Modeling Food-borne Infection and Food Safety

April 1, 2019 Morning Session

Session Chair: Jianhong Wu

9:00 - 9:30		Breakfast/coffee
9:30 - 9:35	Jennifer Steeves	Opening remarks
9:35 - 10:30	James Koopman	Inference robustness assessment with identifiability analysis
10:30-10:45		Coffee break
10:45-11:15	Ben Smith	Modelling antimicrobial resistance in the agrifood chain
11:15-11:45	Irene Lambraki	A participatory approach to modelling resilience to antimicrobial resistance in one-health systems
11:45 - 12:15	Zack McCarthy	Enhancing food safety: modeling foodborne pathogen contamination dynamics in industrial poultry processing

12:15-1:30 Lunch Break

April 1, 2019 Afternoon Session

Session Chair: Aamir Fazil

1:30-2:15	Panel discussion -	Jeff Farber, Angelo Karr, James Koopman,
	Compliance and Regulatory	Jianhong Wu
	Measures	Chaired by Aamir Fazil
2:15-3:05	Marisa Eisenberg	Parameter identifiability and uncertainty in
		modeling infectious disease interventions
3:05-3:20		Coffee break
3:20-3:50	Ashrafur Rahman	An agent-based simulator for gastric flow and
		survival of food-borne pathogens







3:50-4:20	Daniel Munther	A complementary approach for produce safety: synthesizing experiments and modeling for fresh-cut lettuce washing
6:30pm	Banquet Dinner	Cynthia's Chinese Restaurant 7700 Bathurst St #51, Thornhill, ON L4J 7Y3

Day 2, April 2, 2019 Morning Session

Session Chair: Daniel Munther

9:00 - 9:30		Breakfast/coffee
9:30 - 10:20	Michael Li	Confronting models with data: the issue of nonidentifiability
10:30-10:45		Coffee break
10:45-11:15	Keith Warriner	Predicting the Contamination and Dissemination of Enteric Pathogens within the Fresh Produce Chain
11:15-11:45	Renata Ivanek	Modeling and control of foodborne pathogens' environmental spread
11:45-12:15	Rongsong Liu	Modeling the transmission of E. coli from contaminated soil to plant tissue

12:15-1:30 Lunch Break

Afternoon Session

Session Chair: Keith Warriner

1:30-2:30	Melanie Cousins	Modelling the transmission dynamics of
		Campylobacter in Ontario, Canada assuming
		house flies, Musca domestica, are a
		mechanical vector of disease transmission.







2:30-3:00	Nathaniel Osgood	Dynamic Health Policy Modeling in the Age of Big Data: Cross-leveraging Systems Science-
		Data- & Computational- Sciences to Address
		Complex Health Problems
3:00-3:15		Coffee break
3:15-3:45	Jeanine Boulter-Bitzer	TBD
3:45-4:15	Brainstorm discussion	Chair: Chris Caputo and Zack McCarthy

Day 3, April 3, 2019 Morning Session

Session Chair: Rongsong Liu

9:00 - 9:30	Breakfast/coffee	
9:30 - 10:30	Shigui Ruan	The effects of human movement on the
		transmission of vector-borne diseases
10:30 - 10:45		Coffee break
10:45 - 11:45	Julien Arino	Spatial aspects in vaccination
11:50 - 12:50	Nathaniel Osgood	Using streaming data, sequential Monte Carlo Methods and Particle MCMC Data and Dynamic Models for Outbreak Detection, Projection & Intervention Evaluation

END





