

## Seminar and Panel Discussion

### The Exposome: New approaches to decoding the complexity of environmental exposures and interactions

**Friday May 13, 12:00-1:30**  
Room 106 Health Science Building  
155 College St, Toronto, ON M5T 3M7

Many chronic diseases are now believed to be due to a combination of an individual's genome and their cumulative environmental exposure. Exposome, analogous to genome, is a bold conceptual leap, seeking to bridge the roles of the environment and genome in human disease. The University of Toronto just signed a tripartite agreement with Utrecht University and the Chinese University of Hong Kong; a focus will be collaboration on exposomics research. This event will serve as UofT's launch for this initiative. The talks will introduce the exposome, identify related research needs and challenges, and provide ongoing and proposed initiatives in Canada and abroad.

#### **Seminar Speaker: Dr. Roel Vermeulen. Utrecht University**

Dr. Vermeulen's research focuses on environmental risk factors for cancer and neurological diseases with a strong emphasis on integrating epidemiology, high quality exposure assessment, and molecular biology into multidisciplinary investigations. One of his main research areas is the exploration of new methods for quantifying the external and internal exposome. He is a lead investigator in HELIX and EXPOSOMICS, two of Europe's large exposome related research studies.



#### **Panel**

- Dr. Howard Hu, Dean, DLSPH
- Dr. Jeff Brook, Environment and Climate Change Canada and DLSPH
- Dr. Greg Evans, Chemical Engineering and Applied Chemistry and DLSPH

**Moderator:** Paul Demers, Cancer Care Ontario and DLSPH

