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 cells and tissue to diagnostic and therapeutic devices. The center also focuses on enhancing biophysics, biochemistry and bioengineering graduate and undergraduate education and training; leading STEM outreach activities for teachers, students, and the community; and broadening participation in STEM fields.

CCBM Virtual Sessions
Summer / Fall 2020
Open to All / STEM - College - Careers
for K-12 Students & Teachers / Free / via Zoom

June & July 2020

What's the Matter with Matter?
for High School & Middle School Students
with Professor Roberto C. Andresen Eguiluz
June 29-July 2, 10:00-10:45 am Pacific (PDT)

Time to Grow: Your Learning Journey
for High School Students
with John Newton
July 1, 11:00 am-12:00 pm Pacific (PDT)

How Would You Build a Machine that Sorts Cells?
for High School Students / Teachers
with Dr. David Gravano
July 13, 15, 17, 11:00 am-12:00 pm Pacific (PDT)

Understanding Living Systems through Scientific Computing
for High School Students
with Professor Ajay Gopinathan
July 13, 2:00-3:00 pm Pacific (PDT)

The Science of Flocks and Swarms
for Elementary Students (Grades 4-5)
with Professor Ajay Gopinathan
July 14, 2:00-3:00 pm Pacific (PDT)

Explore DNA / Hands-on Investigation
for Elementary Students (Grades K-5) / Teachers
with Professor Xuecai (Susan) Ge
July 16, 10:00-11:00 am Pacific (PDT)

Cell Division on a Computer
for High School Students / Teachers
with Professor Kinjal Dasbiswas & Patrick Noerr
July 20, 22, 24, 1:00-1:45 pm Pacific (PDT)

College Readiness and STEM Disciplines
for High School Students
with Dr. Petia Gueorguieva
July 22, 2:00-3:00 pm Pacific (PDT)

Introduction to Computer Simulations in Physics, from Forest Fires to Salad Dressing
for High School & Middle School Students / Teachers
with Professor Daniel Beller
July 28, 29, 30, 31, 2:00-3:00 pm Pacific (PDT)

August, September, & October 2020

Time to Grow
for High School & Middle School Students
with Teri Sotelo-Campos
Aug. 12, 3:30-4:15 pm Pacific (PDT)

College Bound
for High School & Middle School Students
with Teri Sotelo-Campos
Aug. 13, 3:30-4:15 pm Pacific (PDT)

Lights - Action: Controlling Bacteria with Light
for High School Students & Teachers
with Professor Arvind Gopinath and Joshua Tamayo
Aug. 18-21, 3:30-4:15 pm Pacific (PDT)

Ethics in Research: How Far is Too Far?
for High School & Middle School Students
with Dr. Daniel Wong
Aug. 26, 10:30-11:45 am Pacific (PDT)

How to Win at Work:
Making an Impact in Your Field
for High School & Middle School Students
with Dr. Daniel Wong
Aug. 27, 10:30-11:45 am Pacific (PDT)

College Readiness and STEM Disciplines
for High School Students
with Dr. Petia Gueorguieva
Sept. 2, 10:30-11:30 am Pacific (PDT)

Combatting Misinformation
by Introducing Peer-Reviewed Journals into the Science Classroom
for Teachers
with Melissa Goodlad
Oct. 7, 4:00-5:15 pm Pacific (PDT)

In Partnership with CalTeach

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