

Poster Competition – Abstract Titles

Wednesday, June 21st, 2017

Presenting students are to be by their posters from **12:45 – 2:45 PM** to respond to judges' questions.

Applied & Environmental Microbiology

AEM PC 01

Microbial communities in stormwater management ponds along a vegetation gradient. James BIE, University of Ontario Institute of Technology, A.E. KIRKWOOD¹, ¹University of Ontario Institute of Technology

AEM PC 02

Metagenomic and functional analysis of Lake Erie's winter microbial communities. Sabateeshan MATHAVARAJAH, Trent University, M.X XENOPOULOS¹, D.W WALSH², ¹Trent University, ²Concordia University

AEM PC 03

The role of seed endophytes in the plant microbiome. Patricia MILLER, University of Toronto at Scarborough, RR FULTHORPE¹, ¹University of Toronto at Scarborough

AEM PC 04

Development of multiplex protocols for the detection of pathogenic fungi affecting grapevine woody tissues. Koyomi OZAKI, Armand-Frappier Institute - INRS, C. PROVOST¹, C. GUERTIN², É. DÉZIEL², ¹Centre de recherche agroalimentaire de Mirabel, ²Armand-Frappier Institute - INRS

AEM PC 05

Comparing chiral catalysts: characterizing epoxide hydrolase regio- and enantioselectivity. Julia SZUSZ, Wilfrid Laurier University, GP HORSMAN¹, MD SUITS¹, ¹Wilfrid Laurier University

AEM PC 06

Exploring the functional potential of seasonally anoxic boreal shield lake Archaean ocean analogues. Jackson TSUJI, University of Waterloo, S.L. SCHIFF¹, L. WU¹, J.J. VENKITESWARAN², L. MOLOT³, R.J. ELGOOD¹, M.J. PATERSON⁴, J.D. NEUFELD¹, ¹University of Waterloo, ²Wilfrid Laurier University, ³York University, ⁴International Institute for Sustainable Development Experimental Lakes Area

Infection & Immunity

II PC 01

Inhibition and structure of peptidoglycan o-acetyltransferase B from *Neisseria gonorrhoeae*. Ashley BROTT, University of Guelph, A.J. CLARKE¹, ¹University of Guelph

II PC 02

The transcriptional regulator SsrB acts as a molecular switch controlling *Salmonella* virulence gene expression. N. Y Elizabeth CHAU, McMaster University, D. T. MULDER¹, D PÉREZ-MORALES², M. M. BANDA², H SALGADO², I MARTÍNEZ-FLORES², J. A. IBARRA², B ILYAS¹, V. H. BUSTAMANTE², B. K. COOMBES¹, ¹McMaster University, ²Universidad Nacional Autónoma de México

II PC 03

Antifungal activity of the human gut metabolome. Carlos GARCIA-RANGEL, Université de Laval, F TEBBJI¹, MC DAIGNEAULT², NN LIU⁰, JR KOHLER⁰, E ALLEN-VERCOE², A SELLAM¹, ¹Université de Laval, ²University of Guelph

II PC 04

Human Milk Microbiota in the Canadian Healthy Infant Longitudinal Development (CHILD). Cohort Shirin MOOSSAVI, University of Manitoba, E. KHAFIPOUR¹, S. SEPEHRI¹, A. B. BECKER¹, P. J. MANDHANE², P. SUBBARAO³, S. ?E. TURVEY⁴, D. L. LEFEBVRE⁵, M. R. SEARS⁵, CHILD STUDY INVESTIGATORS⁵, M. B. AZAD¹, ¹University of Manitoba, ²University of Alberta, ³University of Toronto, ⁴University of British Columbia, ⁵McMaster University

II PC 05

Biofilm stimulation in response to sub-inhibitory levels of thioestrepton reveals unexpected activity against *Pseudomonas aeruginosa*. Michael RANIERI, McMaster University, N. SHARMA¹, U.T. NGUYEN¹, L.L. BURROWS¹, ¹McMaster University

Molecular Genetics & Cellular Microbiology

MGCM PC 01

Investigating the regulatory roles of G-quadruplex structures in *Streptomyces*. Savannah COLAMECO, McMaster University, M. A. ELLIOT¹, ¹McMaster University

MGCM PC 02

Genome-wide identification and characterization of small RNAs in *Rhodobacter capsulatus* and identification of small RNAs affected by loss of the response regulator CtrA. Marc GRÜLL, Memorial University of Newfoundland, L. LOURDES PEÑA-CASTILLO¹, M.E. MARTIN E. MULLIGAN¹, A.S. ANDREW S. LANG¹, ¹Memorial University of Newfoundland

MGCM PC 03

PA3225 is a negative transcriptional regulator of the MexAB-OprM multidrug efflux pump in *Pseudomonas aeruginosa*. Clayton HALL, University of Ottawa, L ZHANG¹, T.-F. MAH¹, ¹University of Ottawa

MGCM PC 04

KpsC synthesizes a conserved β -linked poly-3-deoxy-D-manno-oct-2-ulosonic acid (Kdo) linker in Gram-negative pathogen capsular polysaccharides. Doyle LIAM, University of Guelph, O.G. OVCHINNIKOVA¹, B.S. HUANG², M.S. KIMBER¹, T.L. LOWARY², C. WHITFIELD¹, ¹University of Guelph, ²University of Alberta

MGCM PC 05

Getting *Salmonella typhi*'s Vi antigen capsule to the cell surface. Sean LISTON, University of Guelph, O. G. OVCHINNIKOVA¹, C. WHITFIELD¹, ¹University of Guelph

MGCM PC 06

PilWXY1 contribute to type IV pilus-independent virulence of *Pseudomonas aeruginosa*. Victoria MARKO, McMaster University, S.L.N. KILMURY¹, L.T. MACNEIL¹, L.L. BURROWS¹, ¹McMaster University

MGCM PC 07

Endoplasmic reticulum stress modulates herpes simplex virus type 1 gene expression and replication. Mackenzie THORNBURY, Dalhousie University, E.P. PRINGLE¹, C. MCCORMICK¹, ¹Dalhousie University

MGCM PC 08

A multifunctional protein acts as a polymerase, terminator and chain-length regulator in the biosynthesis of lipopolysaccharide O-antigen in *Klebsiella pneumoniae* O12. Danielle WILLIAMS, University of Guelph, DM WILLIAMS¹, OG OVCHINNIKOVA¹, A KOIZUMI¹, MS KIMBER¹, IL MAINPRIZE¹, TL LOWARY², CW WHITFIELD¹, ¹University of Guelph, ²University of Alberta