



McGill Graduate Programs in Biotechnology

Research Project Seminar M.Sc. (Applied) in Biotechnology

November 26, 2019, Macdonald Campus of McGill University, Macdonald-Stewart Bldg, Faculty Lounge, Room MS2-022

November 26, 2019

- 9:30 Haritha Ajaybalakrishnan Menon, Institute of Parasitology, McGill University
Determination of protein-protein interactions of ABCC1 by proximity labelling *in vitro* (Dr. Elias Georges)
- 9:50 Yin Ting Chen, Jewish General Hospital, MUHC, McGill U.
Determining the immune landscape of diffuse large B-cell lymphoma by imaging mass cytometry (Dr. Nathalie Johnson)
- 10:10 Ivan Lam, Institute of Parasitology, McGill University
Looking at the RNA bound by the RNA binding protein (RBP7910) in *Trypanosoma brucei* (Dr. Reza Salavati)
- 10:30 Nikunz Koppula, Civil Engineering Department, McGill University
Bacterial community analysis of wastewater samples with distinct pre-treatments from different wastewater treatment plants in Canada (Dr. Dominic Frigon)
- 10:50 **BREAK**
- 11:05 Sharon Samuel, Deep Genomics, Toronto
Ceruloplasmin in cell line models of Wilson's disease (Dr. Matt Cahill)
- 11:25 Fatemeh Jamali, Oncology Department, MUHC, McGill U.
Effect of TrxR1-targeting compound Auranofin on glioblastoma stem cells (Dr. Siham Sabri)
- 11:45 Daniel Chettiar, Oncology Department, MUHC, McGill U.
Investigation of mechanism of action of Combi-Molecules and xenogenization properties on Programmed Cell Death Ligand (PD-L1), using Flow Cytometry (Dr. Bertrand Jean-Claude)
- 12:05 **LUNCH**
- 13:15 Sara Mofidi, Oncology Department, MUHC, McGill U.
Mechanism of action of a dual targeting anticancer drug (ZR2002) on genomic DNA modification in order to inhibition of DNA damage in cancer disease (Dr. Bertrand Jean-Claude)
- 13:35 Zainab Bello, Institute of Parasitology, McGill University
EcoToxXpress: A Toxicogenomics Knowledgebase to Query, Browse and Interrogate Chemical-Gene-Endpoint Networks (Dr. Jianguo Xia)
- 13:55 Rohini Baradan, Department of Chemistry & Biochemistry, Concordia University
Expression and purification of *Plasmodium falciparum* GAPDH and comparison of its heme binding properties with homologous GAPDH enzymes (Drs. Ann English & Joann Turnbull)
- 14:15 **BREAK**
- 14:30 Iván Teáhulos, National Research Council, Montreal
Development of an at-line quantification method for total particle determination using Nanoparticle Tracking Analysis (NTA) to support process development in lentiviral vector bioprocessing (Dr. Sven Ansorge)
- 14:50 Sujeetha Kaneshalingam, National Research Council, Montreal
Investigating the use of dichloroacetate (DCA) to reduce the Warburg effect and improve Chinese Hamster Ovary (CHO) cell culture processes (Mr. Robert Voyer)
- 15:10 Sangeet Kaur, National Research Council, Montreal
Enhancing antibody-antigen binding affinity predictions through MD-based scoring (Dr. Traian Sulea)
- 15:30 Surbhi Kedia, National Research Council, Montreal
Alpha-1 antitrypsin production in Chinese Hamster Ovary cells using different promoters (Dr. Eric Grazzini)



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- 9:30 Samarth Tandon, Institute of Parasitology, McGill University
Rescue of the ACR 16 knockout in *Caenorhabditis elegans* (Dr. Robin Beech)
- 9:50 Isabelle Bernaquez, Laboratoire de santé publique du Québec, St-Anne-de-Bellevue
Evaluation of whole-genome sequencing subtyping methods for *Shigella sonnei* and *Shigella flexneri* outbreaks in Quebec (Dr. Sadjia Bekal)
- 10:10 Lingjie Zhang, Artificial Cells & Organs Research Center, McGill University
Conjugating melanoma antibody to polyHb tyrosinase and its subcellular localization on B16F10 cells (Dr. Thomas M.S. Chang)
- 10:30 Navpreet Kaur, Institute of Parasitology, McGill University
Human Embryonic Kidney Cells as Antibody Display System (Dr. Armando Jardim)
- 10:50 **BREAK**
- 11:05 Cindy Chan, Bioengineering Department, McGill University
Development of an efficient process to produce influenza virus-like particles in insect cell culture platform (Dr. Amine Kamen)
- 11:25 Adam Guillemette, Abbvie Inc., Montreal
Treatment Sequencing in IBD (Dr. Kevin McHugh)
- 11:45 Lilian Angélica Alvarez Merino, Lady Davis Institute, Jewish General Hospital
Targeting Poly (ADP-ribose) Glycohydrolase (PARG) in Pancreatic Cancer (Dr. Michael Witcher)
- 12:05 **LUNCH**
- 13:15 Sara Sedaghat, Neurological Research Institute, MUHC, McGill U.
Effect of vitamin D on human myeloid cell function (Drs. Luke Healy & Jack Antel)
- 13:35 Abel Plata González, Neurological Research Institute, MUHC, McGill U.
Characterization of Human Midbrain Organoids from Parkin/PINK1 deficient Induced Pluripotent Stem Cells as a model of Parkinson's Disease (Dr. Thomas Durcan)
- 13:55 Arwa Merchant, Neurological Research Institute, MUHC, McGill U.
Functional Surveillance of Replacement Cell Therapy (Dr. Brian Chen)
- 14:15 **BREAK**
- 14:30 José Eduardo Almeyda Carbajal, Hyasynth Bio, Montreal
Semi-rational engineering of a key enzyme of the cannabinoid pathway for heterologous production in yeast (Dr. Zach Wiltshire)
- 14:50 Devanshi Bhargava, Hyasynth Bio, Montreal
Improving enzyme activity for heterologous biosynthesis of Cannabinoids in yeast cells (Dr. Curtis Walton)
- 15:10 Preksha Sharma, Hyasynth Bio, Montreal
Promoting the expression of a key enzyme in the Cannabinoid pathway for biosynthesis in yeast (Dr. Curtis Walton)