BDR SEMINAR (Kobe & online hybrid)

Mechanobiology Seminar Series presents

Madan Rao

National Centre for Biological Sciences, India

Friday, May 30, 2025

15:00-16:00

8F Hall, Integrated Innovation Building (IIB) / Broadcast online via Zoom *For those who wish to participate online should contact the seminar host.

Active Living Cellular Membranes

Summary

The living state of the cell is maintained away from equilibrium by active stresses and fluxes arising from a variety of cellular processes. I will argue that living membranes are often maintained in an unstable configuration by precise cellular control mechanisms. I will illustrate these ideas in the context of the active plasma membrane which is driven by active processes arising from the actomyosin cortex and the variety of flippases, and the Golgi membrane in the intracellular trafficking pathway that is driven by fission-fusion. If time permits, I will discuss the implications of such controlled unstable states.

