



VI INTERNATIONAL SYMPOSIUM
**SCIENCE & FRIENDSHIP:
THE NORTH MEETS THE SOUTH**

November 8th and 9th, 2010
Auditorium Enrique Méndez C., Fundación Ciencia para la Vida
Zañartu 1482, Santiago

PROGRAM MONDAY NOVEMBER 8TH

Chair: Sebastián Bernales

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| 9:00 | Introduction. Welcome to all | Sebastián Bernales |
| 9:10 | “On the rise of oxygen in the atmosphere 2.45 billion years ago and the consequences” | John Abelson |
| 10:00 | “Mitochondrial non-coding RNAs: cell proliferation and cancer” | Luis Burzio |
| 11:20 | Coffee break and set up of posters | |
| 11:30 | Poster session (half of posters) | Coordinators: Nicole Halcartegaray, and Hugo Uribe |
| 13:00 | Lunch | |
| 15:00 | Student talks
(20 min talk + 5 min for questions) | Chair: Monica Rodrigo-Brenni |
| | - “Mechanical Forces Spatially Restrict Signals to the Leading Edge during Neutrophil Migration” | Andrew Houck |
| | - “Differential regulation of Notch ligands on dendritic cells upon interaction with T helper cells” | Daniela Sauma |
| 15:50 | Coffee break | |
| 16:20 | “Challenges for life at pH1: Terrestrial evolution and Extra-terrestrial life signatures” | David Holmes |
| 17:10 | “A pathogenic rope-a-dope strategy used by TB bacteria in the battle with the immune system” | Jeffrey Cox |



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PROGRAM TUESDAY NOVEMBER 9TH

Chair: Sebastián Bernales

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|-------|---|--|
| 9:00 | Welcome
"Research and activities at the host institutions:
Fundacion Ciencia para la Vida" | Pablo Valenzuela |
| 9:30 | "Skeletal muscle Fibrosis; New insights about the
role of CTGF and possible therapies" | Enrique Brandan |
| 10:20 | "Novel insights into the regulation of mRNA splicing" | Christine Guthrie |
| 11:15 | Coffee break and set up of posters | |
| 11:30 | Poster session (half of posters) | Coordinators: Nicole Halcartegaray
and Hugo Uribe |
| 13:00 | Lunch | |
| 15:00 | Student talks
(20 min talk + 5 min for questions) | Chair: Monica Rodrigo-Brenni |
| | - "Studying the cell entry of hantaviruses through
the use of pseudotyped lentiviral vectors" | Nicolás Cifuentes |
| | - "An organizing principle of the human epigenome:
reciprocal intronic and exonic histone modifications" | Jason Huff |
| 15:50 | Coffee break | |
| 16:20 | "Genetic adjuvants for cancer DNA vaccines" | Alvaro Lladser |
| 17:10 | "Engineering cells to death" | Jim Wells |



INTERNATIONAL MEETING

**SCIENCE & FRIENDSHIP VI:
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LIST OF POSTER PRESENTATIONS
UCSF

MONDAY NOVEMBER 8, 2010

First author	Title	N°
Erik Chow	The M. tuberculosis virulence factor MmpL4 is required for resistance to reactive oxygen species	1
Sheel Dandekar	Studying cellular polarity using subcellular control of signaling	2
Sai Duriseti	Antagonistic anti-uPAR Antibodies as Imaging and Therapeutic Agents for Triple-Negative Breast Cancer	3
Eleanor Fraser	Role of main and accessory olfactory systems in female behaviors	4
Jennifer Garcia	Combinatorial, site-specific requirement for heterochromatic silencing factors in the elimination of nucleosome-free regions	5
Brooke Gardner	The Unfolded Protein Response in yeast is activated by direct binding of Ire1 to Misfolded proteins	6
Lauren Goins	Multiple nonmuscle tropomyosin variants perform distinct functions in Drosophila melanogaster	7
Scott Hansen	VASP is a processive actin polymerase that requires monomeric actin for barbed end association	8
Andrew Houck	Mechanical Forces Spatially Restrict Signals to the Leading Edge during Neutrophil Migration	9
Jason Huff	An organizing principle of the human epigenome: reciprocal intronic and exonic histone modifications	10
Jessica Ingram	Expansion of the cercarial elastase gene family in schistosome parasites confers diverse protease activity and may influence host specificity	11



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**SCIENCE & FRIENDSHIP VI:
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LIST OF POSTER PRESENTATIONS
UCSF

TUESDAY NOVEMBER 9, 2010

First author	Title	Nº
Marlisa Khodabaccus	Glucocorticoid receptor transcriptional regulation of the circadian clock gene PER1	12
Mark Kunitomi	RNAi mediated host-virus interactions in <i>Drosophila melanogaster</i>	13
Nicholas Lyons	Cdk1 is a Crucial Modulator of Chromosome Cohesion	14
Stephen Naylor	Failure to reverse Cdk-dependent phosphorylation of microtubule-associate spindle protein Stu1 disrupts mitotic progression in budding yeast	15
Jeremy Phillips	Structure-function Map for a Heptameric Component of the Nuclear Pore Complex	16
David Pincus	BiP binding to the ER-stress sensor Ire1 tunes the homeostatic behavior of the unfolded protein response	17
Nicole Santos	Investigating Gli2 protein dynamics using targeted modification of mouse embryonic stem cells via the Floxin system	18
Willian Schachterle	Transcriptional regulation of GATA4 in the developing cardiovascular system	19
Peter Skewes-Cox	New Metrics and tolls for the evaluation of genome assemblies	20
Vanessa Strings	Identification and Characterization of Viral-Host Interactions in Poliovirus Infected Cells	21
Simón Vidal	Crosstalk Prevention by Spatial Segregation in MAPK Cascades	22



INTERNATIONAL MEETING
**SCIENCE & FRIENDSHIP V:
THE NORTH MEETS THE SOUTH**

LIST OF POSTER PRESENTATIONS
FCPV AND MIFAB INSTITUTE

MONDAY NOVEMBER 8, 2010

First author	Title	N°
Rodrigo Acuña	Studying the hantavirus fusion process	1
Francisca Alvarez	Acetylation of the histone H4 regulates its interaction with importin4	2
Andrés Aranda	Role of IRE1 in prostate cancer cell survival during Unfolded Protein Response	3
Mauricio Arenas	Profiling of amino acids surrounding specific ligands in Protein Data Bank crystallographic data	4
Armando Azúa	Surviving in the driest desert of the world: How photosynthesize with (almost) no water at the Atacama Desert	5
Elias H. Barriga	Hif-1-induced neural crest cells migration in zebrafish	6
Gonzalo Barriga	Inhibition of the hantavirus-cell membranes fusion process	7
Verónica Burzio	The antisense noncoding mitochondrial RNA as a molecular therapeutic target in a murine model of melanoma	8
Francisco Contreras	Modulation of dendritic cell function by dopamine receptor D3	9
Fancisco Duarte	Analysis of proteins from extremely acidophilic microorganisms	10
Javiera Echenique	Antisense ODNs against the non-coding mitochondrial RNAs in murine myeloma cells affects viability and cell proliferation	11
Cecilia Gamboa	Characterization of <i>Eucalyptus globulus</i> vacuolar pyrophosphatase 1 (EVP1) in plants subjected to abiotic stress	12
Laura Guajardo	MacroH2A2 knockdown affects retinogenesis during zebrafish embryonic development	13
Matías Gutiérrez	siRNA-mediated gene silencing in the phytopathogen <i>Botrytis cinerea</i> , an exogenous administration approach	14
Nicole Halcartégaray	Characterization of lymphoid subpopulations of Atlantic salmon (<i>Salmo salar</i>) using monoclonal antibodies	15
Roddy Jorquera	Comparative analysis of functions encoded by eukaryotic intronless genes	16
Daniel Moena	Differential contribution of p160/SRC and DRIP/TRAP co-activator complexes during vitamin D- dependent up-regulation of target genes in osteoblastic cells	17



INTERNATIONAL MEETING
**SCIENCE & FRIENDSHIP V:
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LIST OF POSTER PRESENTATIONS
FCPV AND MIFAB INSTITUTE
TUESDAY NOVEMBER 9, 2010

First author	Title	N°
Marisol Morales	Modulation of the UPR by small molecules and its effects on normal cell viability	18
Claudia Muñoz	<i>Vitis vinifera</i> genome annotation improvement using next-generation sequencing technologies and NCBI public data	19
Francisca Muñoz	Role of the acetylation of cytosolic histones H3/H4 in the nuclear import	20
Daniela Pérez	Effects of knocking down master regulators of the UPR	21
Philippe Pihán	Epigenetic silencing of the bone-master gene RUNX2 during neuronal differentiation	22
Carolina Prado	Dopamine facilitates inflammatory function of dendritic cells by stimulating the D5 receptor	23
Paz Reyes	Altered microenvironment from lupic mice affects development of systemic lupus erythematosus	24
Gonzalo Riadi	High Throughput Discovery and characterization of Mobile Repetitive Elements in more than 1000 Genomes	25
Alexis Rivas	Diagnostic and therapy of bladder cancer: non coding mitochondrial RNAs as molecular tool	26
Solange Rubio	Characterization of lymphoid markers in different tissues of zebrafish	27
Hugo Sepúlveda	Epigenetic silencing of the Osterix gene during commitment to non-osteoblastic lineages	28
Amir Shmaryahu	Small regulatory RNAs in <i>Acidithiobacillus ferrooxidans</i> : case studies of 6S RNA and <i>Frr</i>	29
Juan A. Ulloa	Regulation of <i>nkx2.5</i> and <i>mef2c</i> by Hif-1 α LPHA and Hdac9 during cardiogenesis in zebrafish	30
Gonzalo Ureta	Effects of the small molecule translocon inhibitor CT8 on the unfolded protein response	31
Catalina Urrejola	Comparative genomic analysis of the RNA interference pathways in five ascomycete fungi: Two conserved post-transcriptional gene silencing pathways	32
Jorge Valdes	A phylogenomic approach to understanding-metabolic potential and diversification in biomining microorganisms	33
Manuel Varas	Lentivirus-mediated shRNA interference targeting noncoding mitochondrial RNA induces death of cancer cells <i>in vitro</i>	34