

DICKERSON BIOCHEMISTRY SEMINAR SERIES



Crosstalk between cytoskeletal machineries in cells

•••
Prof. Tatyana Svitkina
University of Pennsylvania

My laboratory investigates roles of the actin cytoskeleton in various cellular activities, such as cell motility, morphogenesis, cell shape determination, cell-cell interactions and membrane organelle dynamics. Our distinctive approach toward this goal is to use platinum replica electron microscopy (PREM) to determine high resolution structure of the cytoskeleton and combine it with more conventional approaches to study dynamics of the cell, cellular organelles, or specific proteins. I will present our recent and new findings on (i) the role of microtubules in regulating assembly of branched actin networks, (ii) cytoskeletal mechanisms of clathrin-mediated endocytosis and (iii) cooperation between nonmuscle myosin II paralogs for the assembly of the cellular contractile system.

Friday, March 10th at 3:30pm
Mani L. Bhaumik Collaboratory,
Dongwon Yoo Seminar
& Conference Hall (Young Hall 4222)

Host: Bryan Christian (Quinlan Lab)

More information: marla@chem.ucla.edu