

WMEN CABO XXVI, May 7-11, 2016

Saturday Evening, May 7

17:15-17:30	Introduction and Welcome Ian Wilson and Andrej Sali	
17:30-18:15	Keynote Lecture Ian Wilson	TSRI A perspective on antibody structure and function from 35 years in the field
18:15-18:25	Self-Introductions Mira Chaurushiya Jack Kirsh Bellos Hadjivassiliou	5AM Ventures UC Berkeley Celgene
18:30-20:45 Short Presentations (5+1 min.) by TSRI, UCSF, UCB and Stanford Graduate Students, Postdocs etc. (Chair: Erica Ollmann Saphire)		
Jessica Bruhn	TSRI	Insights into the structural assemblies governing RNA virus transcription and genomic replication
Alexander Krois	TSRI	Versatility through Flexibility-p53 and intrinsic disorder
Jennifer Kefauver	TSRI	Structural heterogeneity in SWELL1, the volume-regulated anion channel
Charles Daniel Murin	TSRI	One gene, two proteins: cryoEM structures of Ebola Virus sGP in complex with protective antibodies
Erika Olson	TSRI	Structure-guided optimization of a peptide antagonist of EphA4 activation
Danielle Grotjahn	TSRI	Cryo-electron tomography of the dynein-dynactin complex bound to microtubules
Sergey Shnitkind	TSRI	Structural ensemble and phosphorylation-dependent regulation of an intrinsically disordered transcription factor
Shanshan Lang	TSRI	Anti-idiotypic antibody K1-19 for flu vaccination
Sasha Moola	TSRI	Crystal structures of two related broadly neutralizing antibodies against the N332 supersite in HIV Env
Break		
Cristina Arrigoni	UCSF	Structural and functional characterization of a ion channel temperature sensitive domain
Manasi Bhate	UCSF	Structure and function of bilayer stress-sensing transmembrane domains
John-Marc Chandonia	UC Berkeley	Party like it's 1999: structural novelty has regressed two decades
Zachary Hill	UCSF	Proximity tagging of small molecule protein targets using an engineered NEDD8 ligase
Alexander Kintzer	UCSF	Structure, inhibition and regulation of a two-pore channel TPC1
Daniel Saltzberg	UCSF	Integrative structure modeling based on HDX data
Christopher Schulze	Stanford	An in vivo multiplexed small molecule screening platform identifies a pro-metastatic factor in pancreatic cancer
Robyn Kaake	UCSF	Cross-linking mass spectrometry and virus-host protein complexes
21:00– 22:00 Reception with Buffet	Poolside	

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Sunday Morning, May 8		Integrative Structural Biology (Chair: Robert Stroud)	
09:00	Andrej Sali	UCSF	Integrative mapping of metabolic pathways
09:20	Ashok Deniz	TSRI	Biophysics of protein disorder at single molecule resolution
09:40	Takanori Otomo	TSRI	Structural insights into autophagosome formation
10:00	Carolyn Larabell	UCSF	Enhancing molecular information with correlated and hybrid methods
10:20	Break		
10:40	Jeff Lengyel	FEI	Recent technological developments in cryoTEM: advancing challenging structural biology research
11:00	Gabriel Lander	TSRI	An ensemble approach for atomic-level structure determination from cryoEM maps
11:20	Andrew Ward	TSRI	Structural studies of viral glycoproteins from HIV to Coronavirus
11:40	Pedro Serrano-Navarro	TSRI	NMR identifies new functional roles for arginine-serine-rich domains
12:00	Daniel Santi	Prolynx/UCSF	An ultra-long acting GLP-1 agonist
Sunday Afternoon		Antibodies, Epitopes and Vaccines (Chair: Jim Paulson)	
16:30	Erica Ollmann Saphire	TSRI	Antibodies against Ebola virus: A global collaboration
16:50	Adrian Guthals	Mapp	
		Biopharmaceuticals	MS/MS sequencing of native human antibodies
17:10	James Wells	UCSF	The Antibiome: recombinant antibodies en masse
17:30	Vijay Reddy	TSRI	Tomato bushy stunt virus (TBSV): a versatile display platform for antigenic epitopes and vaccine design
17:50	Break		
Membrane Proteins (Chair: Andrew Ward)			
18:10	Robert Stroud	UCSF	Electric potential vs. proton driven transport
18:30	Qinghai Zhang	TSRI	Structural flexibility and ligand binding of multidrug ABC transporters
18:50	William DeGrado	UCSF	High resolution view of drug-binding and proton conduction pathway of M2 proton channel from XFELs crystallography
19:10	Daniel Minor Jr	UCSF	How an ion channel domain can control temperature responses
20:00-22:30	Sponsor Dinner, by invitation only - Oceana Garden		
Monday Morning, May 9		SPONSORS (Chair: Daniel Santi)	
09:20	Jody Berry	GRIFOLS	Sterotypical antibody responses: A characteristic of all dominant epitopes?
09:40	Jonathan Moore	Vertex	Biophysical Insight in Drug Discovery
10:00	Hing Sham	GBT	GBT440, a potent allosteric modifier of Hb oxygenation
10:20	Daniel Kirschhofer	Genentech, Inc.	Neutrophil serine protease 4 is a pro-inflammatory enzyme with a unique active site structure
10:40	Break		
11:00	Pat Walters	Relay Therapeutics	Integrating public data into the drug discovery workflow

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11:20	Jonathan Zalevsky	Nektar	Design and engineering of NKTR-214; an IL-2 pathway agonist immunotherapy that replenishes the immune system for the treatment of cancer
11:40	Mary Matyskiela	Celgene	Ligand-dependent recruitment of substrates to the cereblon-CRL4 ubiquitin ligase
12:00	Jaume Pons	UCSF/Alexo	New ideas about blocking CD47
12:20	Magdalena Dorywalska	Rinat Pfizer	Molecular basis of valine-citrulline-PABC linker instability in site-specific ADCs and its mitigation by linker design

Monday Afternoon	Nucleic Acids, Nucleic Acid Binding Proteins & Evolution (Chair: Nevan Krogan)
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16:30	David Millar	TSRI	Trafficking and assembly of HIV-1
16:50	James Williamson	TSRI	Structure and dynamics of 50S ribosome assembly intermediates
17:10	Glen Spraggon	GNF	Unnatural DNA aptamers and the potential to general unique macromolecular targeting modalities
17:30	Floyd Romesberg	TSRI	Engineering a semi-synthetic organism for the stable retention of an expanded genetic alphabet
17:50	Break		

Chemical Biology (Chair: Floyd Romesberg)

18:10	Dennis Wolan	TSRI	Elucidation of aberrant host and microbial proteins in colitis by large-scale metaproteomics
18:30	Phil Dawson	TSRI	Chemical ligation and bioconjugation, addressing large protein targets.
18:50	Jim Paulson	TSRI	HIV glycosylation
19:10	Matthew Bogyo	Stanford	Selective targeting of the malaria proteasome using structural and functional analysis

Tuesday Morning, May 10	Computation, Health and Disease (Chair: Andrey Sali)
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08:50	Stefano Forli	TSRI	Molecular modeling for drug design
09:10	Kathryn DeFea	UC Riverside	Biased targeting of protease-activated-receptor-2: inhibition of β -arrestin-dependent inflammation
09:30	Steven Brenner	UC Berkeley	Interpreting newborn genomes
09:50	Break		
10:10	Nevan Krogan	UCSF	Using systems approaches to study disease
10:30	Natalia Jura	UCSF	Mechanistic insights into receptor tyrosine kinase activation
10:50	Mehrdad Moshrefi	Merck	Biologics discovery at Merck Research Laboratories

11:30	Ian Wilson and Andrey Sali	Closing Remarks
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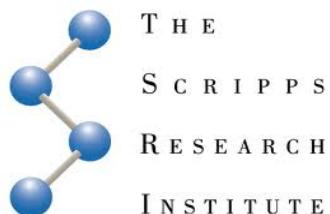
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