



Department of Biomathematics Seminar Series:
Frontiers in Systems and Integrative Biology

Mathematical Modeling of Chromosomal Transport Mechanisms



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53-105 CHS

Center for the Health Sciences

ABSTRACT:

The generation of directed movement of cellular components frequently requires the rectification of Brownian motion. In this talk, we discuss mathematical models that track bias generation by nano machine constructs that operate during cell division. The efficient operation of these dynamic constructs requires specific interactions with dynamic bio polymers. We use first passage techniques to derive mesoscale properties for these motor constructs using microscale rates and reactions.

Host: Tom Chou, Ph.D.

To receive e-mail seminar notices, contact David Tomita (dtomita@biomath.ucla.edu)

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