

**DATE:**  
**Monday,**  
**March 26, 2018**

**TIME:**  
4:00 p.m. to 5:30 p.m.

**LOCATION:**  
MDCL 3020

**WEBSITE:**  
[www.demystifyingmedicine.ca](http://www.demystifyingmedicine.ca)

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## Microfluidic devices for medical research, diagnosis, and treatment

### SPEAKERS:



#### **Dr. Jeremy Hirota**

*Canada Research Chair in Respiratory Mucosal Immunology  
Assistant Professor of Medicine – McMaster University  
Assistant Professor of Medicine (Affiliate) - UBC*



#### **Dr. Ravi Selvaganapathy**

*Professor and Canada Research Chair in Biomicrofluidics,  
Department of Mechanical Engineering  
Professor, McMaster School of Biomedical Engineering*

### LEARNING OBJECTIVES:

- Provide an overview of microfluidic technology
- Demonstrate the application of microfluidic technology to artificial placentas
- Recognize the challenges physicians face in distinguishing how a patient will respond to a given therapy for a chronic respiratory disease
- Provide a functional example of precision medicine in cystic fibrosis

**McMaster**  
**University**



**Department of Medicine**

**Michael G. DeGroot**  
**SCHOOL OF MEDICINE**

**Continuing Health**  
**Sciences Education**