DURING THE SEASONAL ADAPTATION OF *Cyprinus carpio* FISH. **Fumeron R.,** Dupré G., Molina A., Vera MI., Alvarez M. Laboratorio de Biología Celular y Molecular, Facultad Ciencias Biológicas, Universidad Andrés Bello, Viña del Mar, Chile. malvarez@unab.cl

(162) TWO DIMENSIONAL ELECTROPHORESIS PATTERNS FROM BOTH FERTILE AND INFERTILE *Echinococcus granulosus* CYSTS. **Christian Hidalgo**, Rodolfo Paredes. Laboratorio Salud de Ecosistemas, Escuela de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andrés Bello. rparedes@unab.cl

(163) EXPRESSION AND ACTIVITY OF TcAP1, A REPAIR DNA ENDONUCLEASE, IN *Trypanosoma cruzi*. **Iván Ponce**, Sofia Sepúlveda, Lucía Valenzuela, José Delgadillo, Santiago Ramírez, Soledad Sierra, Paula Bahamondes, Natalia Muñoz, Ulrike Kemmerling, Gonzalo Cabrera, Norbel Galanti. Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile. ivponce@ciq.uchile.cl

(164) MULTIPONTECIALITY OF HUMAN YOLK SAC ENDODERMAL CELLS. **Sulz L,** Godoy C, Pereda J. Escuela de Medicina, Universidad de Santiago de Chile, Santiago, Chile. lorena.sulz@usach.cl, carlos.godoy@usach.cl, jaime.pereda@usach.cl (Sponsor: P. Orihuela)

(165) INSULIN STIMULATION OF HUMAN CATIONIC AMINO ACID TRANSPORTER 1-MEDIATED L-ARGININE TRANSPORT INVOLVES A_{2A} ADENOSINE RECEPTORS IN HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS. **Guzmán-Gutiérrez E**, Westermeier F, Salomón C, Leiva A, Casanello P, Sobrevia L. Cellular and Molecular Physiology Laboratory (CMPL) & Perinatology Research Laboratory (PRL), Division of Obstetrics and Gynecology, School of Medicine, Faculty of Medicine, Pontificia Universidad Católica de Chile, P.O. Box 114-D, Santiago, Chile. elguzman@uc.cl

(166) TONIC INHIBITION OF THE RhoA/ROCK PATHWAY IS NOT PART OF THE MECHANISMS UNDERLYING MYOMETRIAL QUIESCENCE DURING PREGNANCY. **Garmendia LR,** Delpiano AM, Poblete JA, Cuello MA, Carvajal JA. Laboratorio de Medicina Materno-Fetal. Departamento de Obstetricia y Ginecología, Facultad de Medicina, Pontificia. U. Católica de Chile. liliana.garmendia.c@gmail.com

(167) ASSESSMENT OF THE A357D ACID SPHINGOMYELINASE GENE MUTATION FREQUENCY IN THE CHILEAN POPULATION. **Pérez MJ[1]**, Robledo F[1,] Castro J[1], Martínez P[1], Acuña M[1], Schuchman E[2], Miquel JM[1], Mabe P[3], Zanlungo S[1]. [1]Gastroenterology Department, Medicine Faculty, Pontificia Universidad Católica de Chile, [2]Department of Genetics & Genomic Sciences, Mount Sinai School of Medicine, New York, [3]Neurology Unit, Dr. Exequiel González Cortés Children's Hospital, Santiago de Chile. mjperez@uc.cl

(168) PHYSICAL AND FUNCTIONAL ASSOCIATION OF GLYCOPROTEIN VI (GPVI) AND TISSUE FACTOR (TF) IN HUMAN PLATELETS. **Valenzuela JG**, Panes O, Román P, Pereira J, Mezzano D, Matus V. Department of Hematology-Oncology, School of Medicine, P. Catholic University of Chile. (Sponsor: V. Velarde)

(169) INTEGRIN EXPRESSION DURING THE MENSTRUAL CYCLE IN THE FALLOPIAN TUBE. **Soto V.**[1], Solar P. [1,2], Cárdenas H.[1.2], Velásquez LA.[1,2]. [1]Laboratorio de Inmunología de la Reproducción, USACH. [2]Centro para el Desarrollo de la Nanociencia y la Nanotecnología (CEDENNA). (Sponsor: R. Moreno).

(170) SURFACE ADAM17 IS RELATED TO XENOESTROGENS–INDUCE GERM CELLS APOPTOSIS. **Paulina Urriola-Muñoz**, Raúl Lagos-Cabré, Magdalena Díaz and Ricardo D Moreno. Pontificia Universidad Católica de Chile, Facultad de Ciencias Biológicas, Departamento de Fisiología. paurriol@uc.cl

THURSDAY, NOVEMBER 3rd, 2011

08:00 **Poster Mounting Session III: N° 171 to N° 255**
Convention Center Foyer

09:00 – 10:30 **SYMPOSIUM CENTER FOR AGING AND REGENERATION**
P. UNIVERSIDAD CATOLICA DE CHILE
Calbuco Room - Chair: Nibaldo C. Inestrosa

"**TRAFFIC OF SYNAPTIC RECEPTORS"**

REGULATION OF NEURONAL DENDRITOGENESIS BY NMDA RECEPTORS AND THEIR UNDERLYING SCAFFOLDING AND SIGNALLING PROTEINS. **van Zundert, B**. Centro de Investigaciones Biomédicas (CIB), Fac. Ciencias Biológicas y Fac. Medicina, Universidad Andrés Bello, Santiago. bvanzundert@unab.cl

THE ROLE OF TROPHIC FACTORS AND TRAFFICKING MOLECULES IN ANTIDEPRESSANT ACTION. **Ursula Wyneken.** Laboratorio de Neurociencias, Universidad de los Andes, uwyneken@uandes.cl

CaMKII TRIGGERS THE DIFFUSIONAL TRAPPING OF SURFACE AMPARs THROUGH PHOSPHORYLATION OF STARGAZIN. **Patricio Opazo** and Daniel Choquet. Institut Interdisciplinaire de NeuroScience IINS, Bordeaux, France.

REGULATION OF KAR PLASTICITY AND TRAFFICKING BY CaMKII AND INTERACTION WITH PSD95. Mario Carta, Patrizio Opazo, Julien Veran, Daniel Choquet, Christophe Mulle and **Françoise Coussen.** Institut Interdisciplinaire de Neuroscience, UMR 5297 CNRS-Université de Bordeaux.

SYMPOSIUM CENTRO DE ESTUDIOS MOLECULARES DE LA CELULA (CEMC)
UNIVERSIDAD DE CHILE
Tronador Room - Chair: Andrew Quest

"**FOCUS ON GASTRIC CANCER"**

TRANSCENDING CLASSIC PARADIGMS IN CANCER – E-CADHERIN IS A MOLECULAR SWITCH THAT DEFINES CAVEOLIN-1 FUNCTION *IN VIVO*. **Andrew F. G. Quest.** Laboratorio de Comunicaciones Celulares, Centro de Estudios Moleculares de la Célula (CEMC), Facultad de Medicina, Universidad de Chile. aquest@med.uchile.cl

Stat3 PROVIDES A DRUGABLE SIGNALING NODE LINKING INFLAMMATION TO GASTROINTESTINAL CANCER. **Matthias ERNST.** Ludwig Institute for Cancer Research, Melbourne, VIC 3055, Australia**.**

REPRIMO, A NOVEL BIOMARKER AND POTENTIAL TUMOR SUPPRESSOR GENE IN GASTRIC CANCER. **Alejandro Corvalán**, Dept. Hematology-Oncology, P. Universidad Católica de Chile.

10:30 – 11:30 **Coffee Break – Exhibitors – Poster Viewing Session III**
Convention Center Foyer

11:30 – 13:30 **Oral Presentations IV**
Volcanes Room - Chair: Miguel Allende and Co-Chair: Ricardo Moreno

NEURONAL ENDOPLASMIC RETICULUM (ER) IMAGING WITH SUPER-RESOLUTION OPTICAL FLUCTUATION IMAGING (SOFI). **Omar Ramírez[1],** Felipe Santibáñez[1], Dirk Haehnel[3], Andrés Couve[2], Jörg Enderlein[3] & Steffen Härtel[1]. [1]SCIAN-Lab, [2]Laboratory of Cellular and Molecular

Neurobiology, BNI, ICBM, Facultad de Medicina, U-Chile. [3]III. Physikalisches Institut, Universität Göttingen, Germany. oramirez@med.uchile.cl

SYNERGISTIC EFFECT OF PLASMID pcDNA-SURV IN CONJUNCTION WITH THE PARASITIC CALRETICULIN ON B16F10 TUMOR MODEL *IN VIVO*. **Aguilar L.**[1,2], Lobos L.[2], Quest A.F.G.[2], Ferreira A.[1]. [1]Laboratorio de Inmunología de la Agresión Microbiana, [2]Laboratorio de Comunicaciones Celulares, ICBM, Universidad de Chile. aferreir@med.uchile.cl

ADAM17, AS A NEW CANDIDATE IN THE MECHANISM OF XENOESTROGENS-INDUCED APOPTOSIS IN TESTICULAR GERM CELLS. **Raúl Lagos-Cabré**, Paulina Urriola-Muñoz, Pablo Sáez, Juan C. Sáez and Ricardo D. Moreno. Pontificia Universidad Católica de Chile, Facultad de Ciencias Biológicas, Departamento de Fisiología. rclagos@uc.cl

THE ROLE OF MATRIX METALLOPROTEINASE 9 (MMP9) AND PI3K/AKT SIGNALING IN INFAMMATORY RESPONSE IN ZEBRAFISH LARVAE. **Oscar Peña,** Mario Sánchez, Nicole Reynaert, José Moya, Miguel Allende. FONDAP Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile. oscarpena@ug.uchile.cl; allende@uchile.cl

THE DENDRITIC ENDOPLASMIC RETICULUM AND CONVENTIONAL KINESIN DEFINE A NON-CANONICAL TRAFFICKING MODALITY FOR $GABA_B$ RECEPTORS. **José Ignacio Valenzuela**[1,3], Matías Jaureguiberry[1,3,4], Omar Ramírez[2,3], Thomas Blanpied[1], and Andrés Couve[1,3]. [1]Physiology and Biophysics, [2]Anatomy and Development, ICBM and [3]Biomedical Neuroscience Institute (BNI), Facultad de Medicina, Universidad de Chile, Santiago, Chile. [4]School of Biochemistry, Faculty of Biological Science, Universidad Andrés Bello, Santiago, Chile. [5]Department of Physiology, University of Maryland School of Medicine, Baltimore, MD. joseignacio.v@gmail.com

UBIQUITIN-DEPENDENT PROTEASOMAL DEGRADATION AND CLEAVAGE BY g-SECRETASE COMPETE FOR THE AMYLOID PRECURSOR PROTEIN CARBOXY TERMINAL FRAGMENT BETA (C99). **Hianara Bustamante**, Andrés Rivera-Dictter, Viviana Cavieres, Vanessa Muñoz, Gonzalo Mardones, and Patricia Burgos. Laboratorio de Biología Celular y Molecular, Instituto de Fisiología, Facultad de Medicina, Universidad Austral de Chile, Valdivia. burgospa@gmail.com

***In vivo* AND *in vitro* FUNCTIONAL CHARACTERIZATION OF RhoGEF3, A NEW GUANINE NUCLEOTIDE EXCHANGE FACTOR (GEF) OF *Drosophila melanogaster*.** **Alejandro Zúñiga**, Leandro Farías and Verónica Cambiazo. Laboratorio de Bioinformática y Expresión Génica, INTA-Universidad de Chile & Center for Genome Regulation (CRG). jano@inta.uchile.cl

AUXIN-INDEPENDENT LATERAL DEVELOPMENT INDUCED BY A CELLULAR TRAFFICKING DISRUPTING-DRUG. **Perez P[1,2],** Norambuena L[1,2]. [1]Plant Molecular Biology Laboratory, Faculty of Science, University of Chile. [2]Plant Cell Biotechnology Millennium Nucleus. lnorambuena@uchile.cl

13:30 – 15:30 Lunch

15:30 – 17:30 Oral Presentations V
Volcanes Room - Chair: Enrique Brandan and Co-Chair: Francisco Nualart

ANGIOTENSIN-(1-7) REDUCES FIBROSIS AND IMPROVES FUNCTION IN DYSTROPHIC SKELETAL MUSCLE. **Acuña MJ**[1], Vío CP[2], Cabello-Verrugio C[1,3] and Brandan E[1]. [1]Laboratorio de Diferenciación Celular y Patología; [2]Laboratorio de Fisiología, CARE, P. Universidad Católica de Chile. [3]Centrode Genética Humana, Clínica Alemana-Universidad del Desarrollo. ebrandan@bio.puc.cl

DEHYDROASCORBIC ACID MODULATES GLYCOLITIC, PENTOSE-PHOSPHATE PATHWAY AND GLUTATHION ACTIVITY IN ASTROCYTES. **Pedro Cisternas,** Carmen Silva-Alvarez, Karina Oyarce, Paula Llanos and Francisco Nualart. Department of Cell Biology, University of Concepcion. pecister@udec.cl

REGULATION OF DENDRITIC BRANCHING BY BDNF-INDUCED INCREASE OF RAB11 ACTIVITY IN HIPPOCAMPAL NEURONS. **Oscar M. Lazo**[1], Maria Ascano[2], Rejji Kuruvilla[2], Andrés Couve[3] and Francisca C. Bronfman[1]. [1]Millennium Nucleus in Regenerative Biology (MINREB), Facultad de Ciencias Biológicas. Pontificia Universidad Católica de Chile. [2]Department of Biology. Johns Hopkins University. USA. [3]ICBM, Universidad de Chile. omlazo@uc.cl

MCT1 KNOCKDOWN IN HYPOTHALAMIC GLIAL CELLS AND THEIR EFFECT IN THE EXPRESSION OF NEUROPEPTIDES THAT CONTROL FOOD INTAKE. **Cortés-Campos C**, Elizondo R, Nualart F, García MA. Departamento de Biología Celular, Facultad de Ciencias Biológicas, Universidad de Concepción. mgarcia@udec.cl

INHERENT GROWTH HORMONE RESISTANCE IN FISH SKELETAL MUSCLE IS MODULATED BY THE NUTRITIONAL STATUS AND IS CHARACTERIZED BY HIGH CONTENTS OF TRUNCATED GHR, IMPAIRMENT IN THE JAK2/STAT5 SIGNALING PATHWAY AND LOW IGF-I EXPRESSION. **Eduardo N. Fuentes**[a], Ingibjörg Eir Einarsdottir[b], Juan Antonio Valdes[a], Marco Alvarez[c], Alfredo Molina[a], Björn Thrandur Björnsson[b]. [a]Laboratorio de Biotecnología Molecular, Universidad Andrés Bello, Chile, [b]Fish Endocrinology Laboratory, University of Gothenburg, Sweden. edua.fuentes@gmail.com

ROLE OF PK17E AND RECS1 IN THE REDISTRIBUTION OF CADHERIN DURING *Drosophila* WING EPITHELIAL REMODELING. **Alvaro Glavic**. Center for Genome Regulation, Facultad de Ciencias, Universidad de Chile.

DENDRITIC AND STROMAL CELLS FROM THE SPLEEN OF LUPIC MICE PRESENT PHENOTYPIC AND FUNCTIONAL ABNORMALITIES. **A. Gleisner**[1], P.A. Reyes[2,3], M. Rosemblatt[1,2,3], M.R. Bono[1]. [1]Facultad de Ciencias, Universidad de Chile, [2]Universidad Andrés Bello, [3]Fundación Ciencia para la Vida. alejandra.gleisner@gmail.com

SCHWANN CELL TO AXON TRANSFER OF EXOSOMES PROMOTES AXONAL GROWTH AND REGENERATION. **M. Alejandra Lopez-Verrilli**, Felipe A. Court. Millennium Nucleus in Regenerative Biology (MINREB), Catholic University of Chile and Neurounion Biomedical Foundation. alejanddra@gmail.com, fcourt@bio.puc.cl

17:30 – 18:30 **Coffee Break – Exhibitors – Poster Viewing Session III**
Convention Center Foyer

18:30 – 19:30 **PLENARY LECTURE COOPERACION INTERNACIONAL DE FONDECYT (1100557)**
Calbuco Room - Chair: Maria Rosa Bono

REGULATION OF PLASMA CELL DIFFERENTIATION AND SURVIVAL IN AUTOIMMUNITY. **Loren D. Erickson**, Ph.D. Department of Microbiology, University of Virginia, Charlottesville, Virginia, USA.

PLENARY LECTURE NUCLEO MILENIO EN BIOLOGIA REGENERATIVA (MINREB)
Tronador Room - Chair: Alejandro Erices

HUNTINGTIN FROM EVOLUTION TO STEM CELL BIOLOGY AND TRANSPLANTATION. **Elena Cattaneo**, Coordinator NeuroStemcell (www.neurostemcell.org). Department of Pharmacological Sciences and Centre for Stem Cell Research (UniStem), University of Milano, Italy. Laboratory web site: www.cattaneolab.it - UniStem web site: www.unistem.it

19:30 – 21:00 **Society Members Meeting**
Lobby Room

20:30 **Dinner**

22:00 – 23:30 Poster Presentations Session III: N° 171 to N° 255
Convention Center Foyer
Coordinators: Marcela Hermoso, Mónica Imarai, Rodolfo Paredes

(171) RUNX2 REGULATES MMP EXPRESSION AND MODULATES CELL MIGRATION AND INVASION IN OSTEOSARCOMA CELLS. Karina Villegas[1,2], Oscar Vega[1,2], Marcela Hernández[3], Jorge Gamonal[3], Gary S Stein[4], Andre van Wijnen[4] and Mario Galindo[1,2]. [1]Millennium Institute on Immunology and Immunotherapy, [2]Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. [3]Laboratorio de Biología Periodontal, Facultad de Odontología, Universidad de Chile. [4]Departament of Cell Biology and Cancer Center, University of Massachusetts Medical School, Worcester, Massachusetts. mgalindo@med.uchile.cl

(172) DIFFERENTIAL EXPRESSION OF GENES RELATED TO AUTOPHAGY AND METASTASES IN ADVANCED OVARIAN CANCERS. [1,5]Racordon D, [1,5]Erices R, [1,5]Bravo M, [1,5]Gonzalez P, [3]Bustamante E, [4]Pizarro J, [2,5]Kato S, [2,5]Cuello M.A, [1,5]Owen G. I. [1]Faculty of Biological Sciences, [2]Faculty of Medicine, Pontificia Universidad Católica de Chile. [3]FALP, [4]Hospital Sotero del Rio, [5]Biomedical Research Consortium of Chile.

(173) EFFECT OF IGF2 OVEREXPRESSION ON TUMORIGENICITY OF HUMAN OVARIAN CARCINOMA CELLS. Jurriaan Brouwer-Visser, Suzan K. Chao, Ricardo D. Moreno and Gloria S. Huang. Albert Einstein College of Medicine, Bronx, New York and Pontificia Universidad Católica de Chile. jurriaan.brouwer@einstein.yu.edu

(174) ONCOGENIC KINASE AURORA-A DECREASES STABILITY OF THE TRANSCRIPTIONAL CO-REPRESSOR SKI. Solange Rivas[1], Jocelyn Mosquera[1], Leandro Torres[1,4], Ricardo Armisén[2,4], Julio C. Tapia[3,4], Michael J Hayman[5], Katherine Marcelain[1,4]. [1]Programa de Genética Humana, [2]Fisiopatología, [3]Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile. [4]Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile. [5]Microbiology and Molecular Genetics Department, Stony Brook University, USA. kmarcelain@med.uchile.cl (Sponsor: J.C. Tapia)

(175) PHYSICOCHEMICAL AND CYTOTOXICOLOGY CHARACTERIZATION OF POLYFUNCTIONAL POLYMERIC NANOPARTICLES DESIGNED FOR CANCER TREATMENT AND DIAGNOSIS. Solar P.[1,2], Vilos C.[1,2], Juica N.[1], Moreno M.[2], González G.[2], Cárdenas H.[1,2], Velásquez LA.[1,2]. [1]Laboratorio de Inmunología de la Reproducción, USACH. [2]Centro para el Desarrollo de la Nanociencia y Nanotecnología (CEDENNA). paula.solar@usach.cl (Sponsor: R. Moreno).

(176) A LENTIVIRUS ENCODING RNAI TARGETING A NON-CODING MITOCHONDRIAL RNA INHIBITS MELANOMA TUMOR GROWTH AND METASTASIS IN A MOUSE MODEL *in vivo*. Manuel Varas[1,2,3], Alvaro Lladser[1], Nicole Farfan[1], Pablo D.T. Valenzuela[1,2,3], Luis O. Burzio[1,2,3]. [1]Fundación Ciencia para la Vida; [2]Andes Biotechnologies S.A; [3]Facultad de Ciencias Biológicas, Universidad Andrés Bello. manu.varas@uandresbello.edu

(177) RAB5 ACTIVATION IS REQUIRED FOR CAVEOLIN-1 ENHANCED TUMOR CELL MIGRATION. Jorge Díaz[1, 2], Lisette Leyton[1], Andrew F.G. Quest[1], Vicente Torres[1,2]. [1]Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile. [2]Laboratorio de Biología Celular y Molecular, Departamento de Ciencias Básicas y Comunitarias, Facultad de Odontología, Universidad de Chile. aquest@med.uchile.cl, vatorres@med.uchile.cl

(178) NEURAL TENEURINS ARE EXPRESSED IN HUMAN TUMORS AND TUMOR-DERIVED CELL LINES. [1]Ziegler A., [1]di Capua G., [1]Oyarzún J.E., [2]Roa I.E., [3]Brañes J.A., [3]Casanello P., [1]Repetto G. [1]Center for Human Genetics, Faculty of Medicine, Clínica Alemana-Universidad del Desarrollo; [2]Division of Pathology, Clínica Alemana de Santiago; Perinatology [3]Research Laboratory (PRL) & Cellular and Molecular Physiology Laboratory (CMPL), Division of Obstetrics and Gynaecology, School of Medicine, Pontificia Universidad Católica de Chile. aziegler@udd.cl (Sponsor: C. Cabello)

(179) INHIBITION OF CAVEOLIN-1 PHOSPHORYLATION ON TYROSINE-14 IS ASSOCIATED WITH REDUCED MIGRATION, INVASION AND METASTASIS OF B16F10 MELANOMA CELLS. **Ortiz R.J*,** Urra H*, Lobos, L., Leyton L*, Quest AFG*. *Laboratorio de Comunicaciones Celulares, Centro de Estudios Moleculares de la Célula (CEMC), Facultad de Medicina, Universidad de Chile. aquest@med.uchile.cl

(180) RUNX2 EXPRESSION MODULATES ADHESION OF OSTEOSARCOMA CELLS TO HUMAN PULMONARY ENDOTHELIAL CELLS AND POSITIVELY CORRELATES WITH METASTATIC POTENTIAL. **Francisco Villanueva[1,2],** Óscar Vega[1,2], Mercedes Lopez[1,3], Flavio Salazar-Onfray[1,3], Gary Stein[4], Andre van Wijnen[4], Mario Galindo[1,3]. [1]Millennium Institute on Immunology and Immunotherapy, [2]Programa de Biología Celular y Molecular, [3]Programa Disciplinario de Inmunología, ICBM, Facultad de Medicina, Universidad de Chile. [4]Department of Cell Biology and Cancer Center, University of Massachusetts Medical School, USA. mgalindo@med.uchile.cl

(181) REGULATION OF ENDOTHELIN CONVERTING ENZYME-1 (ECE-1) EXPRESSION BY THE CYCLOOXYGENASE-2/PROSTAGLANDIN E2/β-CATENIN AXIS IN COLON CANCER CELLS. **Eduardo Silva[1]**, Pablo Cabello[1], Luis R. Cataldo[1], Roger Yefi[1], Ignacio Niechi[1], Daniela P. Ponce[1], Ricardo Armisen[2], Cristina Fernandez[3] & Julio C. Tapia[1,2]. [1]Cell Transformation Laboratory, [2]Institute of Biomedical Sciences (ICBM), Faculty of Medicine, and [3]Department of Anatomopathology, HCUCH, University of Chile. jtapia@med.uchile.cl

(182) REGULATORY T CELLS FROM PATIENTS WITH GASTRIC CANCER PRODUCE IL-10, A CYTOKINE THAT MODULATES NK CELL FUNCTION. **Ribeiro CH**, Kramm K, Bustamante M, Garrido-Tapia M, Hernández C, and Molina MC. Laboratorio de Inmunovigilancia y Evasión Inmune, Programa Disciplinario de Inmunología, Facultad de Medicina, Universidad de Chile. chager@med.uchile.cl

(183) STUDY OF THE MIGRATORY CAPABILITY OF TUMOR ANTIGEN PRESENTING CELLS (TAPCELLS) UNDER DIFFERENTIAL EXPRESSION OF CCR7. **Ortiz Carolina**, González F, Mora Gabriela, Salazar-Onfray F. Programa Disciplinario de Inmunología, Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile.

(184) THE ANTI-INFLAMMATORY SOLUBLE ST2 PROTEIN IS INDUCED BY GLUCOCORTICOIDS IN ULCERATIVE COLITIS. Lucía Núñez-Aguilera, **David Díaz-Jiménez**, Marjorie de la Fuente, Karen Dubois, Francisco López-Kostner, Rodrigo Quera, Marcela Hermoso. Innate Inmunity Lab, Immunology Program, ICBM, Universidad de Chile. lenunez@med.uchile.cl

(185) ***Helicobacter pylori*** **INCREASES MICA AND ULBP-2 EXPRESSION ON GASTRIC ADENOCARCINOMA CELLS.** **Hernández CJ**, Garrido-Tapia M, Kramm K, Ribeiro CH, Molina MC. Laboratorio de Evasión Inmune. Programa Disciplinario de Inmunología (ICBM), Facultad de Medicina, Universidad de Chile. carojimena@gmail.com

(186) NPC2 PROTEIN INCREASES CHOLESTEROL CRYSTALLIZATION IN MODEL BILE. **González L**, Castro J, Amigo L, Miquel JF, Zanlungo S. Departamento de Gastroenterología, Facultad de Medicina, Pontificia Universidad Católica de Chile. ldgonzal@uc.cl

(187) ACTIVATING THE b–CATENIN PATHWAY MODULATES THE PHENOTYPE OF DENDRITIC CELLS. **César Oyarce[1]**, Andrés Herrada[1], Andrew F.G. Quest[2] and Alvaro Lladser[1]. [1]Laboratory of Gene Immunotherapy, Fundación Ciencia para la Vida, Santiago, Chile. [2]Laboratory of Cellular Communication, Center for Molecular Studies of the Cell (CEMC), Facultad de Medicina, Universidad de Chile, Santiago, Chile. alvaro.lladser@bionova.cl

(188) ***Pseudomonas aeruginosa*** **INDUCES DIAPAUSE FORMATION IN** ***Caenorhabditis elegans*****: A LINK BETWEEN ANTIBACTERIAL IMMUNITY AND RNAi.** Chavez F[1], Pollak B[2], Ortiz J[1] and **Calixto A**[2]. [1]Department of Biology, Faculty of Sciences, University of Chile. [2]Center of Aging and Regeneration (CARE), P. Catholic University of Chile. acalixto@bio.puc.cl

(189) GENE EXPRESSION PROFILE IN MELANOMA PATIENTS TREATED WITH IMMUNOTHERAPY BASED IN DENDRITIC CELLS. **Garcia T**, Tittarelli A, Villablanca A, Pereda C, Matthäus F, López M, Hoheisel J, Gebicke-Haerter, Salazar F. Tumor Immunology Laboratory, Faculty of Medicine, University of Chile. tgarcia@med.uchile.cl

(190) ISA VIRUS INFECTION ALTERS THE CELLULAR REDOX BALANCE IN PRIMARY SALMON KIDNEY CELLS. **Víctor Olavarría** and Alejandro Yáñez**.** Laboratorio de Metabolismo y Biotecnología, Instituto de Bioquímica y microbiología, Universidad Austral de Chile. Campus Isla Teja, Valdivia, Chile. volavarria@gmail.com

(191) IDENTIFICATION OF CD8+ CELLS IN LYMPHOID ORGANS OF SALMONIDS. **Valenzuela B**., Rodríguez F.E., Maisey K., Imarai M. Laboratorio de Inmunología, Centro de Biotecnología Acuícola. Facultad de Química y Biología, Universidad de Santiago de Chile. beatriz.valenzuelam@usach.cl

(192) PRODUCTION OF VLPs OF INFECTIOUS PANCREATIC NECROSIS VIRUS (IPNV) BY USING BACULOVIRUS SYSTEM. René A. Manríquez, Melina V. Villalba, Freddy A. Calderón, **Juan G. Cárcamo**. Laboratorio de Bioquímica Farmacológica, Instituto de Bioquímica y Microbiología, Universidad Austral de Chile. gcarcamo@uach.cl

(193) REGULATION OF CYTOKINE EXPRESSION IN SALMONIDS SUBJECTED TO OXIDATIVE STRESS BY OVERCROWDING. **Rodríguez FE**., Cappelli, C., Valenzuela B., Imarai M. Laboratorio de Inmunología, Centro de Biotecnología Acuícola. Facultad de Química y Biología, Universidad de Santiago de Chile. felipe.rodriguezti@usach.cl

(194) GENOME-WIDE SURVEY OF GENE EXPRESSION RESPONSE TO *Piscirickettsia salmonis* IN RESISTANT AND SUSCEPTIBLE FAMILIES OF *Salmo salar*. **Rodrigo Pulgar,** Christian Hodar, Verónica Cambiazo. Laboratorio de Bioinformática y Expresión Génica, INTA, Universidad de Chile and Center for Genome Regulation (CRG). rpulgar@gmail.com

(195) IN SEARCH OF MARKERS FOR THE IDENTIFICATION OF LYMPHOID CELLS IN ZEBRAFISH. **Rubio S.,** Wittamer V., Bertrand J., Menares E., Allende M., Traver D., Rosemblatt M. Fundación Ciencia para la Vida, Universidad Andrés Bello; Facultad de Ciencias, Universidad de Chile; Santiago Chile; University of California, San Diego, USA. solangerubio@gmail.com

(196) GALECTIN-8 ENHANCES B CELL ANTIGEN PRESENTATION. Yuseff MI.[3], Soza A.[1,2] **Pardo E**.[1,2], Lennon-Duménil A.M.[3] and González A.[1,2]. Centro de Envejecimiento y Regeneración (CARE), Fac. Ciencias Biológicas[1]. Departamento de Inmunología Clínica y Reumatología, Fac. Medicina[2]. Pontificia Universidad Católica de Chile. Institut Curie, Paris, France[3].

(197) A KININ B1 RECEPTOR AGONIST INDUCES THE EXPRESSION AND RELEASE OF IL-4 FROM HUMAN HACAT KERATINOCYTES. **Mejia AJ,** Matus CE, Pavicic F, Ehrenfeld P, Figueroa CD. Instituto de Anatomía, Histología y Patología. Facultad de Medicina. Universidad Austral de Chile. ajmejiam@gmail.com

(198) RhoGEF3, A NEW GUANINE EXCHANGE FACTOR OF *Drosophila melanogaster*, IS INVOLVED IN TRACHEAL SYSTEM DEVELOPMENT. **Leandro Farías,** Alejandro Zúñiga and Verónica Cambiazo. Laboratorio de Bioinformática y Expresión Génica, INTA-Universidad de Chile and Center for Genome Regulation (CRG). leafariasag@gmail.com

(199) PARTICIPATION OF dp115 IN CELL PROLIFERATION IN *Drosophila melanogaster*. **Consuelo Ibar[1]** and Álvaro Glavic[1]. [1]Laboratorio de Biología del Desarrollo, Faculty of Science, University of Chile. con.ibar@gmail.com

(200) TISSUE DYNAMICS AND TENSILE PROPERTIES UNDERLYING THE FORMATION OF CELLULAR ROSETTES IN AN *in vivo* MODEL OF EPITHELIAL ORGANOGENESIS IN ZEBRAFISH. Eduardo Pulgar[1,2,3], Felipe Santibañez[2,3], **Ricardo Figueroa**[1,3], Justin Steinfeld[1], Luis Briones[2,3], Steffen Hartel[l2,3], Miguel Concha[1,3]. [1]Laboratory of Experimental Ontogeny – LEO and

[2]SCIAN-Lab, ICBM, Faculty of Medicine, University of Chile; Biomedical Neuroscience Institute, Santiago, Chile. eduardopulgar.bioq@gmail.com; mconcha@med.uchile.cl

(201) PERSISTENT EXPOSURE OF ZEBRAFISH LARVA TO OXYTETRCYCLINE INDUCES CHRONIC INFLAMMATION AND DECREASES THE CELL REGENERATION CAPACITY. **Barros-Becker F[1].,** Pulgar A[1]., Romero J[2]., Feijóo CG[1]. 1Departamento de Ciencias Biológicas, Universidad Andrés Bello. 2INTA, Universidad de Chile. fbarros86@gmail.com

(202) ROLE OF THE CHEMOKINE SDF1A IN COLLECTIVE CELL MIGRATION AND AXON PATHFINDING IN ZEBRAFISH. **Mardones, Camila[1]**; Valdivia, Leonardo[1]; Young, Rodrigo[2]; Wilson, Stephen[2]; Allende, Miguel[1]. [1]FONDAP Center for Genome Regulation, Universidad de Chile. [2]University College London, UK. camilamardonesk@gmail.com

(203) *Prokineticin2* DISRUPTION IN ZEBRAFISH RESULT IN KALLMANN SYNDROME RELATED ANOMALIES. **Joaquín Letelier**[1,2] & Kathleen Whitlock[1,2]. [1]Centro Interdisciplinario de Neurociencias Valparaíso, [2]Center for Genomics of the Cell, Facultad de Ciencias, Universidad de Valparaíso. joaquin.letelier@cinv.cl

(204) MACROH2A2 AFFECTS CELL PROLIFERATION IN RETINAL PROGENITORS. **Guajardo L**. and Reyes A.E. Laboratorio de Biología del Desarrollo, Facultad de Ciencias Biológicas, Universidad Andrés Bello, Av. República 217, piso3. Santiago, Chile. arielreyes@unab.cl

(205) *Enterctopus megalocyathus* EYE LENS STRUCTURE: AN EVIDENCE OF GROWTH. **María José Villegas**, Erick Baqueiro and Rodolfo Paredes. Escuela de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andrés Bello. rparedes@unab.cl

(206) Akt Inh-IV INDUCES UPR INDEPENDENT OF Akt CLASSICAL PHOPHORYLATIONS. **Jennifer Alfaro[1]**; Daniela Perez[1], Carolina Urrutia[1], Matías Blaustein[2], Alejandro Colman-Lerner[2] and Sebastian Bernales[1]. [1]Fundación Ciencia para la Vida. [2]IFIByNE, Universidad de Buenos Aires-CONICET. jennifer.alfaro.formas@gmail.com

(207) FUNCTIONAL ANALYSIS FROM A PROTEOMIC AND YEAST TWO-HYBRID SCREENING FOR NEW IRE1ą INTERACTINĢ PROTEINS. **Diego Rodriguez,** Hery Urra, Daniel Henriquez, Tomas Vaisar, Christian Gonzalez-Billault, Laurie Glimcher and Claudio Hetz. [1]Biomedical Neuroscience Institute, Faculty of Medicine, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Santiago, Chile. chetz@med.uchile.cl

(208) SODIUM-DEPENDENT VITAMIN C TRANSPORTER 2 (SVCT2) AVAILABILITY AT PLASMA MEMBRANE IS IMPAIRED IN HUNTINGTON'S DISEASE MODELS. **[1]Carlos Kramm**, [1]Aníbal I. Acuña, [1]Magdalena Esparza, [2]Carlos Toro, [1]Ilona I. Concha, [2]Sebastián Brauchi y [1]Maite A. Castro. [1]I. Bioquímica y Microbiología, [2]I. Fisiología, UACh. macastro@uach.cl

(209) A ROLE OF MUTANT PROTEIN DISULFIDE ISOMERASES IN AMYOTHROPIC LATERAL SCLEROSIS PATHOGENESIS. **Woehlbier U**.[1,2,3], Gonzalez-Perez P.[4], Irrazábal T.[1,2,3], Colombo A.[1], Diaz A.[1] Sagredo A.[2], Armisen R.[2], Concha M.[2], Brown R.H.[4], Hetz C.[1,2,3]. [1]Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, Santiago, Chile, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Santiago, Chile, [3]Neurounion Biomedical Foundation, Santiago, Chile, [4]University of Massachusetts, Worchester, USA.

(210) UP-REGULATION OF NEUROTROPHIC FACTORS AND RELATED MOLECULES IN THE CONTRALATERAL MOTOR CORTEX AFTER UNILATERAL FOCAL STROKE. **Claudia Pissani[1,2]***, Katherine Stack[1,2]*, Macarena Vargas[1], Gareth I. Owen[1], Francisca C Bronfman[1,2]. [1]Physiology Department, Pontificia Universidad Católica de Chile. [2]Millennium Nucleus in Regenerative Biology (MINREB). *Both contributed equally. chpissan@uc.cl , stacklkatherine@gmail.com

(211) DOPAMINE RECEPTOR D3 FACILITATES INFILTRATION OF CD4+ T-CELLS IN THE CENTRAL NERVOUS SYSTEM AND NEURODEGENERATION OF DOPAMINERGIC NEURONS IN A MOUSE MODEL OF PARKINSON'S DISEASE. **Hugo Gonzalez[1,2]**, Carolina

Prado[1,2], Francisco Contreras[1,2],Rodrigo Pacheco[1]. [1]Fundación Ciencia para la Vida and [2]Universidad Nacional Andrés Bello. Santiago, Chile. h.gonzalez.v10@gmail.com

(212) IN THE SEARCH OF NOVEL FUNCTIONS FOR CDK5. Erick Contreras-Vallejos[1], **Cristina Olmos[1]**, Alex di Genova[2], Alejandro Maass[2], Elías Utreras[1,3], Ashok Kulkarni[3] and Christian Gonzalez-Billault[1].[1]Laboratory of Cell and Neuronal Dynamics, Department of Biology and ICDB, Faculty of Sciences, and [2]Mathematical Modeling Center (CMM), Faculty of Physical and Mathematical Sciences, Universidad de Chile. [3]NIDCR, NIH, Bethesda, USA. erickcontreras@gmail.com

(213) FUNCTIONAL ROLE OF THE UNFOLDED PROTEIN RESPONSE IN HUNTINGTON'S DISEASE. **Vidal, R.**[1,2,3], Figueroa A.[1,2,3] and Hetz, C.[1,2,3]. [1]Biomedical Neuroscience Institute, Faculty of Medicine, [2]Center for Molecular Studies of the Cell, Institute of Biomedical Sciences, University of Chile, Santiago, Chile, [3]Neurounion Biomedical Foundation, Santiago, Chile. renevidalg@gmail.com

(214) α-CHEMOKINES MODULATE DIFFERENTIATION OF NEURAL STEM CELLS FROM SPINAL CORD. **Cristi, F.**[1,2], Erices A.[1]. [1]Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, and [2]Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile. fcristi@bio.puc.cl

(215) PPAR BETA/DELTA AGONIST INDUCES CELL PROLIFERATION AND REGULATES SOX2 LEVELS IN MOUSE ADULT NEURAL PRECURSOR CELLS. **Bernal C.,** Araya C., Bronfman M. Departamento de Biología Celular y Molecular. Pontificia Universidad Católica de Chile. CARE-FONDAP. mbronfman@bio.puc.cl

(216) PROLIFERATION OF MURINE MIDBRAIN NEURAL STEM CELLS DEPENDS UPON AN ENDOGENOUS SONIC HEDGEHOG (Shh) SOURCE. **Víctor Hugo Cornejo**, Constanza Martínez, Pablo Lois and Verónica Palma**.** Laboratory of Stem Cells and Development, Facultad de Ciencias, Universidad de Chile. vcornejocorona@ug.uchile.cl

(217) SPINAL CORD REGENERATION IN *Xenopus* TADPOLES PROCEEDS THROUGH ACTIVATION OF SOX2 POSITIVE CELLS. Marcia Gaete, Rosana Muñoz, **Mauricio Moreno,** Natalia Sánchez, Ricardo Tampe, Esteban Contreras, Juan Larraín. Center for Aging and Regeneration, Millennium Nucleus in Regenerative Biology, Faculty of Biological Sciences, P. Universidad Católica de Chile. mmoreno777@gmail.com

(218) STUDY OF XtRic-8A DURING THE NEURAL DEVELOPMENT OF *X. tropicalis*. **Gabriela Toro**, Lester Riquelme, Juan Olate, and Marcela Torrejón. Laboratory of Molecular Genetics, Biochemistry and Molecular Biology Department, Universidad de Concepción, Chile. gabrielatoro@udec.cl

(219) THE NEOGENIN 1 (Neo1) RECEPTOR IS CONTROLLED IN SONIC HEDGEHOG (Shh) DRIVEN MEDULLOBLASTOMAS. **Luis A. Milla[1]**, Brandon Wainwright[2] and Verónica Palma[1]. [1]Laboratory of Stem Cells and Development. Faculty of Sciences, University of Chile, Santiago, Chile; [2]Institute for Molecular Bioscience, University of Queensland, Australia. lmillab@gmail.com

(220) LOCAL TRAFFICKING OF VOLTAGE-GATED SODIUM CHANNELS IN PERIPHERAL AXONS. **Carolina González[1,2]**, Felipe Court[3,4] and Andrés Couve[1,2]. [1]Physiology and Biophysics, ICBM and [2]Biomedical Neuroscience Institute (BNI), Facultad de Medicina, Universidad de Chile, Santiago, Chile. [3]Faculty of Biological Sciences, and [4]Millenium Nucleus for Regenerative Biology, P. Universidad Católica de Chile. carolags@gmail.com

(221) TRANSCRIPTIONAL REGULATION OF P2X3 RECEPTORS IN NOCICEPTIVE NEURONS. **Emilio Diaz**[1,3], Rodolfo Madrid[2], Martín Montecino[3], Brigitte van Zundert[3]. [1]Universidad de Concepción; [2]Universidad de Santiago de Chile; [3]Centro de Investigaciones Biomédicas, Universidad Andrés Bello.emdiaz@udec.cl

(222) ETHANOL EFFECT IN GLYCINE RECEPTOR IS INHIBITED BY Gbg BLOCKING PEPTIDES. **San Martín, L.**, Cerda, F., Aguayo, L., Guzmán, L. Department of Physiology, University of Concepcion, Concepcion, Chile. loresanmartín@udec.cl

(223) REGULATION OF ERC AGGREGATION BY SRPK2/3 IS MEDIATED THROUGH THE COILED-COIL (CC) DOMAINS. **Yocelin Cruz**, Dolly Araya, Cristina Araya, Natalia Oro, Fernanda Olivares, Jonathan Bijman, Pedro Zamorano, Viviana Torres. Laboratorio de Neurobiología, Facultad de Ciencias de la Salud, Universidad de Antofagasta. viviana.torres@gmail.com

(224) TGF-β1 MODULATES MAPK AND NF-κB SIGNALING BY INCREASING MKP-1 LEVELS IN GLIAL CELL CULTURES. **Betsi Flores** and Rommy von Bernhardi. Department of Neurology, Faculty of Medicine, Pontificia Universidad Católica de Chile. rvonb@med.puc.cl

(225) PLASTICITY OF ASTROCYTES AND ALDOC SECRETION FOLLOWING ANTIDEPRESSANT TREATMENT. **Alejandro Luarte,** Rodrigo Herrera-Molina, Mauricio Sandoval, Ursula Wyneken. Laboratorio de Neurociencias, Universidad de los Andes. uwyneken@uandes.cl

(226) MATERNAL THYROID HORMONE DEFICIENCY CAUSES ALTERATIONS IN NEURONS AND ASTROCYTES IN THEIR OFFSPRING. [1,2]**Pablo Cisternas*,** [1,2]Pablo Gonzalez*, [1,2]Gabriela Zuñiga*, [1,2]Claudia Cortés, [1,3]Leandro Carreño [1,3]Susan Bueno, [1,3,4]Alexis Kalergis, [1,2]Claudia Riedel. [1]Millennium Institute on Immunology and Immunotherapy. [2]Facultad de Ciencias Biológicas Universidad Andrés Bello. [3]Departamento de Genética Molecular y Microbiología, Facultad Ciencias Biológicas. Pontificia Universidad Católica de Chile. [4]Departamento de Reumatología, Facultad de Medicina. Pontificia Universidad Católica de Chile. *Authors contributed equally to this work. pab.cisternas@unab.cl

(227) IP3 DEPENDENT Ca^{2+} SIGNALS IN SKELETAL MUSCLE ARE TRIGGERED AT DIFFERENT MEMBRANE POTENTIALS THAN RYR DEPENDENT ONES. Casas, M. Jorquera, G. and **Jaimovich, E**. Centro de Estudios Moleculares de la Célula. ICBM, Facultad de Medicina, Universidad de Chile. mcasas@med.uchile.cl

(228) INVOLVEMENT OF P2 RECEPTORS IN THE MYOGENIC COMMITMENT ACQUISITION OF C_2C_{12} RESERVE CELLS. **Vega JL**[1,2], Cea L[2], Riquelme M[2], Sáez JC[2]. [1]Laboratorio de Fisiología Experimental (EPhyL), Universidad de Antofagasta. [2]Departamento de Fisiología, P. Universidad Católica de Chile. jlvegapi@gmail.com

(229) ROLE OF CONNECTIVE TISSUE GROWTH FACTOR IN THE DEVELOPMENT OF FIBROSIS IN SKELETAL MUSCLE DYSTROPHY. [1]**Morales MG**, [1,2]Cabello-Verrugio C, [3]Goldschmeding R, [1]Brandan E. [1]Department of Cell and Molecular Biology, CARE, P. Universidad Católica de Chile. [2]Center for Human Genetics, Facultad de Medicina, Clínica Alemana Universidad del Desarrollo. [3]Department of Pathology, University Medical Center Utrecht, The Netherlands. mgmorales@gmail.com

(230) ATP RELEASE AND IP_3 PRODUCTION ARE IMPORTANT REGULATORS OF SKELETAL MUSCLE PLASTICITY. **Jorquera G**., Almarza G., Jaimovich E., Casas M. Centro de Estudios Moleculares de la Célula, ICBM, Facultad de Medicina, Universidad de Chile, Chile. gjorquera@med.uchile.cl

(231) MUSCLE-SPECIFIC UBIQUITIN LIGASES INCREASE IN SKELETAL MUSCLE ATROPHY WAS PREVENTED BY ANGIOTENSIN 1-7. **Cabello-Verrugio, C.** Center for Human Genetics, Facultad de Medicina, Clínica Alemana Universidad del Desarrollo. ccabello@udd.cl

(232) THE Na^+ PUMP IS NOT PREFERENTIALLY FUELED BY GLYCOLYTIC ATP. [1,2]**Ignacio Fernández** and [1]L. Felipe Barros. [1]Centro de Estudios Científicos (CECs), Valdivia, & [2]P. Universidad Católica de Valparaíso. ifernandez@cecs.cl

(233) CHOLESTEROL INVOLVEMENT IN SKELETAL MUSCLE GLUCOSE TRANSPORT. **Llanos P.,** Contreras-Ferrat AE., Osorio-Fuentealba C., Espinosa, A, Hidalgo C. and Jaimovich E. CEMC & ICMB, Faculty of Medicine, Universidad de Chile. pllanos@med.uchile.cl

(234) APOER2 POLARIZED DISTRIBUTION AND THE ROLE OF A PROLINE-RICH INSERT IN ITS CYTOPLASMIC DOMAIN. Catalina Grabowski, Pamela Farfán, María Luisa Benítez, Patricia Burgos[&], Alfredo Cáceres* and **María Paz Marzolo**. Depto. Biología Celular y Molecular, Fac. Ciencias Biológicas y MINREB, P. Universidad Católica de Chile. &Universidad Austral de Chile, *Instituto Investigación Médica Mercedes y Martin Ferreyra Córdoba, Argentina. mmarzolo@bio.puc.cl

(235) STRUCTURAL AND FUNCTIONAL CHARACTERIZATION OF CARGO-BINDING SITES ON THE μ4-SUBUNIT OF ADAPTOR PROTEIN COMPLEX 4. **Breyan Ross[1],** Yimo Lin[1], Juan Bonifacino[2], James Hurley[3], Patricia Burgos[1], and Gonzalo Mardones[1]. [1]Instituto de Fisiología, Facultad de Medicina, Universidad Austral de Chile, Valdivia, Chile, and [2]Cell Biology and Metabolism Program, NICHD, and [3]Laboratory of Molecular Biology, NIDDK, NIH, Bethesda, MD, USA. gamardon@gmail.com

(236) POST-TGN BASOLATERAL SORTING INVOLVES AN INTERMEDIATE SUB-APICAL COMPARTMENT IN POLARIZED MDCK EPITHELIAL CELLS. **Claudio Retamal** and Alfonso González**.** Departamento de Inmunología Clínica y Reumatología, Fac. Medicina. Centro de Envejecimiento y Regeneración (CARE). Fac. Cs. Biológicas. Pontificia Universidad Católica de Chile.

(237) THE C-ABL TYROSINE KINASE PHOSPHORYLATES HDAC2 REGULATING ITS LEVELS: A NOVEL MECHANISM OF EPIGENETIC CONTROL. **González-Zúñiga M.[1]**, Contreras P.[1], Loyola A.[2], Álvarez A.R.[1]. 1.Cell Signaling Laboratory. Biological Sciences Faculty.Pontificia Universidad Católica de Chile. 2.Fundación Ciencia para la Vida. magonza1@uc.cl

(238) EPIGENETIC CONTROL THROUGH HISTONE AND DNA MODIFICATIONS OF THE OSTERIX GENE EXPRESSION DURING OSTEOBLAST DIFFERENTIATION. **Sepúlveda, H.,** Pihan, P. and Montecino, M. Center for Biomedical Research and FONDAP Center for Genome Regulation, Faculty of Biological Sciences and Faculty of Medicine, Universidad Andres Bello.

(239) BISPHOSPHONATES REGULATE OSTEOGENIC GENE EXPRESSION AND β-CATENIN ACCUMULATION IN OSTEOBLAST PRECURSOR CELLS. **Nicolás Méndez**, Ana María Pino, Juan Pablo Rodríguez, Mireya Fernández. Laboratorio de Biología Celular, INTA, Universidad de Chile. nmendezd@gmail.com

(240) OSTEOBLASTIC DIFFERENTIATION IS ENHANCED BY TOPOGRAPHICAL AND CHEMICAL MODIFICATION OF AN SCAFFOLD SURFACE. **Eduardo Roa,** Juan Reyes and Nelson Osses. Instituto de Química, Pontificia Universidad Católica de Valparaíso. nelson.osses@ucv.cl

(241) RELATIONSHIP BETWEEN APOPTOSIS AND INSERTION SITE IN ROTATOR CUFF COMPLETE TEARS. **Juan Pablo Ramírez[1]**, Francesca Bonati[1], Rodrigo Liendo[2], Francisco Soza[2] and Rodolfo Paredes[1]. [1]Laboratorio Salud de Ecosistemas, Escuela de Medicina Veterinaria, Facultad de Ecología y Recursos Naturales, Universidad Andrés Bello. [2]Centro de Investigaciones Médicas, Instituto Traumatológico CIMIT. rparedes@unab.cl

(242) SKELETAL MUSCLE OF INSULIN RESISTANCE MICE HAS HIGHER INSULIN-DEPENDENT H_2O_2 PRODUCTION DUE TO HIGHER NOX2 EXPRESSION. **[1]Espinosa A**, [2]Juretić N, [1]Contardo C and [2]Jaimovich E. [1]Escuela de Tecnología Médica and [2]Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile, Chile. bespinosa@med.uchile.cl

(243) DIABETIC NEPHROPATHY INDUCES OVEREXPRESSION OF MUSCLE GLYCOGEN SYNTHASE IN HUMAN AND RAT KIDNEY. **Rodrigo Gatica[*# ¥],** Romina Bertinat[#], Carme Caelles[¥], Felipe Slebe[¥], Joan Guinovart[¥], Juan Carlos Slebe[£] and Alejandro Yañez[#]. [*]Escuela de Graduados Facultad de Ciencias Veterinarias, [#]Laboratorio de Metabolismo y Biotecnología, [£]Laboratorio de Enzimología, Universidad Austral de Chile; Universidad San Sebastián, Sede Puerto Montt; [¥]Institute for Research in Biomedicine, Barcelona, España. rodrigogaticaguti@gmail.com

(244) GAP JUNCTIONS FORMED BY CONNEXINS AND PANNEXINS IN ADIPOSE TISSUE. **Benvenuto MA,** Fernández PE, Sáez JC. Departamento de Fisiología, Pontificia Universidad Católica de Chile. mabenvenuto@gmail.com

(245) CONNEXIN 39 FORMS FUNCTIONAL HEMICHANNELS, BUT NOT GAP JUNCTION CHANNELS, IN TRANSFECTED HELA CELLS. **Vargas A**[1], Cea L.A[1]., Vielma A[2]., Schmachtenberg O.[2], Sáez J.C.[1,2]. [1]Departamento de Fisiología, P. Universidad Católica, Santiago, Chile and [2]Centro Interdisciplinario de Neurociencias de Valparaíso, Universidad de Valparaíso, Valparaíso, Chile. anvargas@uc.cl

(246) BNP INHIBITS HUMAN MYOMETRIAL CONTRACTION VIA NPR-C THAT IN TURN TRIGGERS THE cAMP/PKA PATHWAY. **Delpiano AM**, Garmendia LR, Poblete JA, Cuello MA, Carvajal JA. Laboratorio de Medicina Materno Fetal. Departamento de Obstetricia y Ginecología, Escuela de Medicina. Pontificia Universidad Católica de Chile. delpiano@med.puc.cl

(247) RISK OF PREECLAMPSIA (PE) AND PRESENCE OF DIFFERENT POLYMORPHISM IN ENZIMES INVOLVED IN THE METHIONINE-HOMOCYSTEINE METABOLISM (MHM). **Valenzuela FJ**, Larrain R, Perez-Sepulveda A, Torres MJ, Guzman A, Ahumada V, Figueroa-Diesel H, Illanes S. Departamento de Obstetricia & Ginecología y Laboratorio de Biología de la Reproducción. Facultad de Medicina, Universidad de los Andes, Santiago. sillanes@uandes.cl (Sponsor: U. Wyneken)

(248) CHARACTERIZATION OF OLEOSOMES FROM *Gevuina avellana* AND *Madia sativa* SEEDS IN THE HUVEC CELL LINE. **Patricia Navarrete**[1,5], Francisca Acevedo[2,5], Oscar Valerio[3,5], Jorge Parodi[4], Fernando Romero[1]. [1]Center of Neurosciences and Peptides Biology- CEBIOR, BIOREN, University of La Frontera. [2]Center of Food Biotechnology and Bioseparations, BIOREN, University of La Frontera. [3]Center of Waste Management and Bioenergy, BIOREN, University of La Frontera. [4]Laboratory of Molecular Neurobiology, CARE, P. Universidad Católica de Chile. [5]Supported by PIA DI11-7001 of University of La Frontera. patricia.bq@gmail.com (Sponsor: E.O. Campos)

(249) UNRAVELING THE MYSTERIES OF SUPERRESOLUTION OPTICAL FLUCTUATION IMAGING (SOFI). **Felipe Santibáñez**[1,2], Omar Ramírez[1], Dirk Haehnel[3], Jörg Enderlein[3] & Steffen Härtel[1,2]. [1]SCIAN-Lab, [2]BNI, ICBM, Faculty of Medicine, U. of Chile. [3]III. Physikalisches Institut, Universität Göttingen, Germany. fsantibanez@med.uchile.cl

(250) CHARACTERIZATION OF THE HANTAVIRUS GC TRANSMEMBRANE DOMAIN. **[1]Sarno-Orellana, A.V.** [1]Carrasco, M. and [1,2]Tischler N.D. [1]Fundación Ciencia para la Vida and [2]Universidad San Sebastián. victoria.sarno@gmail.com

(251) ESSENTIAL RESIDUES AND FUNCTION OF THE HANTAVIRUS GC STEM REGION. **[1]Villalón, F.,** [1]Carrasco, M., [2]Monasterio, O. and [1,3]Tischler N.D. [1]Fundación Ciencia para la Vida, [2]Universidad de Chile, [3]Universidad San Sebastián. fvillalon@ug.uchile.cl

(252) *Trypanosoma cruzi* CALRETICULIN INHIBITS ENDOTHELIAL CELL MIGRATION *in vivo* IN A MAMMAL MODEL. **Leonora Duaso***, Juan Duaso , Francisca Coddou*, Katherine Weinberger*, Ismael Maldonado*, Galia Ramírez*, Ulrike Kemmerling , Arturo Ferreira*. *Immunology Disciplinary Program, Anatomy and Developmental Biology Program, Institute of Biomedical Sciences, Faculty of Medicine, University of Chile, Santiago, Chile. aferreir@med.uchile.cl

(253) *T. cruzi* DNA REPAIR ENZYMES TCAP1 AND TCAP2 ARE LOCALIZED IN THE NUCLEUS AND THEIR OVEREXPRESSION INCREASES EPIMASTIGOTE VIABILITY WHEN SUBMITTED TO OXIDATIVE STRESS. **Sofia Sepúlveda**, Lucía Valenzuela, Iván Ponce, José Delgadillo, Santiago Ramírez, Soledad Sierra, Paula Bahamondes, Natalia Muñoz, Ulrike Kemmerling, Norbel Galanti, Gonzalo Cabrera. Instituto de Ciencias Biomédicas, Facultad de Medicina, Universidad de Chile. se_sepulveda@med.uchile.cl

(254) ASSOCIATION BETWEEN MUC1 SPLICE VARIANTS FROM SALIVARY GLANDS AND MOUTH DRYNESS. **Sung HH,** González S, Aguilera S, Bahamondes V, Castro I, Barrera MJ, Leyton C, Urzúa U y González MJ. ICBM,Facultad de Medicina, Universidad de Chile. sunghsieh@gmail.com

(255) PRESENCE OF CALRETICULIN IN *Triatoma infestans* SALIVARY GLAND. **Weinberger, K**.[*], Coddou, F.[*], Duaso, L.[*], Valck, C.[*], Ramírez, G.[*], Aguilar L.[*], Maldonado I.[*], Zulantay I. , Apt W. , Ferreira A.[*]. Disciplinary Immunology[*] and Cellular Biology Programs, Biomedical Sciences Institute, Faculty of Medicine, University of Chile. aferreir@med.uchile.cl

FRIDAY, NOVEMBER 4th, 2011

09:00 – 10:30 SYMPOSIUM
"MEMBRANE TRAFFICKING AT SYNAPSES: FROM NEURONAL TRANSMISSION TO IMMUNITY (II)"
Calbuco Room - Chair: Ana Maria Lennon

ROLE AND CONTROL OF THE FORMATION OF THE IMMUNOLOGICAL SYNAPSE IN T LYMPHOCYTES. Armelle Bohineust[1,2], Karine Chemin[1,2], Julien Husson[1,3], Marie Tourret[1,2], Stéphanie Dogniaux[1,2], Paola Larghi[1,2], Nelly Henry[1,3] and **Claire Hivroz[1,2].** [1]Institut Curie, Centre de Recherche, Paris F-75248, France. [2]INSERM Unité 932, Immunité et Cancer, Paris, France. [3]CNRS UMR 168, Paris, France.

Sec22b CONTROLS THE RECRUITMENT OF ENDOPLASMIC RETICULUM TO PHAGOSOMES IN DENDRITIC CELLS: FUNCTIONAL CONSEQUENCES FOR CROSS PRESENTATION AND PHAGOSOME MATURATION. Ignacio Cebrian[1], Geraldine Visentin[1], Nicolas Blanchard[2], Mabel Jouve[5], Alexandre Bobard[3], Catarina Moita[4], Jost Enninga[3], Luis F. Moita[4], Ariel Savina and **Sebastian Amigorena[1].** [1]Institut Curie, INSERM U932, Immunité et Cancer, 26 rue d'Ulm, 75248 Paris, Cedex 05, France. [2]Centre de Physiopathologie de Toulouse-Purpan INSERM UMR1043-CNRS UMR5282, Université de Toulouse, France. [3]Institut Pasteur; Dynamique des Interactions Hôte-Pathogène, Paris, France. [4]Cell Biology of the Immune System Unit, Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, 1649-028 Lisboa, Portugal. [5]Institut Jacques Monod, UMR7592 CNRS/Université Paris Diderot, ImagoSeine-Plateforme de Microscopie Electronique, France.

FROM HIV-1 INFECTION, TO PRODUCTION OF VIRAL PARTICLES AND CELL-TO-CELL TRANSMISSION VIA VIROLOGICAL SYNAPSES. Raphaël Gaudin[1,2], Stefano Berre[1,2], Bruna Cunha de Alencar[1,2], François-Xavier Gobert[1,2], Mabel Jouve[3] and **Philippe Benaroch[1,2].** [1]Institut Curie, Centre de Recherche, Paris F-75248, France. [2]INSERM Unité 932, Immunité et Cancer, Paris, France. [3]Institut Jacques Monod, UMR 7592, CNRS /Université Paris Diderot, 75013, Paris, France.

SYMPOSIUM NUCLEO MILENIO EN BIOLOGIA REGENERATIVA (MINREB)
P. UNIVERSIDAD CATOLICA DE CHILE
Tronador Room - Chair: Francisca Bronfman

"AXONAL CELL BIOLOGY AND REGENERATION"

NEUROTROPHIN TRAFFICKING IN AXON GROWTH. Rejji Kuruvilla, Daniel Bodmer, and Maria Ascano. Department of Biology, Johns Hopkins University, Baltimore, MD 21218.

AXONAL RETROGRADE KILLING BY NEUROTROPHINS. Francisca C Bronfman and Claudia Escudero. Millennium Nucleus in Regenerative Biology (MINREB), Facultad de Ciencias Biológicas. Pontificia Universidad Católica de Chile, Chile.

MICROTUBULE TETHERING BY DYNEIN AND NCAM FACILITATES SYNAPTIC STABILIZATION. Eran Perlson[1,2], Adam G. Hendricks[1], Jacob E. Lazarus[1], Mariko Tokito[1], Yale E. Goldman[1] & Erika L. F. Holzbaur[1]. [1]University of Pennsylvania School of Medicine, [2]Tel-Aviv University Sackler Faculty of Medicine.

10:30 – 11:30 Coffee Break – Exhibitors
Convention Center Foyer

11:30 – 13:30 Oral Presentations VI
Volcanes Room - Chair: Ariel Reyes and Co-Chair: Manuel Kukuljan

SEARCHING FOR PHYSIOLOGICAL STIMULI TO ENHANCE ADULT HIPPOCAMPAL NEUROGENESIS IN A MICE MODEL OF ALZHEIMER'S DISEASE. Lorena Varela-Nallar, Ana C. Abbott, Macarena Rojas-Abalos, Florencia C. Aranguiz, Cheril Tapia-Rojas and Nibaldo C.

Inestrosa. Centro de Envejecimiento y Regeneración (CARE), Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, P. Universidad Católica de Chile, Santiago, Chile. lpvarela@uc.cl

NEURAL PROGENITORS IN THE OLFACTORY SENSORY SYSTEM. Maegan V. Harden[1], Luisa Pereiro[4], Mirana Ramialison[2], Joachim Wittbrodt[2], Megana K. Prasad[3], Andrew McCallion[3], Jorge Torres4, and **Kathleen E. Whitlock[4]**. 1.Department of Molecular Biology & Genetics, Cornell University, NY; 2.Institute of Zoology, Heidelberg University, Germany; 3.McKusick-Nathans Institute of Genetic Medicine, Maryland, USA; 4. Interdisciplinary Center for Neuroscience, Universidad de Valparaiso, Valparaíso, Chile. kathleen.whitlock@gmail.com

XtRic-8A, A PROTEIN REQUIRED FOR PROPER NEURAL CREST FORMATION. Jaime Fuentealba, Juan Olate and **Marcela Torrejón.** Laboratory of Molecular Genetics, Biochemistry and Molecular Biology Department, University of Concepción, Chile. matorrejon@udec.cl

CoREST/LSD1 CONTROL THE DEVELOPMENT OF PYRAMIDAL CORTICAL NEURONS. **Kukuljan, M**., Cánovas J., Berndt F.A., Fuentes, P. Programa de Fisiología y Biofísica, ICBM, e Instituto Milenio de Neurociencias Biomédicas, Facultad de Medicina, Universidad de Chile. kukuljan@med.uchile.cl

ANTI-ANGIOGENIC PROPERTIES OF COAGULATION RELATED PROTEASES. **Lange S**[1,2], Cautivo K[2], Elliot M[3] , Kalergis A[1,2], Palma V[3] & Owen GI[1,2]. [1]Faculty of Biological Sciences, PUC, [2]The Biomedical Research Consortium (BMRC) and [3]Laboratory of Stem Cells and Development, Fac. of Science, U. de Chile. mslange@uc.cl

THE HYPOXIA FACTOR Hif-1α IS ESSENTIAL FOR NEURAL CREST MIGRATION. **Elías H. Barriga[1,2]**, Roberto Mayor[2] y Ariel E. Reyes[1]. [1]Laboratorio de Biología del Desarrollo, Departamento Ciencias Biologicas, UNAB, Chile. [2]Department of Cell and Developmental Biology, UCL, London, UK. arielreyes@unab.cl

GAP JUNCTIONS PROMOTES THE COMMUNICATION BETWEEN HUMAN NATURAL KILLER CELLS WITH DENDRITIC AND TARGET CELLS. **Andrés Tittarelli**[(1)], Marcela Farias[(2)], Ariadna Mendoza-Naranjo[(3)], Benedict Chambers[(4)], Andreas Lundqvist[(5)], Flavio Salazar-Onfray[(1)]. 1:Millennium Institute on Immunology and Immunotherapy. 2:Faculty of Odontology, University of Chile. 3:UCL Cancer Institute, UK. 4:Center for Infectious Medicine, Karolinska Institute. 5:Cancer Center, Karolinska Institute, Sweden. tittarelli@gmail.com

CAVEOLIN-1 INHIBITS TRANSCRIPTION BY HYPOXIA INDUCIBLE FACTOR-1A IN TUMOR CELLS. **Sanhueza C.**,[1] Lladser, A.,[2] Valenzuela M.,[1] Nuñez S.,[1] Diaz M.I.,[1] Leyton L.,[1] Quest A.F.G.[1] [1]Laboratorio de Comunicaciones Celulares, Centro de Estudios Moleculares de la Célula, Facultad de Medicina, Universidad de Chile. [2]Laboratory of Gene Immunotherapy, Fundación Ciencia para la Vida, Santiago. aquest@med.uchile.cl

13:30 – 15:30 Lunch

16:30 – 18:00 SYMPOSIUM FODECYT (1100027 AND 1100896)
UNIVERSIDAD AUSTRAL DE CHILE
Calbuco Room - Chair: Patricia Burgos

"A BUMPING TOUR UNRAVELING THE MAGICAL MYSTERIES OF THE SECRETORY PATHWAY"

MEMBRANE PROTEIN BIOSYNTHESIS AND QUALITY CONTROL. **Ramanujan Hegde,** MRC Laboratory of Molecular Biology Cambridge, United Kingdom, CB2 0QH.

SIGNAL-ADAPTOR INTERACTIONS THAT MEDIATE POLARIZED SORTING IN NEURONS. **Juan S. Bonifacino.** Cell Biology and Metabolism Program, Eunice Kennedy Shriver, National Institute of Child Health and Human Development, National Institute of Health, Bethesda, Maryland, USA.

NIPPED IN THE BUD: THE STRANGE WAYS THAT ESCRTS SEVER MEMBRANES. **James H. Hurley**, Laboratory of Molecular Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, U. S. Department of Health and Human Services, Bethesda, MD 20892.

SYMPOSIUM INSTITUTO MILENIO DE INMUNOLOGIA E INMUNOTERAPIA
UNIVERSIDAD NACIONAL ANDRES BELLO
Tronador Room - Chair: Claudia Riedel

"IMMUNOLOGICAL BASES OF THE INFLAMMATION AT THE CENTRAL NERVOUS SYSTEM"

NOVEL CELLULAR COMMUNICATION SYSTEMS IN HIV INDUCED NEUROINFLAMMATION AND TOXICITY. **Eugenin, Eliseo**. Department of Pathology, Albert Einstein College of Medicine, Bronx, New York, NY, 10461, USA.

MATERNAL THYROID HORMONE DEFICIENCY INCREASES CENTRAL NERVOUS SYSTEM DAMAGE IN THE OFFSPRING SUFFERING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS. **Claudia Riedel**, Universidad Andrés Bello.

IMMUNE SIGNALING IN NEURONAL DEVELOPMENT. **Helene Boudin**, Inserm 643, Nantes, France.

MECHANISMS OF LEUKOCYTE TRANSMIGRATION ACROSS THE BLOOD BRAIN BARRIER: IMPLICATIONS FOR NEUROAIDS AND OTHER CNS INFLAMMATORY PROCESSES. **Joan W. Berman**, Ph.D., Departments of Pathology and Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY, USA.

18:00 – 19:00 **Coffee Break – Exhibitors**
Convention Center Foyer

19:00 – 20:00 **PLENARY LECTURE SOCIEDAD DE BIOLOGIA CELULAR DE CHILE**
Volcanes Room - Chair: Maria Rosa Bono

HOW SCIENCE IMPACTS SOCIETY: THE ROLE OF KNOWLEDGE DRIVEN RESEARCH AND ENTREPRENEURSHIP. **Pablo Valenzuela.** Fundación Ciencia para la Vida, Santiago, Chile.

20:00 **AWARDS CEREMONY**
Volcanes Room
Nikon - Loncotec: **Best Images in Cell Biology**
Genexpress: **Best Presentations in Oral and Poster Communications**

21:00 **Closing Dinner**