

The Biological and Biomedical Joint Seminar Series

(Hosted by the departments of Molecular & Cellular Biology, Chemistry & Biochemistry, Cellular & Molecular Medicine, and Plant Sciences)

“Towards a circuit theory of gut epithelial homeostasis”

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Zoom Meeting @ IIAM

Hosted By: Ted Weinert (MCB)



Epithelial tissues demonstrate the intrinsic ability of their constituent cells to organize and maintain a steady-state of form and function. Many disease states, such as cancer, arise from compromises in these intrinsic controls. Our long-term goal is to uncover an underlying circuit theory behind tissue formation and function – a set of predictive principles revealing how cell fates and tissue patterns arise from simpler signaling inputs. We use biochemistry, high content imaging, and single-cell approaches to study cell fate decision-making of gut epithelium. In my talk, I will explore design features of the Wnt pathway at the cellular and tissue level that lead to accurate fate decision making and tissue patterning.

Zoom Link: <https://arizona.zoom.us/j/85848818129>

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