

Dominic Frigon

Associate Professor

Ph.D.



Education

B.Sc. (McGill University, 1995)

M.Sc. (McGill University, 1999)

Ph.D. (University of Illinois at Urbana-Champaign, 2005)

Postdoctoral Research Fellow (University of British Columbia, 2005-2006)

- General information

Professor Frigon's research interests encompass several aspects of environmental biotechnology with a focus on microbial community engineering. His research aims at constructing mathematical models describing the dynamics and activity of microbial populations present in wastewater resource recovery systems. These models are then validated in laboratory-scale and full-scale experiments using molecular (DNA-based and RNA-based) microbiology and genomic techniques.

- Research interests

- Microbial community structures and dynamics in activated sludge wastewater treatment systems
- Minimization and sanitation of biosolids by physico-chemical treatments and anaerobic digestion
- Genome-scale metabolic modeling: *Rhodococcus jostii* RHA1 and others
- Antimicrobial resistance genes removal during wastewater resource recovery
- Biological processes for the Wastewater-to-Energy nexus