Sunday Evening, 4 May

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

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

- Hans Parge  Pfizer
- Daniel Santi  Kosan/UCSF
- Sammy Farah  Versant Ventures
- Heather Preston  TPG

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

- Abram Calderon  UCSF  Using structure-based drug design to direct NMR screening of an RNA target
- Ranyee Chiang  UCSF  Evolutionarily conserved substrate substructures for automated annotation of enzyme superfamilies
- David Eramian  UCSF  TSVMod: Prediction of the absolute accuracy of protein models
- Franz Gruswitz  UCSF  Conduction through the ammonia channels - faculty talk??
- Kathryn Ivanetich  CSU Chico  Quantification of human-derived fecal Enterocci in environmental waters
- Sriram Sankararaman  UCB  Predicting catalytic and specificity residues in proteins
- Dennis Wolan  UCSF  Small molecule activators of the executioner caspases
- Fumiaki Yumoto  UCSF  Critical nuclear receptor in ES cell
- Katy Barglow  TSRI  Activity-based proteomic and structural analysis of the nitrilase family of enzymes
- Russell Burge  TSRI  Interaction of the double-stranded RNA-binding zinc finger protein JAZ with the adenoviral VA1 RNA
- Graham Johnson  TSRI  Automated visualization of subcellular environments
- Donald Kerkow  TSRI  A novel RNA-binding domain I the nuclear export factor (NXF) family
- Chris Kimberlin  TSRI  Structural studies of Ebola virus VP35
- Gabriel Lander  TSRI  A look at bacteriophage evolution via high-throughput automated cryoEM
- Anke Mulder  TSRI  Biding of kinesin 13 heads to curved microtubule protofilaments
- Peter Smith  TSRI  Genetic SAR: a new method for identifying critical enzyme/inhibitor interactions.
- Megan Thielges  TSRI  Exploring the energy landscape of antibody-antigen complexes: Protein dynamics, flexibility, and molecular recognition
- Theresa Tiefenbrunn  TSRI  Structural investigations of synthetic antiangiogenic thrombospondin type 1 repeat analogs
- Andrew Ward  TSRI  ABC transporters and novel detergents
- Craig Yoshioka  TSRI  Visualizing ribosome assembly

20:00– 21:00  Reception  Poolside
# DRAFT SCHEDULE
World Molecular Engineering Network Nineteenth Annual Meeting on Structural Biology
4-8 May 2008, San Jose del Cabo, Baja, Mexico

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Affiliation</th>
<th>Topic</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Ian Wilson</td>
<td>TSRI</td>
<td>The Expanding Protein Universe</td>
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<tr>
<td>09:20</td>
<td>Andrej Sali</td>
<td>UCSF</td>
<td>Integrative methods for protein structure determination</td>
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<tr>
<td>09:40</td>
<td>Kimmen Sjolander</td>
<td>UC Berkeley</td>
<td>New methods for enzyme active site prediction</td>
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<tr>
<td>10:00</td>
<td>Break</td>
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<tr>
<td>10:30</td>
<td>Ray Stevens</td>
<td>TSRI</td>
<td>GPCR structure and implications for drug discovery</td>
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<tr>
<td>10:50</td>
<td>Andrew Krutchinsky</td>
<td>UCSF</td>
<td>Studying dynamics of protein assemblies in cells with fluorescence microscopy</td>
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<tr>
<td>11:10</td>
<td>Peter Kuhn</td>
<td>TSRI</td>
<td>Circulating tumor cells in cancer management – from bedside to bench and back</td>
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<tr>
<td>16:30</td>
<td>Carlos Barbas</td>
<td>TSRI</td>
<td>Chemically programmed immunity</td>
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<tr>
<td>16:50</td>
<td>Jim Paulson</td>
<td>TSRI</td>
<td>Targeting B cells</td>
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<tr>
<td>17:10</td>
<td>Tobin Dickenson</td>
<td>TSRI</td>
<td>Applying phage escape technology to high throughput screening and the modeling of viral evolution</td>
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<tr>
<td>17:30</td>
<td>B. Mattja Peterlin</td>
<td>UCSF</td>
<td>Host cellular complexes on HIV regulatory and accessory proteins</td>
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<td>17:50</td>
<td>Break</td>
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<tr>
<td>18:20</td>
<td>Andy May</td>
<td>Fluidigm</td>
<td>Diffraction-capable microfluidic crystallization chips for screening and structure determination</td>
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<tr>
<td>18:40</td>
<td>Roger Darst</td>
<td>Bruker</td>
<td>X-ray source and detector technologies for micron-sized crystals</td>
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<tr>
<td>09:00</td>
<td>Todd Appleby</td>
<td>Gilead Sciences</td>
<td>Introduction to Gilead Sciences</td>
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<tr>
<td>09:20</td>
<td>Michal Vieth</td>
<td>Eli Lilly</td>
<td>Kinase bioprints-prospective modeling of kinase selectivity</td>
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<tr>
<td>09:40</td>
<td>Sherry LaPorte</td>
<td>Rinat/Pfizer</td>
<td>Snapshots of the IL-4 Receptor Ternary Complexes: An Opportunity to Visualize the Basis of Cytokine Receptor Pleiotropy in the Immune System</td>
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<td>Break</td>
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<tr>
<td>10:30</td>
<td>Joseph Ferrara</td>
<td>Rigaku</td>
<td>Advances in X-ray instrumentation for the home lab</td>
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<tr>
<td>10:50</td>
<td><strong>Panel Discussion</strong></td>
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*Panel Leaders: Andrej Sali, Dan Santi, Ray Stevens, Sammy Farah, Hans Parge*

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

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<tr>
<td>16:30</td>
<td>Joel Gottesfeld</td>
<td>TSRI</td>
<td>Chromatin therapeutics for neurological diseases</td>
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<tr>
<td>16:50</td>
<td>David Millar</td>
<td>TSRI</td>
<td>Nucleic Acid – protein interactions at the single-molecule level</td>
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<tr>
<td>17:10</td>
<td>Jamie Williamson</td>
<td>TSRI</td>
<td>Dynamics of the ribosomal proteome</td>
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<tr>
<td>17:30</td>
<td>Break</td>
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<tr>
<td>18:00</td>
<td>Tom James</td>
<td>UCSF</td>
<td>Molecular Recognition Entailing RNA: Induced Fit Virtual Screening to Find Small Molecule Ligands</td>
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<tr>
<td>18:20</td>
<td>Robert Fletterick</td>
<td>UCSF</td>
<td>Androgen receptor antagonists</td>
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<tr>
<td>18:40</td>
<td>Marc Shuman</td>
<td>UCSF</td>
<td>A bilingual approach to research</td>
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### Wednesday Morning, 7 May

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<td>C. David Stout</td>
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<td>Crystal structure of a mitochondrial membrane protein: Vitamin D specific cytochrome P450 CYP24A1</td>
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<td>Robert Stroud</td>
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<td>Efforts to expand the genetic alphabet</td>
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<td>UCLA</td>
<td>Ideas for designing topologically interesting protein polymers</td>
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<td>Art Olson</td>
<td>TSRI</td>
<td>Extending applications of automated docking</td>
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<tr>
<td>11:00</td>
<td>Closing Remarks</td>
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### Assemblies, Computation, and Chemistry  (Chair: Kimmen Sjolander, UCB)

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