

## TSRC Workshop on Phase Separation in Biology and Disease

March 3-8, 2024

Venue: Ah Haa School for the Arts, 155 W Pacific Ave., Telluride, CO 81435, in The Launchpad Room (top floor).

### Sunday evening, March 3

5-6:30 pm	<b>MIXER at Oak, 250 W San Juan Ave, Telluride, CO 81435</b> (opposite gondola station, in back of plaza)
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### Monday March 4

8:00-8:30 am	<b>BREAKFAST at Baked in Telluride, 127 S Fir St, Telluride, CO 81435.</b> <b>Please pick-up your \$50 gift card from TSRC at the Mixer, or at the venue.</b>
	<b><u>Session chair: Shana Elbaum-Garfinkle</u></b>
8:30-9:10 am	<b>Richard Kriwacki, St. Jude Children's Research Hospital</b> ( <a href="mailto:Richard.kriwacki@stjude.org">Richard.kriwacki@stjude.org</a> ) "Multiphase behavior in the nucleolus & predicting IDRs that form condensates"
9:10-9:50 am	<b>Steven Boeynaems, Stanford University</b> ( <a href="mailto:sboeynae@stanford.edu">sboeynae@stanford.edu</a> ) "Condense to kill"
9:50-10:10 am	<b>BREAK</b>
10:10-10:50 am	<b>Diana Mitrea, Dewpoint Therapeutics</b> ( <a href="mailto:dmitrea@dewpointtherapeutics.com">dmitrea@dewpointtherapeutics.com</a> ) "C-mods: a revolution in drug discovery"
10:50-11:30 am	<b>Jim Shorter, University of Pennsylvania</b> ( <a href="mailto:jshorter@penmedicine.upenn.edu">jshorter@penmedicine.upenn.edu</a> ) "Countering deleterious phase transitions in ALS/FTD"
Afternoon	<b>Free Time → Explore the outdoors</b>

### Tuesday March 5

8:00-8:30 am	<b>BREAKFAST at Baked in Telluride</b>
	<b><u>Session chairs: Liam Holt &amp; Lucia Strader</u></b>
8:30-9:10 am	<b>Bahar (eh) Eftekhazadeh, Nereid Therapeutics</b> ( <a href="mailto:Bahareh@nereidtx.com">Bahareh@nereidtx.com</a> ) "Novel condensate-modifying therapeutics target biomolecular interactions to unlock difficult-to-drug proteins"
9:10-9:50 am	<b>Eliezer Calo, MIT</b> ( <a href="mailto:calo@mit.edu">calo@mit.edu</a> ) "Condensate Dynamics in the Nucleolus and its Implications for Disease Mechanisms"
9:50-10:10 am	<b>BREAK</b>
10:10-10:50 am	<b>Serena Sanulli, Stanford University</b> ( <a href="mailto:ssanulli@stanford.edu">ssanulli@stanford.edu</a> ) "Regulation and function of HP1 compartments"
10:50-11:30 am	<b>Huaiying Zhang, Carnegie Mellon University</b> ( <a href="mailto:huaiyinz@andrew.cmu.edu">huaiyinz@andrew.cmu.edu</a> ) "Protein condensate growth in the nucleus"
Afternoon	<b>Free Time → Explore the outdoors</b>

### Wednesday March 6

8:00-8:30 am	<b>BREAKFAST at Baked in Telluride</b>
	<b><u>Session chairs: Diana Mitrea &amp; Oliver Mueller-Cajar</u></b>
8:30-9:10 am	<b>Gable Wadsworth, University at Buffalo, SUNY</b> ( <a href="mailto:gablewad@buffalo.edu">gablewad@buffalo.edu</a> ) "Phase Separation and Percolation Transitions in RNA Condensates"
9:10-9:50 am	<b>Christopher Reinkemeier, ETH Zurich</b> ( <a href="mailto:Christopher.Reinkemeier@bsse.ethz.ch">Christopher.Reinkemeier@bsse.ethz.ch</a> ) "Synthetic organelles to engineer mammalian cells"

9:50-10:10 am	<b>BREAK</b>
10:10-10:50 am	<b>Lucia Strader, Duke University</b> ( <a href="mailto:lucia.strader@duke.edu">lucia.strader@duke.edu</a> ) “The effects of force on condensation”
10:50-11:30 am	<b>Lukas Bugaj, University of Pennsylvania</b> ( <a href="mailto:bugaj@seas.upenn.edu">bugaj@seas.upenn.edu</a> ) “Detecting and dissecting RTK fusion condensates in cancer”
Afternoon	<b>Free Time → Explore the outdoors</b>
5:30 – 6:30 pm	<b>Discuss <i>J. Mol. Biology Special Issue on Biomolecular Condensates</i></b>

## Thursday March 7

8:00-8:30 am	<b>BREAKFAST at Baked in Telluride</b>
	<b><u>Session chair: Markus Zweckstetter &amp; Serena Sanulli</u></b>
8:30-9:10 am	<b>Markus Zweckstetter, University of Gottingen; DZNE</b> ( <a href="mailto:mazw@nmr.mpibpc.mpg.de">mazw@nmr.mpibpc.mpg.de</a> ) “Understanding and modifying Tau condensation”
9:10-9:50 am	<b>Yohan Lee, Stachowiak lab, University of Texas, Austin</b> ( <a href="mailto:yohan.lee@austin.utexas.edu">yohan.lee@austin.utexas.edu</a> ) “Phase separation of biomolecules on freestanding two-dimensional membranes”
9:50-10:10 am	<b>BREAK</b>
10:10-10:50 am	<b>Dragomir Milovanovic, DZNE</b> ( <a href="mailto:drago.milovanovic@gmail.com">drago.milovanovic@gmail.com</a> ) “Condensate biology in synaptic physiology and disease”
10:50-11:30 am	<b>Oliver Mueller-Cajar, Nanyang Technological University</b> ( <a href="mailto:cajar@ntu.edu">cajar@ntu.edu</a> ) “The condensed life of marine eukaryotic red Rubiscos”
Afternoon	<b>Free Time → Explore the outdoors</b>
6 pm	<b>Group Dinner @ Oak, 250 W San Juan Ave, Telluride, CO 81435</b> (Free for workshop participants and their guests; veg and non-veg items to be provided; located next to town gondola station)

## Friday March 8

8:00-8:30 am	<b>BREAKFAST at Baked in Telluride, 127 S Fir St, Telluride, CO 81435.</b>
	<b><u>Session chair: Richard Kriwacki</u></b>
8:30-9:10 am	<b>Liam Holt, New York University</b> ( <a href="mailto:ljholt@gmail.com">ljholt@gmail.com</a> ) “RNA condensation fluidizes the cytoplasm”
9:10-9:50 am	<b>Benjamin Sabari, UT Southwestern</b> ( <a href="mailto:Benjamin.Sabari@UTSouthwestern.edu">Benjamin.Sabari@UTSouthwestern.edu</a> ) “Nuclear organization by transcriptional condensates”
9:50-10:10 am	<b>BREAK</b>
10:10-10:50 am	<b>Shana Elbaum-Garfinkle, ASRC, CUNY</b> ( <a href="mailto:selbaumgarfinkle@gc.cuny.edu">selbaumgarfinkle@gc.cuny.edu</a> ) “Tunable properties and dynamics of biomolecular condensates”
Afternoon	<b>Free Time / Safe travels!</b>