

**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**

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### Monday Morning, 30 April

### Advances in Proteomics (Chair: Todd Yeates, UCLA)

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	<b>Break</b>		
10:30	Ian Wilson	TSRI	Structural genomics and new opportunities
10:50	Marc Elslinger	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

### Immunology and Virology (Chair: Ray Stevens, TSRI)

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
18:30	Sue Byram	Bruker-AXS
18:50	Joe Ferrara	Rigaku

### SPONSORS I – Advances in Technology for Structural Biology

Microfluidic technologies for structural biology  
Bruker instruments for structural biology  
Homelab vs Synchrotrons: The truth might surprise you

### Tuesday Morning, 1 May

### SPONSORS II – (Chair: Dan Santi, Kosan/UCSF)

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	<b>Break</b>		
10:40	Brian Atwood	Versant Ventures	Hedge Funds, Gigafunds, and the Dreaded Binary: Biotech VC in the 21st Century

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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

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

16:30      Joel Gottesfeld      TSRI      Chromatin therapeutics for neurological diseases  
16:50      David Millar      TSRI      Ribonucleoprotein assembly at the single-molecule level  
17:10      Robert Fletterick      UCSF      Repression by DAX-1

17:30      **Break**

### Enzymes

17:50      Jack Kirsch      UCB      Evolutionary strategies to change protein specificity  
18:10      Rashid Syed      Amgen      Crystal structure of hypoxia-inducible factor prolyl hydroxylase 2 (HIF-PH2)  
18:30      Adam Renslo      UCSF      New small molecule inhibitors of cysteine proteases in trypanosomes

### Wednesday Morning, 2 May

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

08:30      Todd Yeates      UCLA      Piecing together the structure of the carboxysome shell  
08:50      Andrej Sali      UCSF      The molecular architecture of the nuclear pore complex  
09:10      Daniel Minor      UCSF      Structural biology of ion channel regulation  
09:30      Ron Milligan      TSRI      Depolymerizing kinesins  
  
09:50      **Break**  
  
10:10      Tanja Kortemme      UCSF      Design of selective and multi-specific interfaces  
10:30      Ron Zuckermann      UCB      Bio-inspired polymers as nanoscale building materials  
10:50      Phil Dawson      TSRI      Control and assembly of macromolecules using rapid and dynamic chemical reactions  
  
11:10      **Close**