

How does the Antagonism between Capping and Anti-Capping Proteins Affect Actin Network Dynamics?

Longhua Hu and Garegin A. Papoian (University of Maryland, College Park)

- Cell migration and lamelliopodial protrusion.
- Stochastic simulation of actin network growth.
- Reaction-diffusion system; model Hamiltonian.
- Motility enhancement and inhibition by **capping proteins** and the regulation by **anti-capping proteins**.
- **Density of leading edge filaments**; local monomeric actin availability and load on polymerizing filaments.

