

Poster Competition Abstract Titles

Tuesday, June 19th, from 3:00 - 5:00 PM

Presenting students are to be by their posters from **3:00 – 5:00 PM** to respond to judges' questions.

Note: **AEM:** Applied Environmental Microbiology

II: Infection and Immunity | **MGCM:** Molecular Genetic Cellular Microbiology

AEM PC 01

Isolation and Characterization of Novel Microorganisms from the Canadian High Arctic using the Cryo-iPlate

Olivia BLENNER-HASSETT, McGill University, Macdonald Campus, E MARCOLEFAS¹, L.G. WHYTE¹, ¹McGill University, Macdonald Campus

AEM PC 02

Exploring the cellulolytic microbial diversity in landfills through metagenomic and cultivation approaches

Rebecca CO, University of Waterloo, LA HUG¹, A COLLINS-FAIRCLOUGH², ¹University of Waterloo, ²University of Technology, Jamaica

AEM PC 03

Characterization of the microbiome of the thick-billed murre and its association with prey specialization and mercury

Esteban GÓNGORA, McGill University, Macdonald Campus, L WHYTE¹, KH ELLIOTT¹, ¹McGill University, Macdonald Campus

AEM PC 04

Response of the soil bacterial community to crops and weediness levels from a long term field experiment

Leila KAMINO, University of Manitoba, E. KHAFIPOUR¹, R.H GULDEN¹, ¹University of Manitoba

AEM PC 05

Evaluation and characterization of Shiga-toxin- producing *Escherichia coli*, *Salmonella enterica*, and *Pseudomonas spp.* in multi-species biofilms

Someshwar LATCHMAN, University of British Columbia Okanagan, L.M. NELSON¹, B.J. SUSAN², ¹University of British Columbia Okanagan, ²Agriculture and Agri-Food Canada Pacific Agri-Food Research Centre

AEM PC 06

Microbiological investigation of lava tube ice for determining its habitability on Mars

Brady O'CONNOR, McGill University, Macdonald Campus, RJ LÉVEILLÉ¹, LG WHYTE¹, ¹McGill University

AEM PC 07

Effect of iron on the characterization and biofilm formation ability of *Salmonella spp.* on spinach

Deanna PASQUALE, University of British Columbia Okanagan, L.M. NELSON¹, S.J. BACH², ¹University of British Columbia Okanagan, ²Agriculture and Agri-Food Canada Pacific Agri-Food Research Centre

AEM PC 08

Antibiotic Resistant Bacterial Communities in a Municipal Wastewater Treatment Facility

Jennifer RUSSELL, University of Regina, C. K. YOST¹, ¹University of Regina

II PC 01

Characterization of a novel response regulator, NbmR, involved in antibiotic susceptibility and virulence in *Acinetobacter baumannii*

Malaka DE SILVA, University of Manitoba, A KUMAR¹, ¹University of Manitoba

II PC 02

Competitive fitness of essential gene knockdowns reveals a broad-spectrum antibacterial inhibitor of the cell division protein FtsZ

Andrew HOGAN, University of Manitoba, VC SCOFFONE², V MAKAROV³, H TESFU¹, MS STIETZ¹, AK BRASSINGA¹, M DOMARATZKI¹, A AZZALIN², LR CHIARELLI², G RICCARDI², S BURONI², ST CARDONA¹, ¹University of Manitoba, ²University of Pavia, ³Federal Research Center of the Russian Academy of Sciences

II PC 03

Bioluminescent *Salmonella* Strains to Study Host - Pathogen Interaction in Chicken

Dinesh WELLAWA, University of Saskatchewan, S LAM¹, K MACKENZIE¹, A WHITE¹, W KOESTER¹, ¹University of Saskatchewan

II PC 04

Proteomic Delineation of Mosquito and Mammalian Cell Dysregulation after Zika Virus Infection

Kathleen GLOVER, University of Manitoba, AAS SHER¹, YTL LAO¹, VC SPICER¹, KMC COOMBS¹, ¹University of Manitoba

II PC 05

Discovery of a short proline-rich lipopeptide that enhances the antibacterial activity of minocycline and rifampicin against multidrug- and extensively drug-resistant *Pseudomonas aeruginosa*

Ronald DOMALAON, University of Manitoba, Y. SANCHAK¹, G. G. ZHANEL¹, G. ARTHUR¹, F. SCHWEIZER¹, ¹University of Manitoba

II PC 06

Identifying novel anti-infective drugs against *Pseudomonas aeruginosa* using a combined computational and experimental screening approach

Wing Yin Venus LAU, Simon Fraser University, R. LO¹, T. PETERSEN¹, J. BHANGU¹, P.D. WILSON¹, L. XIE², F.S.L. BRINKMAN¹, ¹Simon Fraser University, ²Hunter College

II PC 07

Characterization of *Ebolavirus* cell tropism in isolated primary cells and in a 3D blood-testes barrier co-culture model

Brayden SCHINDELL, University of Manitoba, A. L. WEBB¹, G. SOULE², D. SAFRONETZ², J. KINDRACHUK¹, ¹University of Manitoba, ²Public Health Agency of Canada

II PC 08

Response of human induced pluripotent stem cells to Influenza infection

Ali ZAHEDI AMIRI, University of Manitoba, GLS SEQUIERA¹, SD DHNIGRA¹, KMC COOMBS¹, ¹University of Manitoba

MGCM PC 01

Ribitol catabolism by *Rhizobium leguminosarum* affects competition for nodulation

Deborah BUHLERS, University of Calgary, M.F. HYNES¹, ¹University of Calgary

MGCM PC 02

Functional analysis of a structurally complex ECF anti- σ factor from *Bacillus subtilis*

Maria DAVIS, University of New Brunswick, SR MACLELLAN¹, ¹University of New Brunswick

MGCM PC 03

A LacZ reporter for the study of the role of Rgg/SHP homologs in *Streptococcus pneumoniae* Quorum Sensing

Duoyi HU, University Of Illinois at Chicago, D.M. MORRISON¹, M.F. FEDERLE¹, ¹University Of Illinois At Chicago

MGCM PC 04

Investigating *Lactococcus lactis* response to phage infection at the proteome level

Marie-Laurence LEMAY, Université de Laval, A.O. OTTO², S.M. MAAB², K.P. PLATE², D.B. BECHER², S.M. MOINEAU¹, ¹Université de Laval, ²University of Greifswald

MGCM PC05

Serum reduced media impacts on cell viability and cellular protein expression in human lung epithelial cells

Md Mahamud ur RASHID, University of Manitoba, K.M. COOMBS¹, ¹University of Manitoba

MGCM PC 06

MLJD1: a novel protein from *Enterococcus faecalis* involved in cell division

Kusum SHARMA, University of Saskatchewan, Prof. DILLON¹, ¹University of Saskatchewan

MGCM PC 07

Conjugative Complexities: Defining the requirements for transfer of *Rhizobium leguminosarum* plasmid pRleVF39b

Nandun WATHUGALA, University of Calgary, H. DING², M.F. HYNES¹, ¹University of Calgary, ²University of British Columbia

MGCM PC 08

The effects of environmental and genetic factors on the germination of basidiospores in the *Cryptococcus gattii* species complex

Man YOU, McMaster University, JP XU¹, ¹McMaster University