



Research In Progress Seminar

**Tuesday, May 30,
2017
3:30PM**

**Location: CCBS Conference
Room, 2622 Biological
Sciences 3**

Speaker:

Matt Bovyn, Physics
(Jun Allard and Steve
Gross Labs)

Talk Title:

Cargo navigation across
3D microtubule
intersections

Abstract:

Eukaryotic cells use molecular motors to get cargos to where they need to go. However, the microtubule roads these cargos travel are arranged in a complex network, which the cargos must navigate to get from one place to another. I'll present recently submitted work on how cargos navigate microtubule intersections, consisting of both in vitro experiments and modeling. We find that the outcome of cargo navigation across the intersection (switching tracks, or continuing on) depends on the geometry of the intersection, and investigate mechanisms that influence this outcome.

Questions:

Please contact Naomi Carreon at: ncarreon@uci.edu or Kerrigan Blake at: kerrigab@uci.edu