



22-25 DE SEPTIEMBRE DE 2015

XXXVIII Reunión Anual Sociedad de Bioquímica y Biología Molecular de Chile
HOTEL DREAMS, LOS VOLCANES * PUERTO VARAS

SEPTIEMBRE 2015

	Tuesday 22		Wednesday 23		Thursday 24		Friday 25
10:30 - 13:00	Registration	09:00 - 10:45	Oral Session 3 Oral Session 4	09:00 - 10:45	Oral Session 5 Oral Session 6	10:00 - 12:00	Symposium 7 Symposium 8
13:00 - 14:30	Lunch	10:45 - 11:15	Coffee - Break	10:45 - 11:15	Coffee - Break	12:00 - 13:00	Awards
14:45 - 16:30	Oral Session 1 Oral Session 2	11:15 - 13:15	Symposium 3 Symposium 4	11:15 - 13:15	Symposium 5 Symposium 6		
16:30 - 17:00	Coffee - Break	13:15 - 15:00	Lunch	13:15 - 15:00	Lunch		
17:00 - 19:00	Symposium 1 Symposium 2	15:30 - 17:15	New Memebers Session1 New Memebers Session2	15:00 - 16:00	SBBM Members Meeting		
19:15 - 19:30	Opening Ceremony	17:15 - 19:15	Poster Session I and Coffee Break	16:00 - 17:15	Severo Ochoa Lecture: Andrés Aguilera		
19:30 - 20:45	Opening Lecture Paul Anderson	19:30 - 20:45	Oswaldo Cori Lecture: Rafael Vicuña	17:15 - 19:15	Poster Session II and Coffee Break		
20:45 - 21:00	DataBlitz Session1	20:45 - 21:00	DataBlitz Session2	19:30 - 20:45	PABMB Lecture: Melissa Moore		
21:00 - 22:30	Welcome Cocktail			21:30 - 24:00	Gala Dinner and Party		

PROGRAM

Opening Lecture:

Paul Anderson

Harvard Medical School, U.S.A

<http://anderson.bwh.harvard.edu/index.html>

Oswaldo Cori Lecture:

Rafael Vicuña

P. Universidad Católica de Chile

<http://postgrado.bio.uc.cl/facultad/profesores/rafael-vicuna/>

Severo Ochoa Lecture:

Andres Aguilera

CABIMER, Universidad de Sevilla, Spain

www.cabimer.es/web/en/dept/mb/genome-instability/

PABMB Lecture:

Melissa Moore

UMASS Medical School, U.S.A

www.umassmed.edu/moorelab/

Oral Sessions: *to be selected from the submitted abstracts*

Tuesday 22

Symposium 1

ACCDIS Symposium on Molecular Mechanisms
of Chronic Diseases

Chair: Lorena García, Universidad de Chile

Alejandra San Martín

Department of Medicine, Emory University, U.S.A
Cytoskeleton regulation and its role in vascular biology.

Alejandro Yañez

Instituto de Bioquímica y Microbiología, Universidad Austral
de Chile, Chile
*Preclinical Studies for Sodium Tungstate and its effect in diabetic
neuropathy.*

Mario Chiong

Advanced Center for Chronic Diseases (ACCDiS), Universidad
de Chile, Chile.
*Metabolic regulation of vascular smooth muscle cell
dedifferentiation.*

Lorena García

Advanced Center for Chronic Diseases (ACCDiS), Universidad
de Chile, Chile.
VCAM-1: a novel biomarker in cardiovascular diseases.

Symposium 2

Microbial Pathogenesis

Chair: Luis F. Larrondo, P. Universidad Católica de Chile

Carlos Santiviago

Dpto de Bioquímica y Biología Molecular, Universidad de
Chile, Chile
*Genome-wide identification of genes required for Salmonella to
survive within the host*

Marcio Rodrigues

Center for Technological Development in Health (CDTS) .
Oswaldo Cruz Foundation, Brazil
*Role of an autophagy regulator in the pathogenesis of
Cryptococcus neoformans*

Chuck S. Farah.

Departamento de Bioquímica Universidad de Sao Paulo,
Brazil
Bacterial Warfare: A new role for the Type IV Secretion System

Paulo Canessa

Millennium Nucleus for Fungal Integrative and Synthetic
Biology, P. Universidad Católica, Chile
*Employing Botrytis cinerea, Arabidopsis thaliana and Solanum
lycopersicum to understand environmental prompts as modifiers
of the host-pathogen interaction*

Wednesday 23

Symposium 3

Central dogma at the single molecule level
Chair: Christian A.M. Wilson, Universidad de Chile

Daniel Guerra

Universidad Peruana Cayetano Heredia, Perú
Transcription regulation through changes in the DNA - RNA polymerase contacts.

Daniel Goldman

University of California, Berkeley. U.S.A
Mechanical force releases nascent chain-mediated ribosome arrest.

Jaime Andrés Rivas-Pardo

Columbia University, New York, U.S.A
Mechano-Physiology of the giant muscle protein titin

Rodrigo Maillard

Georgetown University, U.S.A
The ClpXP protease unfolds substrates using a constant rate of pulling but different gears.

Symposium 4

Epigenetics and Chromatin Structure:
from Cell Function to Biomarkers
Chair: Paola Casanello, P. Universidad Católica de Chile

Gernot Längst

Lab of Chromatin Dynamics and Nuclear Architecture.
University of Regensburg. Germany.
TNF α signalling primes chromatin for NF- κ B binding and induces rapid and widespread nucleosome repositioning

Martín Montecino

Center for Biomedical Research and FONDAPE Center for Genome Regulation. UNAB. Chile
Epigenetic control of cell fate

Bernardo Krause

Facultad de Medicina. P. Universidad Católica de Chile. Chile.
Fetal programming of endothelial function by epigenetic mechanisms

Alejandro Corvalán

Facultad de Medicina P. Universidad Católica de Chile. Chile.
Epigenetic alterations and potential biomarkers in digestive tumors

Thursday 24

Symposium 5

Getting the Message: the Complex Life of Eukaryotic mRNAs
Chair: Ricardo Soto-Rifo, Universidad de Chile

Andrew Mouland

McGill University. Canada
HIV-1-mediated endolysosome translocation: Impact on viral RNA localization and host metabolism

Emiliano Ricci

CIRI, ENS-Lyon. France
RIPit-seq reveals the endogenous RNA-target sites of DEAD-box protein 3 (DDX3)

Alfredo Castello

Department of Biochemistry. University of Oxford. UK
Proteome-wide determination of RNA-binding domains by RBDmap

Ricardo Soto-Rifo

Instituto de Ciencias Biomédicas. Universidad de Chile. Chile
From the nucleus to the ribosome: understanding the mechanisms controlling gene expression from the HIV-1 unspliced mRNA

Symposium 6

Green Biology: understanding molecular mechanisms in plant systems
Chair: Claudia Stange, Universidad de Chile

María Josefina Poupin

Facultad de Ingeniería y Ciencias, Universidad Alfonso Ibáñez.
Bacteria can modulate a plant life cycle: beneficial interaction between Arabidopsis thaliana and the rhizobacteria Burkholderia phytofirmans PsJN

Simón Ruiz

Instituto de Biotecnología y Biología Vegetal, Universidad de Talca.
Involvement of the intracellular vesicle trafficking in the plant tolerance to salt stress

Ingo Dreyer

Centro de Bioinformática y Simulación Molecular (CBSM) Universidad de Talca
Long distance K⁺ transport in plants

Andrea Vega

Depto. Ciencias Vegetales, Facultad de Agronomía e Ingeniería Forestal, P. Universidad Católica de Chile. Chile
Integration of nitrogen gene networks and plant defense responses

Friday 25

Symposium 7

Key Roles of Autophagy in Chronic Diseases

Chairs: Eugenia Morselli, P. Universidad Católica de Chile
Alfredo Criollo, Universidad de Chile

Zhao Wang

Department of Internal Medicine. UT Southwestern Medical Center, Dallas, TX-U.S.A

Pathological Cardiac Remodeling: Role of the Unfolded Protein Response and Autophagy

Eugenia Morselli

Dpto. Biología Celular y Molecular. Pontificia Universidad Católica de Chile. Chile

Inhibition of hypothalamic autophagy and induction of inflammation by long-term high fat diet exposure

Alfredo Criollo

Universidad de Chile. Chile

Autophagy in cardiovascular diseases

Patrice Codogno

Institut Necker Enfants-Malades. University of Paris. France
Autophagy and plasma membrane domains.

Symposium 4

When Biology Meets Computers: Oncodomains, Microbiomes and Allosteric networks

Chairs: Daniel Almonacid, UNAB
Cesar Ramírez-Sarmiento, Universidad de Chile

Daniel Almonacid

Universidad Andrés Bello, Chile

Sequence similarity networks: Phylogenomics tool for studying sequence relationships across large datasets

Zac Apte

uBiome U.S.A

Your microbiome and citizen science, science at scale

Ricardo Armisen

Pfizer Chile - Center of Excellence in Precision Medicine, Chile
Transcriptome editing promotes breast cancer progression through the regulation of cell cycle and DNA repair

Elizabeth Komives

University of California San Diego, U.S.A
Allosteric Networks in Thrombin