

Wednesday, April 10, 2019

LSC 3 | 12:00 - 1:00PM



Dr. Christopher McCulloch

Professor and Director, Matrix Dynamics Group
Canada Research Chair (Tier 1), Matrix Dynamics
Full Member, School of Graduate Studies

“Role of Flightless I in Remodeling of the Extracellular Matrix”

Collagen remodeling by phagocytosis and pericellular proteolysis requires cell extension formation, which in turn involves interaction of the actin binding protein Flightless I with non-muscle myosin IIA at cell-matrix adhesion sites. As intracellular calcium plays a central role in controlling actomyosin-dependent functions, we examined the role of calcium in the generation of cell extensions, collagen remodeling and the control of the interactions of Flightless I with non-muscle myosin IIA. In this presentation I will focus on the regulation of calcium influx through Transient Receptor Protein V4 channels and how calcium regulates interactions between Flightless I and non-muscle myosin IIA, which in turn enable generation of cell extensions that are essential for collagen remodeling.

Live Online Seminar Viewing:
<https://meet.ubc.ca/hana.kim/YGHMR41Q>

