

THE JOHN LAWRENCE SEMINARS



"QUANTITATIVE CORRELATIVE LIGHT AND ELECTRON MICROSCOPIES"

DORIT HANEIN, PH.D.

**SANFORD BURNHAM
MEDICAL RESEARCH INSTITUTE**

Dr. Hanein's central biological interest is the nanometer-scale structure of the actin cytoskeleton, the girders and cables that control the shapes and movements of cells. The anchoring sites of these girders are mechanosensitive assemblies that transmit force across the cell membrane and regulate biochemical signals in response to changes in the mechanical environment. Here, Dr. Hanein will describe how a hybrid-method approach combining correlative light and electron microscopy, cellular electron cryo-tomography, image analysis, computational approaches, and biophysical tools allows direct visualization and quantification of single molecular components of these fascinating mechanosensing nano-machines in three dimensions while in their native cellular environment.

**WED., MAY 11TH
4:00 P.M.**

(note the day)

**BERKELEY LAB
AQUATIC PARK
717 POTTER STREET
ROOM 141**

**HOST:
MANFRED AUER**

Schedule of Seminars: <http://johnlawrenceseminars.lbl.gov>
Non-LBNL attendees: please RSVP to FGuagliardo@lbl.gov or 510-486-6490