Saturday Evoni	ng, May 5, 2018	Sall F	rancisco / San Ignacio Rooms
17:00 – 17:15	Introduction and Welcome Ian Wilson and Andrej Sali		
17:15 – 18:15	Keynote Lecture		
	Peter Schultz	TSRI	Playing with the molecules of life
.8:30 – 18:35	Self-Introductions		
	Emine Kaya	Global Blood Therapeutics	
	Jack Kirsch	UC Berkeley	
18:35 - 20:30	Short Presentations (5 + 1 mir	.) by TSRI , UCSF, l	JCB and LBNL Graduate Students and Postdocs (Chair: Gabriel Lander)
	Cristina Puchades	TSRI	Making mitochondria great again: Protein quality control in the inner membrane
	Christopher Cottrell	TSRI	Structure-based vaccine design
	Ke Yang	TSRI	Structure, cooperativity and dynamics of a hematopoietic transcription factor:coactivator complex
	Angelo Solania	TSRI	Caspase 3 selective inhibitors for biological studies
	Qinheng Zheng	TSRI	Sulfur fluoride exchange: chemistry and applications
	Colby Sandate Short Break	TSRI	Substrate engagement by the microtubule severing enzyme spastin
	Venera Weinhardt	LBNL	Probing phase separation by soft x-ray tomography
	Vasudha Srivastava	UCSF	Oncogene-induced changes in mammary tissue structure and mechanics
	Jonathan Leano	UCSF	Inroads to packaging neurotransmitters
	Seth Axen	UCSF	Determining the information content of second harmonic generation spectroscopy fo modeling conformational changes of macromolecules
	Mohamed Elshenawy	UC Berkeley	Cargo adaptors regulate the stepping and force generation of human dynein/dynactir complex
	Adolfo Cuesta	UCSF	Developing lysine-targeted covalent probes of the Hsp90 family
	Christian Bache Billesboelle	UCSF	Molecular mechanisms of the hepcidin-ferroportin axis
20:30 - 22:00	Reception with Buffet		Poolside

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ing, May 6, 2018 Gabriel Lander	TSRI CA	Structure and Biology of Cellular Processes (Chair: Carolyn Larabell)		
		Size and resolution limits using conventional EM methods		
Jeffrey Lengyel	FEI	Cryo-tomography: merging of structural and cellular biology		
	TSRI CA	It takes two to cargo: mechanisms of cytoplasmic dynein regulation revealed by cryo-		
,		electron tomography		
Ahmet Yildiz	UC Berkeley	The mechanism of dynein's directionality		
Break				
Carolyn Larabell	UCSF	Cellular CT scans: New views, new insights		
Zev Gartner	UCSF	Building tissues to understand how tissues build themselves		
Seemay Chou	UCSF	Weapons to probes: using toxins to study bacterial cell wall structure		
Andrej Sali	UCSF	Integrative structure and functional anatomy of a nuclear pore complex		
100n, May 6, 2018		Chemical Biology (Chair: Dennis Wolan)		
Phil Dawson	TSRI CA	Making new connections in protein chemistry		
Jack Taunton	UCSF	Small-molecule interrogation of proteostasis		
Dennis Wolan	TSRI CA	A dipeptidyl aminopeptidase from a commensal bacterium degrades human		
		antimicrobial peptides		
Matthew Francis	UC Berkeley	Chemically modified viral capsids for in vivo delivery applications		
Break	·			
		Membrane Proteins (Chair: Robert Fletterick)		
Mark Yeager	University of Virginia	"Ball-and-Chain" mechanism for pH-gating of gap junction channels revealed by		
		CryoEM, crosslinking and HDX mass spectrometry		
Robert Stroud	UCSF	How a voltage sensor works to activate an ion channel		
Jian Payandeh	Genentech	Structural basis for dual-mode inhibition of an ABC transporter		
Aashish Manglik	UCSF	Structural dynamics of opioid action		
Sponsor Dinner, by invitation only – The Rib				
ning, May 7, 2018		Sponsors (Chair: Andrej Sali)		
Andrea Cochran	Genentech	Unraveling the biology of bromodomain reader modules		
Kyle Landgraf and	Reflexion	Beyond antibodies: targeting VEGF and PD-1 with synthetic D-proteins		
Paul Marinec				
David L. Sloane	Nektar	NKTR-255: A new player in immune-oncology		
Break				
	Danielle Grotjahn Ahmet Yildiz Break Carolyn Larabell Zev Gartner Seemay Chou Andrej Sali noon, May 6, 2018 Phil Dawson Jack Taunton Dennis Wolan Matthew Francis Break Mark Yeager Robert Stroud Jian Payandeh Aashish Manglik Sponsor Dinner, by invi ning, May 7, 2018 Andrea Cochran Kyle Landgraf and Paul Marinec David L. Sloane	Danielle GrotjahnTSRI CAAhmet YildizUC BerkeleyBreakUCSFCarolyn LarabellUCSFZev GartnerUCSFSeemay ChouUCSFAndrej SaliUCSFNoor		

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Monday	y Morning, May 7, 2018 (continued)		Sponsors (Chair: Andrej Sali)
10:20	Glen Spraggon	GNF	Kinetoplastid growth inhibitors from molecules to cells
10:40	Eswar Narayan	DuPont Pioneer	Trait discovery & applications in Ag Biotech
11:00	Tom Evans	New England Biolabs	Cappable-seq: using next-generation sequencing as a lens into RNA dynamics
11:20	Debanu Das	Accelero Biostructures	New paradigms for high-throughput protein X-ray crystallography in small molecule and biologics drug discovery
11:40	Jill Chrencik	Merck	Protein engineering strategies for drug discovery of difficult targets
Monday	y Afternoon, May 7, 2018		Nucleic Acids, Nucleic Acid Binding Proteins & Complexes (Chair: Katrin Karbstein)
16:00	Robert Fletterick	UCSF	Nurr1 nuclear receptor
16:20	Kendall Nettles	TSRI FL	Structural rules for allostery in the steroid receptors
16:40	Doug Kojetin	TSRI FL	A structural mechanism for directing inverse agonism of PPARy
17:00	David Millar	TSRI CA	Functional coordination in DNA polymerases
17:20	Break		
17:40	Katrin Karbstein	TSRI FL	Quality control in 40S ribosome assembly
			Immunology and Microbial Pathogens (Chair: Jim Paulson)
18:00	Jim Paulson	TSRI CA	Putting the brakes on mast cells
18:20	lan Wilson	TSRI CA	Neutralizing antibodies and vaccine design for malaria
Tuesday	y Morning, May 8, 2018		Computation, Proteomics, Systems Biology and Design (Chair: Robert Stroud)
08:50	Martin Kampmann	UCSF	Molecular and cellular determinants of protein aggregation in neurodegenerative diseases
09:10	Hao Li	UCSF	Systems biology of cellular aging
09:30	John Yates	TSRI CA	"Molecular Painting" using mass spectrometry
09:50	Break		
10:10	Elizabeth Getzoff	TSRI CA	The clock is ticking
10:30	Michel Sanner	TSRI CA	Advances in peptide docking
10:50	Art Olson	TSRI CA	Modeling and visualizing cellular environments
11:10	Ian Wilson and Andrej Sal	li	Closing Remarks

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