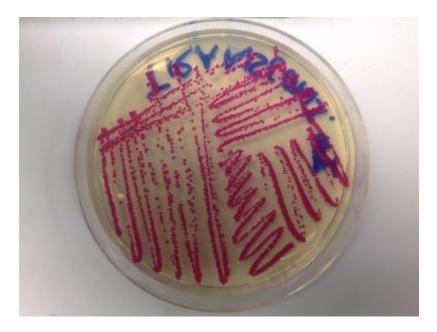


COLLOQUIUM SEMINAR TALK Wednesday, February 7, 2018 3:10PM KN L1220

Dr. Brian Ingalls

Department of Applied Mathematics University of Waterloo

Synthetic Biology Approaches to Suppression of Antibiotic Resistance: Toward Model-Based Design



Antibiotic-resistant pathogens present an increasing global health concern. Our group is investigating synthetic biology-based strategies for suppression of resistance in environmental bacterial populations. This approach involves the delivery of engineered genetic elements to target populations. We are developing models of the dynamics of this system, at both the genetic and population level, to be used for model-based design of potential implementations. Analysis of proof-of-principle scenarios and accompanying experimental results will be presented.