

BiophysTO Lunchtime Seminar Series

Date

Thursday, Nov. 2, 2017
12:00-1:00

Location

Council Chambers, UTM

Streaming

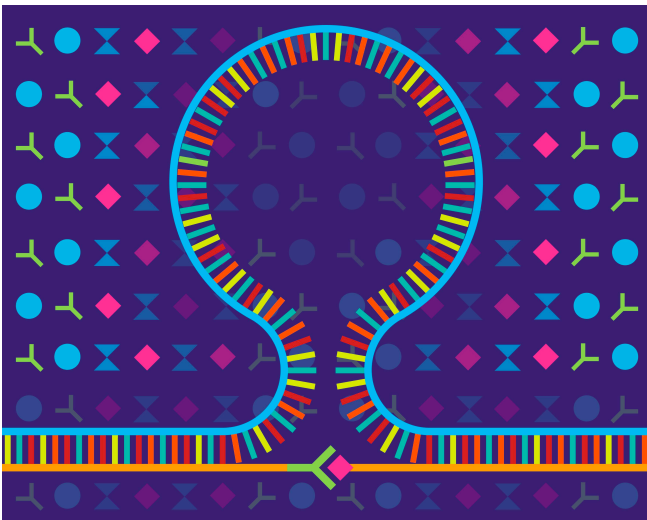
Seminar live streamed to
MP606 @ St. George

**Pizza & refreshments
provided**

Dr. Wesley Wong

Harvard Medical School

Single-Molecule Approaches to Mechanobiology: From DNA Nanoswitches to the Centrifuge Force Microscope



Mechanical force plays a critical role in regulating many aspects of biological function and structure, particularly at the nanoscale. My research group develops and applies methods in single-molecule manipulation to understand the force-dependent dynamics of biological interactions. I will present some methods that we are developing, including massively parallel single-molecule force measurements using centrifugal force, and nanoscale devices built using DNA origami, and demonstrate how these approaches can bring new insights into biological processes ranging from blood clotting to hearing.

Host: Dr. Joshua Milstein



**Seminar
Sponsors**

UTM

Chemical and Physical Sciences
VP Research

UTSG

Biochemistry IBBME Medical
Physics Chemistry Biophysics