May 1-4, 2011, San Jose del Cabo, Baja, Mexico

Sunday Eve	ning, May 1					
17:00 - 17:15	Introduction and Welcome					
	Andrej Sali and Ian Wilso	on				
17:15-17:45	Keynote Lecture					
	Irwin D. (Tack) Kuntz	UCSF	Design: The Long View			
17:45-20:00	Self-Introductions					
	Scott Forrest	TSRI				
	Eric Schneider	UCSF				
	Liang Tang	Bayer				
	Jaume Pons	Rinat				
	Pavel Strop	Rinat				
	Short Presentations (5+1 min.) by TSRI, UCSF, UCB Graduate Students, Postdoctoral Fellows et al. (Chair: Ian Wilson)					
	Daniel Bachovchin	TSRI	Discovery and characterization of a remarkable class of protein phosphatase methylesterase-1 (PME-1) inhibitors			
	Gira Bhabha	TSRI	Dynamics in enzyme catalysis			
	Corey Dambacher	TSRI	A robust temporal control switch for synthetic biology			
	Damian Ekiert	TSRI	From broadly neutralizing antibodies to a universal influenza vaccine			
	Robert Kirchdoerfer	TSRI	VLR species specificity for bacillus spores			
	Jingyun (Jeff) Liu	TSRI	Investigating ligand mediating dynamic changes of GPCR using 19F NMR			
	Dmitry Lyumkis	TSRI	Structural characterization of ribosomal signaling in non-stop protein decay			
	Crystal Moran Gutierrez	TSRI	Probing structural transitions and dynamics in intrinsically disordered α-synuclein to determine function			
	Crystal Moyer	TSRI	Functional genetic and biophysical analyses of membrane penetration by human adenovirus			
	Cory Rillahan	TSRI	High-throughput synthesis and glycan microarray screening identifies high affinity sialoside analogs for siglec targeting			
		Break				
	Gloria Olivier	LBL	Peptoid nanosheets as protein mimetic materials for molecular recognition			
	Edgar Deu Sandoval	Stanford	Development of a novel 'fragmenting hybrid' approach for the delivery of protease inhibitors to the malaria parasite			
	Homin Kim	UCSF	Function of C-termini in AAA+ ATPase of 26S proteasome			
	David Barkan	UCSF	A divide and conquer approach for protein-peptide docking			
	John Pak	UCSF	The overexpression of human integral membrane proteins in mammalian cells			
	Elena Dolgikh	UCSF	Predicting binding to P-glycoprotein and related transporters by flexible receptor docking			
	Jennifer Liu	UCSF	Understanding microtissue maintenance in synthetic MCF-10A acini			
20:15-21:30	Reception		Poolside			

May 1-4, 2011, San Jose del Cabo, Baja, Mexico

09:00Andrej SaliUCSFSmall molecule docking against protein structure models09:20James FraserUCSFProtein cryo-crystallography quenches functional hidden alternative conformations09:40J Michael SauderLillyEngineering proteins for structural biology10:00Rick HarkinsBayerIdentification of novel protein scaffolds from public databases10:20BreakCellular Biology and Visualization (Chair: Larry Gerace)10:40Graham JohnsonTSRIApplications of subcellular modeling and visualization software11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis11:40Jeff KellyTSRIEnhancing proteostasis for disease intervention	Monday Morning, May 2			Advances in Structural Biology (Chair: James Fraser)
09:20James FraserUCSFProtein cryo-crystallography quenches functional hidden alternative conformations09:40J Michael SauderLillyEngineering proteins for structural biology10:00Rick HarkinsBayerIdentification of novel protein scaffolds from public databases10:20BreakCellular Biology and Visualization (Chair: Larry Gerace)10:40Graham JohnsonTSRIApplications of subcellular modeling and visualization software11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	09:00	Andrej Sali	UCSF	Small molecule docking against protein structure models
09:40J Michael SauderLillyEngineering proteins for structural biology10:00Rick HarkinsBayerIdentification of novel protein scaffolds from public databases10:20BreakCellular Biology and Visualization (Chair: Larry Gerace)10:40Graham JohnsonTSRIApplications of subcellular modeling and visualization software11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	09:20		UCSF	
10:20 Break Cellular Biology and Visualization (Chair: Larry Gerace) 10:40 Graham Johnson TSRI Applications of subcellular modeling and visualization software 11:00 Zev Gartner UCSF Total synthesis of 3D living tissues 11:20 Larry Gerace TSRI Endoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	09:40	J Michael Sauder	Lilly	
10:40Graham JohnsonTSRIApplications of subcellular modeling and visualization software11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	10:00	Rick Harkins	Bayer	Identification of novel protein scaffolds from public databases
10:40Graham JohnsonTSRIApplications of subcellular modeling and visualization software11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	10:20	Break	-	
11:00Zev GartnerUCSFTotal synthesis of 3D living tissues11:20Larry GeraceTSRIEndoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis				Cellular Biology and Visualization (Chair: Larry Gerace)
11:20 Larry Gerace TSRI Endoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis	10:40	Graham Johnson	TSRI	Applications of subcellular modeling and visualization software
	11:00	Zev Gartner	UCSF	Total synthesis of 3D living tissues
11:40Jeff KellyTSRIEnhancing proteostasis for disease intervention	11:20	Larry Gerace	TSRI	Endoplasmic reticulum nanodomains in regulation of cholesterol biosynthesis
	11:40	Jeff Kelly	TSRI	Enhancing proteostasis for disease intervention
	Monday Afternoon			
16:30James PaulsonTSRIControlling the immune response with nanoparticles decorated with siglec ligands		•		
16:50 Dan Santi UCSF/ProLynx Predictably extending drug duration	16:50	Dan Santi	UCSF/ProLynx	
17:10Carlos BarbasTSRIChemically programmed immunity		•	-	
17:30Ian WilsonTSRIBroad neutralization of HIV-1		Ian Wilson	TSRI	Broad neutralization of HIV-1
17:50 Break	17:50	Break		
Chemical Biology (Chair: Matthew Bogyo)				Chemical Biology (Chair: Matthew Bogyo)
18:10 Dennis Wolan TSRI Structure-based mechanism of streptopain and insights into inhibitor design	18:10	Dennis Wolan	TSRI	Structure-based mechanism of streptopain and insights into inhibitor design
18:30 Matthew Bogyo Stanford Applications of small molecule probes to study protease function	18:30	Matthew Bogyo	Stanford	
18:50 Ronald Zuckermann LBL Protein mimicry with peptoid polymers	18:50		LBL	
Tuesday Morning, May 3				
SPONSORS I (Chair: Dan Santi)				
09:00Roger DurstBrukerAdvances in x-ray source and detection technologies				
09:20 Glen Spraggon GNF Crystal structure of PCSK9 in complex with the Low Density Lipoprotein receptor				
09:40 Rob Kania Pfizer La Jolla Structure-based design of axitinib and crizotinib		Rob Kania	Pfizer La Jolla	Structure-based design of axitinib and crizotinib
10:00 Break	10:00	Break		
10:30 Arvind Rajpal Rinat From donor-derived antibody phage libraries to antibody repertoire analysis to synthetic library design -	10:30	Arvind Rajpal	Rinat	From donor-derived antibody phage libraries to antibody repertoire analysis to synthetic library design -
coming full circle in our efforts to understand and recapitulate functional diversity of antibodies		~		
10:50 Stephen Doberstein Nektar Optimizing pharmacodistribution of small molecule drugs through polymer conjugation	10:50	Stephen Doberstein	Nektar	
11:10 Alicia Berger Versant Ventures Trends in venture capital	11:10	Alicia Berger	Versant Ventures	Trends in venture capital

May 1-4, 2011, San Jose del Cabo, Baja, Mexico

Tuesday Afternoon			Nucleic Acids and Nucleic Acid Binding Proteins (Chair: Jamie Williamson)		
16:30	David Millar	TSRI	Nucleic acid - protein interactions at the single molecule level		
16:50	Jamie Williamson	TSRI	Dynamics of ribosome assembly in cells		
17:10	Pilgrim Jackson	Celgene	Histone tales and the modifications that tell them (a story of JMJD2C)		
17:30	Break				
			Membrane Proteins (Chair: Robert Stroud)		
18:00	Andrew Ward	TSRI	Structure of P glycoprotein bound to a nanobody inhibitor		
18:20	Matt Jacobson	UCSF	The specificity of P-glycoprotein and related transporters		
18:40	Robert Stroud	UCSF	To and through the biological membrane		
19:00	Natalia Jura	UCSF	Membrane organization and control of signaling in the HER family of receptor tyrosine kinases		
Wednesday Morning, May 4					
			Viruses, Assemblies, Computation, and Drug Design (Chair: Andrej Sali)		
08:30	David Stout	TSRI	Progress toward an allosteric inhibitor targeting HIV protease		
08:50	Mark Yeager	TSRI/UVA	Atomic level modeling of the HIV-1 capsid		
09:10	Jack Johnson	TSRI	Dynamics and stability in virus maturation: The mechanism of a molecular machine		
09:30	Yifan Cheng	UCSF	Single particle cryoEM study of macromolecular complexes		
09:50	Break				
10:10	Arthur Olson	TSRI	Wet docking		
10:30	Wayne Fairbrother	Genentech	Mechanism of IAP antagonist-induced activation of cIAP ubiquitin ligase activity		
10:50	Sarah Hymowitz	Genentech	Ubiquitin binding to A20 ZnF4 is required for modulation of NF-κB signaling		
11:10	Brent Appleton	Novartis	Resistance screen with a novel c-Met inhibitor reveals mutations found in cancer patients		
11.10	Di cht Appicton	110701115	Resistance server while a nover e-friet minoritor reveals instantions round in cancer patients		
11:30	Ian Wilson and Andrej Sali		Closing Remarks		

In order to protect individual rights and promote discussion, it is a requirement of the 2011 Scripps-UCSF Cabo WMEN Annual Meeting on Structural Biology Conference that no information presented is to be used or disclosed without the specific approval of the disclosing party. Each attendee of the Conference agrees that any information presented, whether in a formal talk or discussion, is a private communication from the individual making the contribution and is presented with the restriction that such information is not for public use. Each member of a Conference acknowledges and agrees to these restrictions as a condition of attending the Conference.

May 1-4, 2011, San Jose del Cabo, Baja, Mexico

