**TSRC Workshop on Macromolecular Crowding**

**Telluride, Colorado, July 16-20, 2019**

Monday Evening, July 15

|  |  |
| --- | --- |
| **5:00-6:30** | **MIXER at Oak, 250 W San Juan Avenue (Gus's Way; below Camels Garden Hotel and near gondola).** |

Tuesday Morning, July 16

|  |  |
| --- | --- |
| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10** | Klaus Huber(University of Paderborn) **Mimicking Nature – Self-Assembly of a Synthetic Dyestuff under Crowding Conditions** |
| **9:10-9:50** | Stéphane Longeville (Laboratoire Léon Brillouin, France)  **Chain compression due to macromolecular crowding.** |
| **9:50-10:30** | Kristin Slade (Hobart and William Smith Colleges) **Excluded volume effects on enzyme kinetics are all about the details** |
| **10:30-10:45** | **COFFEE BREAK** |
|  | **Joint session with Intrinsically Disordered Proteins** |
| **10:45-11:25** | Richard Kriwacki (St. Jude Children’s Research Hospital)  “IDPs in Regulation of Key Biological Processes through Phase Separation” |
| **11:25-12:05** | Margaret Cheung(University of Houston)  ***Critical phenomena in the temperature-pressure-crowding phase diagram of a protein*** |

Tuesday afternoon/evening, July 16

|  |  |
| --- | --- |
|  | **Free time – group activities (hiking, mountain bike, etc…)** |
| **7:00** | **The town talk has been canceled.** |

Wednesday morning, July 17

|  |  |
| --- | --- |
| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |
| **8:30-noon** | **Free time – group activities (hiking, mountain bike, etc…)** |

Wednesday afternoon/evening, July 17

|  |  |
| --- | --- |
| **1:45-2:25** | Shahar Sukenik (University of California Merced)**Tuning the activity of disordered proteins by changing solution conditions** |
| **2:25-3:05** | Daniel Harries (*The Hebrew University*)  **How Osmolytes Modulate Lipid Interactions** |
| **3:05-3:20** | **COFFEE BREAK** |
| **3:20-4:00** | Ben Schuler (University of Zurich) **Depletion interactions modulate coupled folding and binding in crowded environments** |
| **4:00-4:40** | Tom Record (UW Madison) **Chemical and Excluded Volume Interactions of PEG and PVP with Proteins** |
| **6:00-7:00** | BBQ dinner in TSRC tent outside the school; food, soft drinks, beer & wine provided |
|  | **Joint Session with “Crowding” workshop** |
| **7:00-7:40** | **Vince Hilser, Johns Hopkins University** “Disorder and bi-directional allostery” |
| **7:40-8:30** | ***Gary Pielak, University of North Carolina, Chapel Hill; “***Understanding protein behavior in cells” |

Thursday morning, July 18

|  |  |
| --- | --- |
| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10** | Wylie Stroberg (University of Michigan)  **Chemical sensing in crowded environments** |
| **9:10-9:50** | Caitlin M. Davis (University of Illinois at Urbana-Champaign) **Tuning protein stability in vitro and in cells** |
| **9:50-10:30** | Jaan Männik (University of Tennessee) **Interplay of Polydisperse Set of Crowders in Compacting Escherichia coli Nucleoid** |
| **10:30-10:45** | **COFFEE BREAK** |
| **10:45-11:25** | Yuji Sugita (RIKEN Institute) **Slow-down of protein and metabolite diffusion in protein crowded solution.** |
| **11:25-12:05** | Fabio Sterpone (LBT/IBPC)  **Toward microscopic simulations of crowded cell-like environments.** |
| **12:05-12:45** | Peter B. Crowley (NUI Galway)  **Porous Protein Crystals** |

Thursday afternoon, July 18

|  |  |
| --- | --- |
|  | **Free time – group activities (hiking, mountain bike, etc…)** |

Friday morning, July 19

|  |  |
| --- | --- |
| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |
| **8:30-9:10** | Prija Banerjee (University at Buffalo)  **On the Molecular Driving Forces of Ribonucleoprotein Condensation** |
| **9:10-9:50** | Shana Elbaum-Garfinkle (City University of New York) **Protein phase separation and emergent material properties** |
| **9:50-10:30** | Loren Hough (University of Colorado Boulder)  **Molecular consequences of yeast cellular stress measured by in cell NMR** |
| **10:30-10:45** | **COFFEE BREAK** |
| **10:45-11:25** | Huan-Xiang Zhou (University of Illinois at Chicago) **Physical Basis of Protein Liquid-Liquid Phase Separation** |
| **11:25-12:05** | Andrea Soranno (Washington University in St Louis)  **Single-molecule spectroscopy reveals polymer effects in crowding** |

Friday afternoon/evening, July 19

|  |  |
| --- | --- |
|  | **Free time – group activities (hiking, mountain bike, etc…)** |
| **7:00-9:00** | We are invited to the Group Dinner of the “IDP” Workshop. Pizza Party w/ drinks in the TSRC tent ($45 each, paying guests welcome) |

Saturday morning, July 20

|  |  |
| --- | --- |
| **8:00-8:30** | **BREAKFAST AT THE SCHOOL** |