

## University of California, Merced

The NSF-CREST Center for Cellular and Biomolecular Machines uses an interdisciplinary approach combining physical, biological, and engineering methods to understand and control the functioning of multi-scale assemblies of biomolecules and cells, and to design and develop novel bio-inspired functioning machines ranging from designer cell and tissue to diagnostic and therapeutic devices. The center also focuses on enhancing biophysics, biochemistry, and bioengineering graduate and undergraduate education; leading STEM outreach activities in the Merced area for teachers, students, and the community; and broadening participation in STEM fields.

## 2019 CCBM WORKSHOP: November 8 - 9, 2019

Sponsored by



David

Boston

**fisher** Scientific



Open to all students, faculty, staff and local community. Guest parking in Bellevue Lot -- taps.ucmerced.edu



Topic: "Mending Broken Hearts, the CELL-MET ERC"



**EI-SAMAD** University of California,

SAIF

Hana

Topic: "Biological Feedback Control"



Topic: "Physics of Bacterial Growth"



Topic: "Emerging Living Machines"



Ten external speakers to present on scientific topics that overlap with the CREST Center's research areas and best practices in bringing research impacts to society.

Highlights: scientific talks, broader impacts, poster session, collaborative discussions, networking, and breakout sessions.

Friday, November 8: California Room, UC Merced (open to all) Saturday, November 9: Yosemite National Park (by invitation)



Roger D. Kamm

Topic: "The Promise Of Multi-cellular Engineered Living Systems"



Vivek SHENOY

University of Pennsylvania

Topic: "Cell-Matrix Interactions in Cancer: Multiscale ChemoMechanical Models"



Steven M. BLOCK

Stanford University

Topic: "Optical Tweezers: Biophysics in a New Light"



Hernan G. GARCIA

University of California, Berkeley

Topic: "Dissecting Transcriptional Dynamics in Development One Burst at a Time"



Topic: "Protein Folding On and Off the Ribosome"



Sara VASSMER

University of Missouri

Topic: "Broader Impacts: Best Practices, Tools and Resources for Success"



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