Sunday Evening, May 3

17:15-17:30	Introduction and Welcome Ian Wilson and Andrej Sali						
17:30-18:15	Keynote Lecture Sasha Kamb	Amgen	Alzheimer's disease: The confluence of genetics, molecular structure and new medicines				
18:15-18:25	Self-Introductions Daniel J. Cipriano Jakob Loven Jaume Pons	Merck Research Labs Third Rock Ventures UCSF/Rinat-Pfizer					
18:30-20:45	20:45 Short Presentations (5+1 min.) by TSRI and UCSF Graduate Students, Postdocs and Researchers (Chair: Der						
	Jessica Bruhn Sandip Chatterjee Jonathan Hulce Jennifer Kefauver Bryan Martin Charles Murin Erika Olson Nicole Schirle Oakdale Jessica Sheu-Gruttadauria Peter Thuy-Boun Yuh Ana Wang	TSRI TSRI TSRI TSRI TSRI TSRI TSRI TSRI	Insights into the molecular and structural properties governing RNA virus transcription and replication A comprehensive database and search method for microbiome metaproteomics Extended N-hydroxyhydantoin carbamate inhibitors of mammalian lipases Compositional heterogeneity of Swell1, the volume-regulated anion channel The Octamer Repeat motif, a novel molecular architecture involved in splicing regulation Structures of protective antibodies reveal sites of vulnerability on Ebola virus Structure-guided optimization of a peptide antagonist of EphA4 activation The crystal structure of human argonaute2 Structural studies of higher-order miRNA-induced silencing complexes The development of tools for profiling gut microbial sulfatases Chemical metaproteomics of the human distal gut microbiota				
Break							
	Elena Sablin Courtney French Geoffrey Smith	UCSF UC Berkeley UCSF	Regulation of NR5A receptors by PIP3 hormone. Transcriptome analysis reveals thousands of targets of nonsense-mediated mRNA decay that offer clues to the mechanism in different species Exploring the kinetics of cell signaling with small molecules: a unique temporal requirement for JAK3 activity in IL-2 signaling				
	Alex Vecchio Benjamin Barad Peter Cimermancic Marco Lolicato Nicolas Strauli	UCSF UCSF UCSF UCSF UCSF	in IL-2 signaling Piece by piece: putting together the tight junction three-dimensional puzzle Side-chain directed model and map analysis for 3D electron cryomicroscopy Finding small-molecule modulators of large macromolecular assemblies Activation of a human ion channel by physical forces Deconvolution of selection pressures in overlapped genes: The story of Tat and Rev				

21:00-22:00 Reception with Buffet

Poolside

Monday Morning, May 4			Structural Biology (Chair: Kathleen Aertgeerts)
09:00 09:20 09:40 10:00	Andrej Sali John Tainer James Fraser Jeff Lengyel	UCSF TSRI UCSF FEI	Integrative structure determination based on EMAP data Better design of proteins and protein cages by X-ray scattering BBC PUBS: Results from our first year graduate students! Beyond the frontiers of the Cell - unveiling the wonders of Nature at the molecular level
10:20	Break		
10:40 11:00 11:20 11:40	Elizabeth Getzoff Otomo Takanori Peter Wright Ashok Deniz	TSRI TSRI TSRI TSRI	Switching protein conformations and assemblies: light and ligands, redox and radicals Structural insights into the functions of the autophagic ubiquitin-like proteins Intrinsically disordered proteins in cellular regulation Biophysics of a disordered protein, from single molecules to droplets
Monday Afternoon			Virology and Immunology (Chair: Jim Paulson)
16:30 16:50 17:10 17:30	Andrew Ward Ian Wilson Jim Paulson Pedro Paz	TSRI TRSI TSRI Bayer Healthcare	High resolution cryoEM of viral glycoproteins Recognition of influenza virus by broadly neutralizing antibodies Targeting immune cells Modeling MHCII-peptide-TCR interactions for prediction of immunogenicity
17:50	Break		
]			Membrane Proteins (Chair: Andrew Ward)
18:10 18:30 18:50 19:10	Robert Stroud Dan Minor Mark Yeager Kathleen Aertgeerts	UCSF UCSF UVA Dart NeuroScience	Membrane transporters in action: how do they work? How ion channels respond to temperature and pressure Allosteric enhancers of adenosine receptors for treatment of a disease that has increased 300% in last 20 years Integrative methods to facilitate structure-based GPCR drug discovery

20:00-22:30 Sponsor Dinner, by invitation only - Oceana Garden

Tuesday Morning, May 5			SPONSORS (Chair: Daniel Santi)
0.00			
9:00	Daniel Santi	UCSF/ProLynx	A chemical approach to half-life extension of therapeutics
9:20	Mathias Rickert	Rinat Laboratories-	Production of soluble and active microbial transglutaminase for site-specific antibody drug conjugation in
		Pfizer, Inc.	Escherichia coli
9:40	Craig Muir	Third Rock Ventures	Cytomx, Global Blood, Myokardia, allostery and FibroCO; innovation, patient focus and assiduosity since 2010
10:00	Christian Cunningham	Genentech, Inc.	USP30 and Parkin homeostatically regulate atypical ubiquitin chains on mitochondria

10:20	Break			
10:40 11:00 11:20	Wayne Fairbrother Ute Hoch Joshua Salafsky	Genentech, Inc. Nektar Therapeutics Biodesy, Inc. GNF	Targeting Bcl-2-family proteins Etirinotecan pegol: Teaching an old dog new tricks Detecting and distinguishing conformations sensitively by second-harmonic generation (SHG) for drug discovery and basic research	
11:40	Glen Spraggon	GINF	The structure and design of LDK378 (Ceritinib): A potent anaplastic lymph	
Tuesday Afternoon			Nucleic Acids, Nucleic Acid Binding Proteins & Evolution	(Chair: Peter Wright)
16:30 16:50 17:10 17:30 17:50	David Millar Ian MacRae Jamie Williamson Floyd Romesberg Break	TSRI TSRI TSRI TSRI	Functional coordination during DNA polymerase activity Structural mechanisms in RNA silencing Combined EM and MS studies of ribosome assembly A semi-synthetic organism with an expanded genetic alphabet	
			Chemical Biology (Chair: Jack Taunton)	
18:10 18:30 18:50 19:10	Phil Dawson Dennis Wolan Jack Kirsch Jack Taunton	TSRI TSRI UCB UCSF	Chemical ligation and bioconjugation, addressing large protein targets. Chemical-based interrogation of the human gut microbiome Can the effect of an arbitrary mutation on the catalytic activity of an enzyme Substrate-selective modulators of protein secretion	e be predicted?
Wednesday Morning, May 6			Computation, Health and Disease (Chair: Andrej Sali)	
8:50 9:10 9:30	Ryan Hernandez Steven Brenner Robert Fletterick	UCSF UC Berkeley UCSF	Population genomics of health and disease Diagnostic role of exome sequencing in immune deficiency disorders Inhibiting androgen receptor	
9:50	Break			
10:10 10:30 10:50	Gabriel Lander Graham Johnson Arthur Olson	TSRI UCSF TSRI	Investigating the machinery of cellular homeostasis by multiscale imaging Towards whole cells modeled in 3D molecular detail and community curate What's up with docking?	d with cellPACK
11:15	Ian Wilson and Andrej Sali		Closing Remarks	

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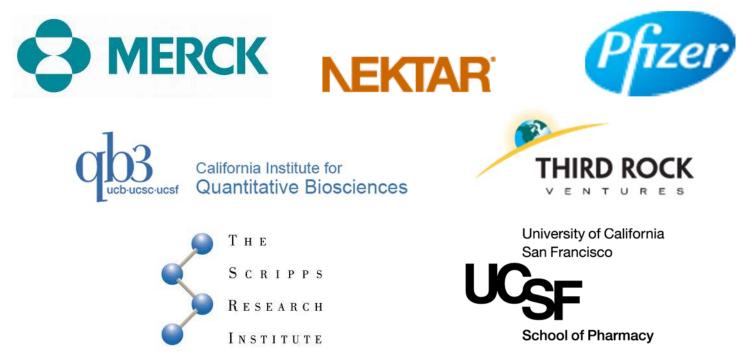




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Page 4 of 4