



Department of Anatomy and Cell Biology

Hosted by Dr. Dieter Reinhardt

“Pressure-Driven Cell Motility in a 3D Extracellular Matrix”

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It is now clear that an individual cell can change how it moves in response to the material surrounding it. My lab is interested in understanding how the structure of the three-dimensional (3D) extracellular matrix dictates the molecular and physical mechanisms driving cell motility. We recently discovered cells use intracellular pressure to power their movement in highly cross-linked 3D matrices. Using a variety of biochemical, biophysical and live cell imaging approaches, the Petrie lab aims to understand how this intracellular pressure is controlled by actomyosin contractility in response to 3D matrix structure.

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11:30 am

**Strathcona Anatomy Building
3640 University Street
Room 2/45**

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