



III INTERNATIONAL SYMPOSIUM

SCIENCE & FRIENDSHIP: THE NORTH MEETS THE SOUTH



October 16th and 17th, 2007

Auditorium Enrique Méndez C., Fundación Ciencia para la Vida
Zañartu 1482, Santiago

PROGRAM OCTOBER 16TH

- 9:00 Introduction. Welcome to all
"Research and activities at the host institutions:
The MIFAB and Fundación Ciencia para la Vida" Pablo Valenzuela
- 10:00 "Alternate open reading frames: a bioinformatics
nightmare but a potential goldmine for gene
evolution" David Holmes
- 11:00 Coffee break and
set up of posters
- 11:30 Poster session (half of posters) Coordinators:
Consuelo Bruno
and Esteban Engel
- 12:30 Lunch
- 14:30 Student talks
(20 min talk + 5 min
for questions) Sebastián Bernales Chair
- 14:30 "The pathogen EHEC rewires action signalling
using a novel mechanism" Nathan Sallee
- 15:00 "The copper-dependent ACE1 protein activates the
Transcription of the *mco1* gene in the basidiomycete
Phanerochaete chrysosporium" Paulo Canessa
- 15:30 "Mechanisms that attenuate TGF β signalling
during miogenesis" Enrique Brandan
- 16:30 Coffee break
- 17:00 "The secret life of the cytoskeleton" Dyche Mullins



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PROGRAM OCTOBER 17ST

9:00	Welcome	Pablo Valenzuela
9:15	“Mechanisms of transmembrane transport”	Bob Stroud
10:15	“The zebrafish as a tool to understanding sensory cell regeneration”	Miguel Allende
11:15	Coffee break and set up of posters	
11:45	Poster session (half of posters)	Coordinators: Consuelo Bruno and Esteban Engel
12:45	Lunch	
14:45	Student talks (20 min + 5 min for questions)	Sebastian Bernales Chair
14:45	“A luminal surveillance complex that selects misfolded glycoproteins for ER-associated degradation”	Erin Quan
15:15	“Nicotiana Benthamiana plants resistant to Grapevine fanleaf virus by means of interferences RNA”	Consuelo Bruno
15:45	Coffee break	
16:30	“Nanostructural interfaces for therapeutic delivery”	Tejal Desai



INTERNATIONAL MEETING
**SCIENCE & FRIENDSHIP III:
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LIST OF ORAL & POSTER PRESENTATIONS
UCSF

TUESDAY OCTOBER 16, 2007

First author	Title	Nº
Nathan Sallee	Rewiring the Regulatory Mechanisms of Signaling Proteins	13
Jasmina Allen	<u>A Semi-synthetic Epitope for Kinase Substrates</u>	1
Victor Chubukov	Dynamics of transcriptional regulation in metabolic networks: theory and experiment	4
Kathleen Fischer	Bioadhesive Properties of Silicon Oxide Nanowires for Drug Delivery	7
Brad Green	The Role of Microbial Flora Interactions Upon <i>Candida albicans</i> ' Life as a Commensal in the GI Tract	10
Nathan Gushwa	Semi-promiscuous electrophilic kinase inhibitors: Tools for <i>in vivo</i> labeling and small molecule target identification.	13
Mattias Karlsson	Learning and Novelty in the Hippocampus: Gradual	16

	Changes in Activity COINCIDES with Novelty of Experience	
Kristin Krukenberg	Understanding the molecular mechanism of Hsp90: the role of nucleotide hydrolysis in the chaperone cycle	20



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LIST OF ORAL & POSTER PRESENTATIONS
UCSF

WEDNESDAY OCTOBER 17, 2007

First author	Title	Nº
Tetsuya Matsuguchi	Regulation of Telomerase Dimerization in <i>Saccharomyces cerevisiae</i>	23
Emma McCullagh.	Two redundant inhibitors of the MAPK-responsive transcription factor Ste12 differentially modulate noise during pheromone signalling	1
Victoria Newman	<i>In vitro</i> modeling of resistance-acquisition to novel antimalarial therapeutics	5
Erin Quan	A Luminal Surveillance Complex that Selects Misfolded Glycoproteins for ERAD	9
Veena Singla	OFD1, a Human Disease Gene, is Required for the Assembly of Cilia and Centrosomes	16
Alex So	Determinants of Cell- and Gene-Specific Transcriptional Regulation by the Glucocorticoid Receptor	19
Brandon Toyama	The structural basis of prion strains	22
Tracy Yamawaki	Regulation of longevity by the reproductive system of <i>C. elegans</i>	25
Janet Yang	Elucidating the mechanism of the ISWI family of chromatin remodelers.	27



INTERNATIONAL MEETING
**SCIENCE & FRIENDSHIP III:
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 LIST OF ORAL & POSTER PRESENTATIONS
 MIFAB INSTITUTE
TUESDAY OCTOBER 16, 2007

First author	Title	Nº
Mauricio Arenas	Homology modeling of the fur global transcriptional regulator from <i>Acidithiobacillus ferrooxidans</i> .	2
Verónica Burzio	Differential Expression of a Novel Family of Non-Coding Mitochondrial RNAs (ncmtRNAs) in Normal and Tumor Cells.	5
Paulo Canessa	The copper-dependent ACE1 protein activates the transcription of the <i>mco1</i> gene in the basidiomycete <i>Phanerochaete chrysosporium</i> .	6
Marcelo Chacón	Frizzled-1 mediates the neuroprotective effect of WNT3A against the toxicity of abeta oligomers in PC12 cells and hippocampal neurons.	8
Marcela Colombres	Heparin activates WNT signaling for neuronal morphogenesis.	9
Jaime De Calisto	Regulatory T cells generated <i>in vitro</i> show suppressive activity and a gut-homing phenotype.	11
Erwin de la Fuente	Cytosolic Determinants for Trafficking of a Model GPI-Protein to the Cell Surface.	12
Calixto Domínguez	Develing new roles for caspases: clues from A bioinformatics strategy.	14
Francisco Duarte	How do proteins function and make protein-protein contact at PH1?	15
Esteban Engel	Development and validation of a microarray-based detection system for grapevine viruses.	17
José A. Gárate	A proposed role for molecular dynamics simulations in the modeling of biological macromolecules.	18
Angel Gonzalez	Molecular dynamics simulations of Hepatitis C virus ires IIID domain. Effects of mutations in electrostatic and structural properties.	19
Javier Guerrero	Cellular Mechanisms of Adipose Reversion of the Mammary Stroma by Tumor Derived Factors.	21
Francisco Ipinza	The outer membrane proteins OmpD and OmpW of <i>Salmonella enterica</i> serovar Typhimurium participates in the efflux of the toxic salt methyl viologen.	22
Mariana Labarca	Sonic hedgehog is apically localized in epithelial MDCK cells.	24
Carlos F. Lagos	Development of Dengue virus fusion inhibitors. Part 1.	25
Javiera López	Blockade of the cytoskeleton dynamics did not interfere with	26

	the extracellular release of ATP and metabolites from tissue cultured cells elicited by mechanical stimulation.	
Gonzalo Olivares	<i>xSyndecan-1</i> Participates in the establishment of dorsoventral axis in <i>Xenopus</i> embryos modulating BMP4 signaling through a mechanism <i>Chordin</i> -dependent.	3



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LIST OF ORAL & POSTER PRESENTATIONS
MIFAB INSTITUTE
WEDNESDAY OCTOBER 17, 2007

First author	Title	Nº
Consuelo Bruno	Nicotiana Benthamiana plants resistant to grapevine fanleaf virus by means of interference RNA.	2
Hector Osorio	How do Microorganisms that Thrive in Extremely Acidic Environments Preserve Homeostasis when Confronted with Huge Concentrations of Soluble Iron?	3
Francisco Ossandón	Alternate open reading frames (ORFs): A Bioinformatics nightmare but a potential biological goldmine.	4
Francisco Palma	Association of P2Y ₁ and P2Y ₂ Receptors to Plasma Membrane Micro-domain and their Regulation by Agonists; studies with human placenta vessels.	6
Evelyn Pardo	Galectin-8 promotes survival and protects neurons against neurodegeneratives stimulus through the activation of antiapoptotic pathways.	7
Daniela Pérez	Characterization of <i>hif-1α</i> and <i>hif-2α</i> expression during development in zebrafish.	8
Erika Poblete	Expression of genes involved in the Chilean flounder (<i>Paralichthys adspersus</i>) muscle growth: Nutritional restriction and compensatory growth effect.	10
Susana Rasmussen	A first glance at the <i>Eucalyptus globulus</i> cold-activated regulatory pathway.	11
Bryan Reynaert	A topological insight on protein thermal stability.	12
Felipe Rodríguez	Ivermectin and zinc potentiate the P2X ₄ receptor gated currents acting AT distinct and separate allosteric modulator sites.	14
Amir Shmaryahu	Bioinformatic discovery and experimental validation of small regulatory RNAs: Novel genetic regulation in the extremophile <i>Acidithiobacillus</i> genus.	15
Evelyn Silva	Identification and expression analysis of adhesion and germination genes involved in the infection process of <i>Botrytis cinerea</i> .	17
Nicole Tischler	Structural and functional analysis of the Hantavirus Gc protein.	18
Carolina Torrealba	Basolateral protein sorting analyzed with membrane-permeant peptides.	20

Jorge Valdes	Bioleaching Copper by Microbial Consortia: Metabolic Network Integration from a Comparative Genomic View.	21
Lorena Varela	Distribution of the Wnt receptors Frizzled-1 and Frizzled-2 on hippocampal neurons.	23
Pablo Vargas	Molecular coordination of antigen processing in dendritic cells.	24
Soledad Vidaurre	Selective death of tumor cells by interference of the antisense non-coding mitochondrial RNA (ncmtRNA with oligonucleótidos.	26