

Poster Presentation Titles

Wednesday, June 1st, 2016: Odd Number Posters Presentation

Thursday, June 2nd, 2016 Even Number Posters Presentation

12:30 PM – 2:00 PM

Location: Rozanski Concourse

PPA01

EFFECTS OF OXIDATIVE STRESS AND EXTRACELLULAR HEMOGLOBIN OR ITS DEGRADATION PRODUCTS ON MYELIN COMPONENTS: POTENTIAL ROLE IN MS PATHOGENESIS.

Vladimir V. Bamm, Danielle K. Lanthier, Shannon L.J. Sproul, and George Harauz. Molecular and Cellular Biology, University of Guelph.

PPA02

EPIGENETIC MECHANISMS MAY CONTRIBUTE TO POSTNATAL NEURODEVELOPMENTAL ABNORMALITIES IN UNTREATED AND ETHANOL-EXPOSED DNA REPAIR-DEFICIENT OXOGUANINE GLYCOSYLASE 1 (OGG1) KNOCKOUT PROGENY

Shama Bhatia¹, and Peter G. Wells². ¹Department of Pharmaceutical Sciences, Faculty of Pharmacy, University of Toronto; ²Department of Pharmacology; Toxicology, Faculty of Medicine, University of Toronto.

PPA03

NANOSILVER INDUCTION OF CELLULAR OXIDATIVE STRESS RESPONSE AND DETOXIFICATION PATHWAYS

Shana Cameron¹, William Willmore¹, Farah Hosseinian², and Owen Hovey¹. ¹Department of Chemistry, Carleton University; ²Department of Biology, Carleton University. Institute of Biochemistry, Carleton University.

PPA04

INNATE DEFICITS IN DENDRITIC OUTGROWTH IN PARKINSON'S PATIENT-DERIVED NEURONS ARE RESCUED BY NRF2-MEDIATE ACTIVATION OF THE ANTI-OXIDANT RESPONSE

Chris Czaniecki, University of Guelph

PPA05

LOCALIZED CONTROL OF OXIDIZED RNA

James Dhaliwal¹, Yu Zhan¹, Pauline Adjibade², James Uniacke³, and Rachid Mazroui². ¹Biology, Concordia University; ²Department of Molecular Biology, Medical Biochemistry, and Pathology, Laval University; ³University of Guelph.

PPA06

METABOLIC CHANGES DURING EXTRAEMBRYONIC ENDODERM DIFFERENTIATION

Mohamed Gatie, Department of Biology, Western University

PPA07

DETECTION OF OXIDATIVE STRESS SIGNATURES IN LIVING CELLS OF THE GREEN ALGA CHLAMYDOMONAS REINHARDTII

Kira Goff¹, Tom Ellis², and Kenneth Wilson². ¹Department of Biology, University of Saskatchewan; ²Department of Chemistry, University of Saskatchewan.

PPA08**BEHAVIOURAL NEURODEGENERATIVE OUTCOMES AND GENDER-DEPENDENT BRAIN DNA DAMAGE ARE EXHIBITED IN YOUNG AND AGING MUTANT MICE DEFICIENT IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE**

Anmol Gupta¹, Shama Bhatia¹, Isabel Mackay-Clackett², and Peter G. Wells², ¹Department of Pharmaceutical Sciences, Faculty of Pharmacy, University of Toronto; ²Department of Pharmacology and Toxicology, Faculty of Medicine, University of Toronto.

PPA09**MITOCHONDRIAL BIOENERGETIC DYSFUNCTIONS IN HUMAN TYPE 1 DIABETIC SKELETAL MUSCLE?**

Meghan C Hughes¹, Sofia V Ramos¹, Donna D'Souza², Thomas J Hawke², and Christopher GR Perry¹. ¹Muscle Health Research Center, School of Kinesiology and Health Science, York University; ²Department of Pathology and Molecular Medicine, McMaster University.

PPA10**CARDIOLIPIN FACILITATES REFOLDING OF A-SYNUCLEIN FIBRILS IN RESPONSE TO ACCUMULATION OF MITOCHONDRIAL STRESS**

Kayla M. Humphries, Vladimir V. Bamm, Carla L. Coackley, George Harauz, and Scott D. Ryan. Department of Molecular and Cellular Biology, The University of Guelph.

PPA11**OXIDIZED VITAMIN C CATALYZED S-HOMOCYSTEINYLACTION**

GraceAhuie Kouakou¹, Hicham Berrougui², Abdelouahed Khalil², and Klaus Klarskov.

¹Université de Sherbrooke; ²Department for Medicine and Geriatrics;

PPA12**THE ADAPTOR PROTEIN P66SHC REGULATES METABOLISM, ROS PRODUCTION AND AMYLOID BETA SENSITIVITY IN CNS CELLS**

Asad Lone, Western University

PPA13**LOSS OF 5-HYDROXYMETHYLCYTOSINE IN BRAIN TUMORS RELATED TO VARIATIONS IN EPIGENETIC MARKS.**

Carolyn Mary Lowry, J. Richard Wagner, Laurent-Olivier Roy, David Fortin, and Marie-Belle Poirier. Université de Sherbrooke.

PPA14**4-PBA TREATED DRINKING WATER SLOWS ATHEROSCLEROTIC LESION GROWTH IN APOE^{-/-} MICE**

Edward G. Lynn^{1,2}, Šárka Lhoták, Richard C. Austin. ¹Department of Medicine, Division of Nephrology, McMaster University; ²St. Joseph's Healthcare Hamilton.

PPA15**ISGYLACTION IS A HYPOXIA-INDUCED PATHWAY THAT ATTENUATES ACTIVITY OF THE HIF-2A TRANSCRIPTION FACTOR**

Gaelan Melanson, and Jim Uniacke. University of Guelph.

PPA16

OPTIMIZATION AND VALIDATION OF IRDYE800CW FOR THE DIRECT DETECTION OF PROTEIN OXIDATION IN MUSCLE LYSATE USING IN-GEL AND MICROPLATE ASSAYS

Ali Nejatbakhsh¹, Christopher G. R. Perry¹; Patrick C. Turnbull, and Aimee Landar². ¹York University; ²Department of Pathology, University of Alabama at Birmingham, Alabama, USA.

PPA17

EFFECT OF SECOISOLARICIREBINOL DIGLUCOSIDE ON ANTIOXIDANT STATUS AND REDOX SIGNALING IN CARDIAC IRON OVERLOAD

Ashley Nemec-Bakk¹, Stefanie Kirk¹, Stephanie Puukila², Simon Lees³, and Neelam Khaper³.
¹Department of Biology, Lakehead University; Biotechnology, Lakehead University²; Biology/NOSM³.

PPA18

COMPARISON OF DIFFERENT POLYPHENOLS ON INHIBITION OF BENZO[A]PYRENE CARCINOGENESIS: INFLUENCES ON OXIDATIVE STRESS AND MITOCHONDRIAL BIOGENESIS

Kosar Omidian, Hossein Rafiei and Brian Bandy. University of Saskatchewan.

PPA19

NEURONAL AGING AND OXIDATION: DOES OXIDATIVE STRESS INDUCE MICRO-ARCHITECTURAL CHANGES IN LIVING MEMBRANES?

Alexander C. Perry, Petra M. Hermann and Willem C. Wildering. University of Calgary.

PPA20

CAN DIETARY POLYPHENOLS INHIBIT NON-ALCOHOLIC FATTY LIVER DISEASE? PROTECTIVE ROLES AGAINST FIRST AND SECOND HITS INVOLVED IN THE PATHOGENESIS OF THE DISEASE

Hossein Rafiei, Brian Bandy, and Kosar Omidian. University of Saskatchewan, College of Pharmacy and Nutrition.

PPA21

DETERMINING THE EFFECTS OF MICROTUBULE STABILIZING AND DESTABILIZING CHEMOTHERAPY DRUGS ON MITOCHONDRIAL BIOENERGETICS IN SKELETAL MUSCLE

Sofhia Ramos, Meghan Hughes, and Dr. Christopher Perry. York University.

PPA22

THE MANIPULATION OF CYTOSOLIC NUCLEOSIDE DIPHOSPHATE KINASE IN TRANSGENIC POTATO ROOTS AFFECTS RESPIRATORY METABOLISM LEADING TO ALTERATION IN REACTIVE OXYGEN SPECIES LEVELS AND REDOX REGULATION OF STARCH METABOLISM

Jean Rivoal, Sonia Dorion, and Audrey Clendenning. Université de Montréal.

PPA23

HUMAN CELLS CULTURED UNDER PHYSIOLOGICAL OXYGEN HAVE LESS ROS-INDUCED DNA DAMAGE AND UTILIZE TWO CAP-BINDING PROTEINS TO RECRUIT DISTINCT MRNAS FOR TRANSLATION

Sara Timpano, and James Uniacke. Department of Molecular and Cellular Biology, University of Guelph.

