הפקולטה לרפואה
FACULTY OF MEDICINE
كلية الطب

Institute for Medical Research Israel-Canada
INNOVATIONS TOUCHING LIVES

SPECIAL SEMINAR

OF A CANDIDATE FOR AN ACADEMIC POSITION

"FUNCTIONAL VARIATION IN LIVING TISSUES"

FEBRUARY 16, 2026| AT 12:10 PM

RUBIN HALL |STUDENT BUILDING

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ABSTRACT

The past decade has brought a revolution in our ability to dissect complex tissues both in vivo and in situ. Despite the richness of emerging cell atlases, they often miss key determinants of tissue function and pathogenesis, whether due to missing regulatory layers, the overlooked impact of rare cell states and their interactions, or the lack of testable models that preserve tissue context. In my talk, I will describe how we combine advanced experimental systems with computational frameworks to unearth the sources of functional variation in vivo and their impact, with emphasis on rare but consequential events. Applied across various biological contexts, this strategy has revealed new pathways that regulate tissue function and adaptation – from immune circuits that shape the tumor microenvironment, to human intestinal cell types that can be induced to act as reserve stem cells, to mitochondrial DNA mutations that impact cellular respiration. Together, this integrative framework transforms static snapshots of tissue heterogeneity into tractable, mechanistic models capable of uncovering new biological insight.

LIGHT REFRESHMENTS WILL BE SERVED BEFORE THE LECTURE

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