



2022 CCBM Workshop

Nov. 30-Dec. 2, 2022

University of California, Merced – Nov. 30 and Dec. 2

Tenaya Lodge near Yosemite National Park – Dec. 1

In person attendance only for attendees.

2022 CCBM Workshop Website - <https://ccbm.ucmerced.edu/research/2022-ccbm-workshop>

WED, Nov. 30 (UC Merced, UC Merced Conference Center)

4:00 pm, Reception

4:25-4:30 pm, Welcome, Internal Speaker – Victor Muñoz, University of California, Merced

4:30-5:00 pm, Presentation 1, Internal Speaker – Stephanie Woo, University of California, Merced (30 min) - *Optimizing an Optogenetic Gene Expression for Use in Zebrafish Embryos*

5:00-5:45 pm, Presentation 2, External Speaker / Keynote – Christopher Rao, University of Illinois at Urbana-Champaign (45 min) - *Counting & Control in Bacterial Motility*

6:00 pm, Reception / 6:30 pm, Dinner - for Workshop participants (External attendees / CCBM faculty, scientists, staff, postdocs, and affiliates – by invitation only)

THURS, Dec. 1 (Tenaya Lodge near Yosemite)

(External attendees / CCBM students, faculty, scientists, staff, postdocs, and affiliates – limited spots – attendees will be contacted to confirm their spot)

7:40 am, Transit Center, UC Merced (bus to park there to wait for guests) - all guests and those attending trip arrive to UC Merced

8:00 am, UC Merced pick up – Departure to Tenaya Lodge / Yosemite National Park

10:00-10:30 am, Arrival

10:00/10:30 – 12:00 pm, Free time

12:00 pm, Lunch Served

12:15-12:45 pm, Presentation 3 – Internal Speaker – Roberto C. Andresen Eguiluz, University of California, Merced (30 min) - *pH-dependent Interfacial Adhesion of Hydroxypyridinone-based Surface Primers as Wet Adhesives*

12:45-1:30 pm, Presentation 4 – External Speaker / Keynote – Brenton Hoffman, Duke University (45 min - virtual) - *Regulation of Mechanical Coupling during Collective Cell Migration*

1:30-3:45 pm, Free Time / Bus Trip to Wawona or other location (depending on weather)

3:45 pm, Reception (with cash bar)

4:30-5:15 pm, Presentation 5 – External Speaker / Keynote – Sanjeevi Sivasankar, University of California, Davis (45 min) - *Biophysics of Cadherin Adhesion: How Cell Adhesion Proteins Respond to Force*

5:15 pm, Dinner served

6:15 pm, Departure

8:15-8:45 pm, Arrive at UC Merced

FRI, Dec. 2 (UC Merced / Conference Center)

8:00 am, Welcome / Breakfast

8:55 am, Welcome – Ajay Gopinathan, University of California, Merced

9:00-9:30 am, Presentation 6 – Internal Speaker – Victor Muñoz, University of California, Merced (30 min) - *Engineered Protein Decoys for Diagnostics of Viral Diseases: Strategies for Achieving Attomolar Capture and Detection without Amplification*

9:30-10:00 am, Presentation 7 – Internal Speaker – Anand Subramaniam, University of California, Merced (30 min) - *A Cell-mimetic In Vitro Experimental Model for Intercellular Variation Reveals the Effects of Concentration on a Circadian Oscillator*

10:00-10:30 am, Presentation 8 – Internal Speaker – Eva de Alba, University of California, Merced (30 min) – *Cell-free Assembly and Visualization of the Initial Stages of the AIM2 Inflammasome*

10:30 am, Break

10:45-11:30 am, Presentation 9 – External Speaker / Keynote – Ron Weiss, Massachusetts Institute of Technology (45 min) - *Mammalian Synthetic Biology Foundations and Application to Programmable Organoids*

11:30 am-12:00 pm, Discussions

12:00-1:00 pm, Lunch served / Discussions

1:00-1:45 pm, Presentation 10, External Speaker / Keynote – Jennifer Doudna, University of California, Berkeley (45 min - virtual) - *A Decade of CRISPR: Opportunities of Genome Editing*

1:45-2:15 pm, Presentation 11, Internal Speaker – Shahar Sukenik, University of California, Merced (30 min) - *Engineering Structure & Function in Intrinsically Disordered Proteins*

2:15-3:15 pm, Poster Session (CCBM Students lead poster talks)

3:15-3:45 pm, Presentation 12 – Kara McCloskey, University of California, Merced (30 min) – *Cell Phenotype in Vascular Assembly*

3:45-4:30 pm, External Speaker / Keynote – Jeff Hasty, University of California, San Diego (45 min - virtual) – *Engineered Gene Circuits for Cancer Therapeutics*

5:00 pm, Reception, Hi-Fi Wine, Merced (External attendees / CCBM faculty, scientists, staff, and affiliates – by invitation only) – with cash bar

6:30 pm, Dinner, Restaurant Location TBD, Merced (External attendees / CCBM faculty, scientists, staff, postdocs, and affiliates – by invitation only) – with cash bar

Presentations:

External - 35 min presentation / 10 min questions = 45 min total

Internal - 25 min presentation / 5 min questions = 30 min total

Parking at Conference Center / University Lot for external speakers.

[Campus Map](#)

Questions? Contact:

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