Workshop Schedule

Sunday, July 27

17:00-18:30 TSIC Meet & Greet, Cash Bar

Telluride Innovation Center, at 300 S Townsend St.

Monday, July 28

Location: Telluride Intermediate School

7:30-8:30	Breakfast at TSRC
8:50-9:00	Opening Comments

Session 1. Moderator: Akio Kitao

9:00–9:50	Megan Thielges	Dynamic substrate recognition of cytochrome P450s
9:50–10:40	Takahisa Yamato	Intramolecular thermal transport of proteins and energy dissipation at the protein-solvent interface
10:40-11:10	Break	
11:10–12:00	R. Brian Dyer	Acceleration of catalysis by photothermal excitation of a network of coupled motions in dihydrofolate reductase
12:00-	Free afternoon	•
18:00-20:00	Informal dinner meet- up	Brown Dog Pizza 110 E. Colorado Ave

Tuesday, July 29

Location: Telluride Intermediate School

7:30–9:00 Breakfast at TSRC

Session 2. Moderator: Rafael Brüschweiler

9:00-9:50	Arthur G. Palmer III	Conformational dynamics govern protein
		function: Insights from NMR

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spectroscopy

and molecular dynamics simulations

9:50–10:40 **Saeko Yanaka** Unraveling antibody function: an

integrative approach to structure,

dynamics, and interaction

10:40-11:10	Break	
11:10–12:00	Francesca Massi	Probing the protein dynamics of profilin-1 and TDP43: function and dysfunction in two ALS-linked proteins
12:00-14:00	Lunch	two ALDS inneed proteins
Session 3. Modera	tor: Takahisa Yamato	
14:00–14:50	Akio Kitao	Binding mechanisms and effects of intrinsically disordered regions of proteins
14:50–15:40	Xuhui Huang	Machine learning non-Markovian models of protein dynamics: from RNA polymerase inhibition to targeted protein degradation
18:30–19:15	Town Talk: Milan Delor , Columbia University	What If the Future of Computing Isn't Silicon? Telluride Conference Center, 580 Mountain Village Blvd
Wednesday, July Location: Samueli	30 Room, Innovation Center	
T:30–9:00	Room, Innovation Center Breakfast at TSRC Free morning	
7:30–9:00 9:00-14:00	Room, Innovation Center Breakfast at TSRC Free morning	Origin of the difference in proton transport direction between inward and outward proton-pumping rhodopsins
7:30–9:00 9:00-14:00 Session 4. Modera	Room, Innovation Center Breakfast at TSRC Free morning tor: Brian Dyer	direction between inward and outward
7:30–9:00 9:00-14:00 Session 4. Modera 9:00–9:50	Breakfast at TSRC Free morning tor: Brian Dyer Yasuhisa Mizutani	direction between inward and outward proton-pumping rhodopsins Visualizing excitonic and primary structural dynamics in photoactive proteins by ultrafast coherent vibrational

12:00-14:00 Lunch

Session 5. Moderator: Satoshi Takahashi

14:00–14:50	Lalit Deshmukh	Dynamic interplay among ubiquitination and phase separation in a minimal reconstructed HIV-1 budding system
14:50–15:40	Rafael Brüschweiler	K-Ras on the move on ns – ms dynamics by NMR and MD
15:40-16:10	Break	by INIVIR and IVID
16:10-17:00	Stephanie Wankowicz	How Proteins Optimize Binding: The Role of Pocket Rigidity and Distal Flexibility
18:00-20:00	TSIC Picnic	

Thursday, July 31

Location: Samueli Room, Innovation Center

7:30–13:00 Free morning

Session 6. Moderator: Francesca Massi

13:00–13:50	Ryota Iino	Rational engineering of high performance artificial molecular motors
13:50–14:40	Toshifumi Mori	Investigating the roles of ATP in biomolecular environments: from energy source to hydrotrope
14:40-15:00	Workshop Wrap-Up &	Committee Selection