

Tkach, Colleen

From: Inform
Subject: EM: Dept. of Natural Sciences Seminar Friday 11/15

From: Lauran Soto

DEPARTMENT OF NATURAL SCIENCES SEMINAR ANNOUNCEMENT:

"Intracellular Transport: The Cell's Postal Service"

Janet Sheung
Assistant Professor of Physics
Dept. of Natural Sciences

Friday, November 15th
Burns Lecture Hall (NS E007)
12:15-1:00 PM

ABSTRACT: Healthy function of the cells in each of our bodies rely on millions of proteins to be transported to the right place at the right time. Some estimates place the number of proteins in a mammalian cell at 10 billion, dwarfing the 1.6 million packages Amazon Prime handles each day. Elucidating the mechanisms driving intracellular transport will greatly improve drug delivery, but right now many open questions remain. In this talk I will explain my research group's work on this front: by developing a "cell" on a microscope slide that replicates many aspects of intracellular transport, we were able to demystify the effects of ATP, molecular crowding, and cargo topology on this intricate process.

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

Best,
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