

FINAL SCHEDULE
World Molecular Engineering Network Eighteenth Annual Meeting on Structural Biology

29 April – 3 May 2007, San Jose del Cabo, Baja, Mexico

Sunday Evening, 29 April

17:00 – 17:15 Andrej Sali and Ian Wilson

Introduction and Welcome

17:15 – 20:00 **Self-Introductions by Non-Presenting Sponsors**

Kirk Clark	Novartis
Mary McGrath	Gilead
Daniel Santi	Kosan/UCSF
David Stevens	Wilson Sonsini Goodrich & Rosati

Short Presentations (5 min.) by TSRI and UCSF Graduate Students, Postdoctoral Fellows *et al.*

Joshua Chappie	TSRI	Understanding dynamin's basal GTPase activity
Graham Johnson	TSRI	Automated visualization of subcellular environments
Donald Kerkow	TSRI	Understanding the molecular interactions controlling post-transcriptional regulation of the <i>C. elegans</i> transformer 2 gene
Chris Kimberlin	TSRI	Structural studies of the prion replicative interface
Gabriel Lander	TSRI	Effects of pressure on packaged DNA structure in phage lambda
Dena Marrinucci	TSRI	Investigating drug targets on circulating tumor cells
Anke Mulder	TSRI	Functional studies of medically important serine hydrolases
Sherry Niessen	TSRI	Defining the role of KIAA1363 in cancer biology
Theresa Tiefenbrunn	TSRI	Structural studies and antiangiogenic activity of synthetic thrombospondin-1 type 1 repeat analogs
Sarah Voytek	TSRI	Emergence of a continuously evolving ribozyme
Andrew Ward	TSRI	Structural dynamics of the ABC transporter MsbA
Craig Yoshioka	TSRI	Computer vision and 3D electron microscopy

Break

Mark Burlingame	UCSF	A facile one-pot synthesis of disulfide monophores
Elisabeth Humphris	UCSF	multi-specificity of protein interfaces
Maki Inada	UCB	Ultraconserved nonsense for regulation of gene expression in the SR protein family
Yannet Interian	UCB	Towards a phylogenomic approach to pathway reconstruction.
Kathy Ivanetich	UCSF	Overview of Northern California water quality research projects
Sami Mahrus	UCSF	Global profiling of proteolysis in apoptosis
Eswar Narayanan	UCSF	Large-scale protein structure modeling and applications

20:30 – 21:00 **Reception**

In the Main Garden

FINAL SCHEDULE
World Molecular Engineering Network Eighteenth Annual Meeting on Structural Biology

29 April – 3 May 2007, San Jose del Cabo, Baja, Mexico

Monday Morning, 30 April

09:00	Kimmen Sjolander	UCB	Construction of the PhyloFacts phylogenomic encyclopedias
09:20	Steven Brenner	UCB	Ultraconserved nonsense: Pervasive unproductive splicing of SR proteins associated with ultraconserved DNA elements
09:40	Gary Siuzdak	TSRI	Metabolomics for elucidating gene function
10:00	Break		
10:30	Ian Wilson	TSRI	Structural genomics and new opportunities
10:50	Marc Elsliger	TSRI	Structural genomics and its application to structural biology
11:10	Ray Stevens	TSRI	Structural proteomics of protein therapeutics
11:30	Bridget Carragher	TSRI	An automated pipeline for macromolecular microscopy

Monday Afternoon

16:30	Jim Paulson	TSRI	Self-assembly of macromolecular complexes on B cells
16:50	Erica Olmann-Saphire	TSRI	Antibodies against the Ebola virus: Structural analysis
17:10	Mark Yeager	TSRI	Structure of full-length HIV-1 CA: A model for the mature capsid lattice
17:30	Tobin Dickerson	TSRI	New uses for filamentous bacteriophage: Moving beyond phage display
17:50	Break		
18:10	Andrew May	Fluidigm	SPONSORS I – Advances in Technology for Structural Biology
18:30	Sue Byram	Bruker-AXS	Microfluidic technologies for structural biology
18:50	Joe Ferrara	Rigaku	Bruker instruments for structural biology
			Homelab vs Synchrotrons: The truth might surprise you

Tuesday Morning, 1 May

09:00	Jay Pandit	Pfizer	Structure-based design of PDE-10 inhibitors
09:20	Niek Dekker	AstraZeneca	Purified membrane proteins in drug discovery
09:40	Michal Vieth	Eli Lilly	It is all about fragments - from characterizing target space to design
10:00	Duncan McRee	ActiveSite	Fishing for fragments with the ACTOR robot
10:20	Break		
10:40	Brian Atwood	Versant Ventures	Hedge Funds, Gigafunds, and the Dreaded Binary: Biotech VC in the 21st Century

FINAL SCHEDULE
World Molecular Engineering Network Eighteenth Annual Meeting on Structural Biology

29 April – 3 May 2007, San Jose del Cabo, Baja, Mexico

11:00

Panel Discussion

Alta Partners

Panel Leaders: Jean Deleage, David Mack

Title: Building a Business in Biotech: What it Takes to Launch, Fund, and Grow a Successful Company

Tuesday Afternoon

16:30 Joel Gottesfeld
16:50 David Millar
17:10 Robert Fletterick

TSRI
TSRI
UCSF

Nucleic Acids and Proteins (Chair: Tanja Kortemme, UCSF)

Chromatin therapeutics for neurological diseases
Ribonucleoprotein assembly at the single-molecule level
Repression by DAX-1

17:30 **Break**

Enzymes

17:50 Jack Kirsch
18:10 Rashid Syed
18:30 Adam Renslo

UCB
Amgen
UCSF

Evolutionary strategies to change protein specificity
Crystal structure of hypoxia-inducible factor prolyl hydroxylase 2 (HIF-PH2)
New small molecule inhibitors of cysteine proteases in trypanosomes

Wednesday Morning, 2 May

08:30 Todd Yeates
08:50 Andrej Sali
09:10 Daniel Minor
09:30 Ron Milligan

UCLA
UCSF
UCSF
TSRI

Assemblies, Computation, and Chemistry (Chair: Kimmen Sjolander, UCB)

Piecing together the structure of the carboxysome shell
The molecular architecture of the nuclear pore complex
Structural biology of ion channel regulation
Depolymerizing kinesins

09:50 **Break**

10:10 Tanja Kortemme
10:30 Ron Zuckermann
10:50 Phil Dawson

UCSF
UCB
TSRI

Design of selective and multi-specific interfaces
Bio-inspired polymers as nanoscale building materials
Control and assembly of macromolecules using rapid and dynamic chemical reactions

11:10 **Close**