Research – investigating how biological matter like proteins or cells come together to perform specific tasks, in hopes of eventually engineering & developing innovations ranging from designer cells & tissue to novel diagnostic & therapeutic devices. Education / Training / Broadening Participation – Hosting an integrated, interdisciplinary training program for graduate students emphasizing physical/biological - leading research & training experiences for undergraduate & high school students to enhance the recruitment of underrepresented groups into STEM fields. Outreach – leading engaging outreach experiences open to the community and beyond.

Open to all - students, faculty, staff, and community

2022 CCBM Workshop:
Synthetic Biology and Biomimetics

Nov. 30 – Dec. 2, 2022
UC Merced Conference Center (11/30, 12/2) & Tenaya Lodge / Yosemite (12/1)

Jennifer Doudna
UC Berkeley
2020 Nobel Prize in Chemistry
A Decade of CRISPR: Opportunities of Genome Editing

Sanjeevi Sivasankar
UC Davis
Biophysics of Cadherin Adhesion: How Cell Adhesion Proteins Respond to Force

Eva de Alba
UC Merced
Cell-free Assembly and Visualization of the Initial Stages of the AIM2 Inflammasome

Shahar Sukenik
UC Merced
Engineering Structure & Function in Intrinsically Disordered Proteins

Jeff Hasty
UC San Diego
Engineered Gene Circuits for Cancer Therapeutics

Christopher Rao
University of Illinois at Urbana-Champaign
Counting & Control in Bacterial Motility

Ron Weiss
MIT
Mammalian Synthetic Biology Foundations & Application to Programmable Organoids

Stephanie Woo
UC Merced
Optimizing an Optogenetic Gene Expression for Use in Zebrafish Embryos

Roberto C. Andresen
Eguiluz
UC Merced
pH-dependent Interfacial Adhesion of Hydroxypyridinone-based Surface Primers as Wet Adhesives

Anand Subramaniam
UC Merced
A Cell-mimetic In Vitro Experimental Model for Intercellular Variation Reveals the Effects of Concentration on a Circadian Oscillator

Brenton Hoffman
Duke University
Regulation of Mechanical Coupling during Collective Cell Migration

Register / More Info

Contact: CCBM Executive Director, Carrie Kouadio, ekouadio@ucmerced.edu

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