

# R.G.E. Murray Legacy in Microbiology Symposium

October 28, 2022

## Robert E.W Hancock OC, OBC, FRSC

### Keynote Speaker

Killiam Professor, Department of Microbiology & Immunology, Tier I Canada Research Chair in Health and Genomics, Director, Centre for Microbial Diseases and Immunity Research at University of British Columbia; *Pseudomonas aeruginosa* genomics, pathogenesis and antibiotic resistance; antimicrobial host defense peptides; innate immunity.

## Donald Avery

Professor Emeritus, Department of History at University of Western Ontario; archivist; intimate knowledge of the Murray family and their various contributions to science and society; details encapsulated in the book “The Meaning of Life: The Scientific and Social Experiences of Everitt and Robert Murray” published by the Champlain Society in 2008

## Yves Brun

Professor, Department of Microbiology, Infectious Diseases & Immunology, and Canada 150 Research Chair in Bacterial Cell Biology at Université de Montréal; mechanism of cellular organization, peptidoglycan synthesis for cell elongation, division, and morphogenesis, regulation of cell differentiation, surface adhesion and biofilm formation

## Omar El-Halfawy

Assistant Professor, Department of Chemistry & Biochemistry and CRC in Chemogenomics and Antimicrobial Research at University of Regina; uncovering novel antibiotic resistance and microbial virulence mechanisms, characterizing interbacterial interactions, discovery of novel antimicrobial strategies

## Cezar Khursigara

Professor, Department of Molecular & Cellular Biology at University of Guelph; high resolution imaging, cell division, bacterial biofilms

## Susan Koval

Professor Emerita, Department of Microbiology & Immunology at University of Western Ontario; bacterial ultrastructure, structure and function of bacterial surface components, biology of predatory prokaryotes, including mechanism of predation by *Bdellovibrio* species with focus on the role of type IV pili in the attack phase and on predator determinants of invasive vs non invasive life cycles.

## Kathy McCoy

Professor, Department of Physiology & Pharmacology and Scientific Director of International Microbiome Centre at University of Calgary; host-microbial interactions with a focus on early life to determine interplay between the innate and adaptive immune systems

## Jessica Sheldon

Assistant Professor, Department of Biochemistry, Microbiology & Immunology at University of Saskatchewan; molecular pathogenesis of multidrug resistant bacteria; *Acinetobacter baumannii*

## John Whitney

Associate Professor, Department of Biochemistry & Biomedical Sciences, and CRC in Molecular Microbiology at McMaster University; pathways involved in antagonistic microbe-microbe interactions; secreted proteins for bacterial competition