Tkach, Colleen

From: Inform
Subject: EM: KECK SCIENCE SEMINAR ANNOUNCEMENT 11/15

From: Soto, Lauran

KECK SCIENCE DEPARTMENT SEMINAR

"Leaders and Followers in Collective Migration, Who's Really in Charge?"

Joseph Campanale, PhD., (he/him)

Molecular, Cellular and Developmental Biology Department, University of California Santa Barbara

Wednesday, November 15, 2023

12:15-1:15 PM

Burns Lecture Hall, Room B31

Talk synopsis: Cells can migrate either individually or in groups known as collectives. Collective migrations are diverse and underlie normal development, wound closure, and cancer metastasis. Recent research suggests cancer cells moving as small groups are 100 times more successful than lone cells at generating new tumors at distant sites. However, how groups of cells move in unison is not completely understood. Decades of research have focused on the leader cells which are at the topological front of the group, produce large dynamic protrusions, and were thought to pull the followers along the migration route. In this seminar I will share two stories on the roles of "leader" and "follower" cells in moving groups. The first story will feature our recent work in fruit fly border cells that provides new insights into leader follower dynamics. This will be followed by new research addressing how cells move together in healthy and tumorous pancreas organoids. These stories will be told through the lens of microscopy with the goal to introduce the world of dynamic cell behaviors, including those that drive development and metastasis.

Find additional seminar information here: https://www.kecksci.claremont.edu/seminars/

Best,
Lauran Soto - Administrative Assistant (she/her)
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