

**TABLE OF CONTENTS / TABLES DES
MATIÈRES**

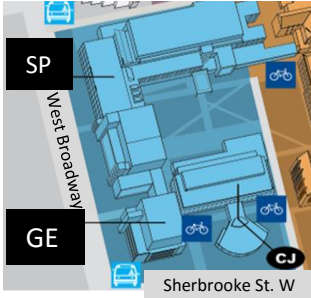
Campus Maps / Plans du Campus2-3
Welcome Address / Lettre de Bienvenue..... 4
In Memory Of / A la mémoire de 5
Keynote Speakers / Intervenants Principaux6-8
Schedule / Horaire 9
Oral Presentations / Présentations Orales10-14
Poster / Affiches15-21
Sponsors / Commanditaires22-28
Judges / Juges29-30
Organizing committee / Comité Organisateur 31
Acknowledgements / Remerciements 32

**PROGRAM
PROGRAMME OFFICIEL**

CAMPUS MAP

PLAN DU CAMPUS

BUILDINGS

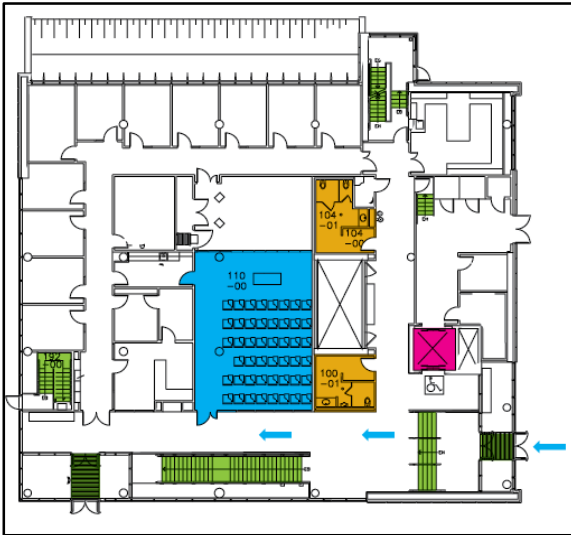


ELEVATORS

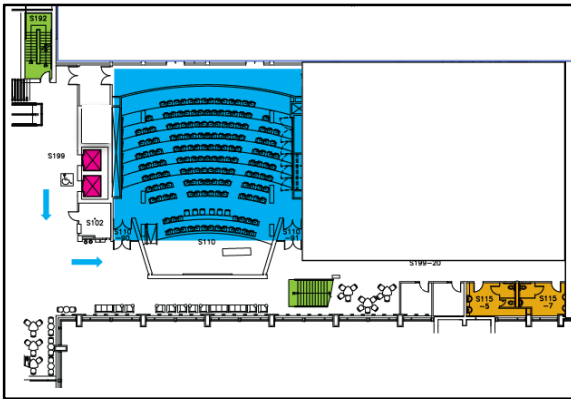
STAIRS

WASHROOMS

KEYNOTE SPEAKER 1 GE 110.00

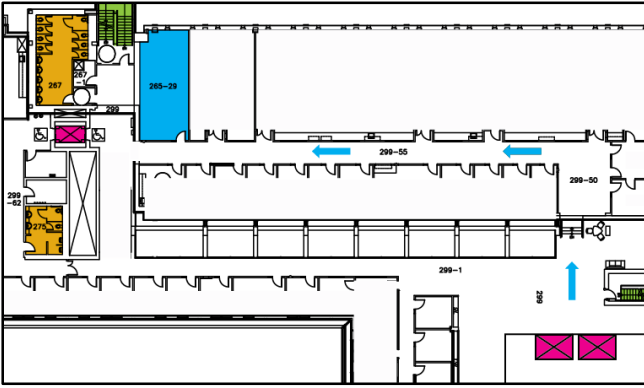


KEYNOTE SPEAKER 2 SP S-110.00

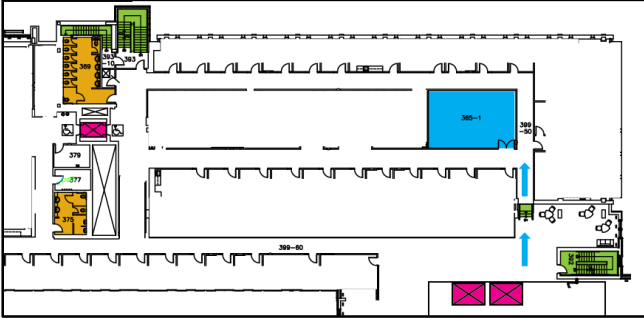


CAMPUS MAP
PLAN DU CAMPUS

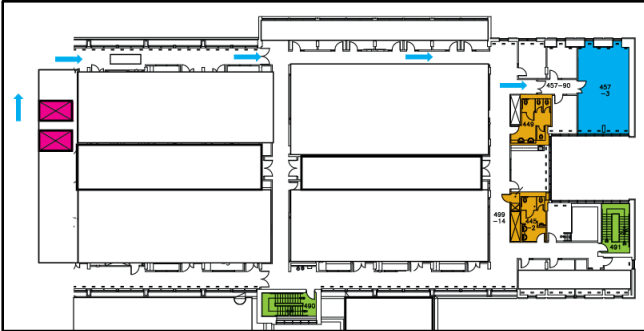
SP 265.29



SP 365.01



SP 475.03



Dear friends and colleagues,

It is with great pleasure that we welcome you all to the 18th annual Chemistry and Biochemistry Graduate Research Conference. This year, we are especially proud to host such a diverse conference. With a wide range of topics, the keynote and graduate presentations are sure to be stimulating and made even better by the participation of various participants and judges. The organizing committee has provided the best environment for graduate students, professors and industry representatives to share and discuss their research and build new connections. We hope this conference will be productive and inspiring to all!

Once again, we would like to extend our gratitude to you all for contributing to the CBGRC this year.

The CBGRC Organizing Committee

Chers amis et collègues,

C'est avec un immense plaisir que nous vous accueillons à la 18ième Conférence sur la recherche aux cycles supérieurs en Chimie et Biochimie. Cette année, nous sommes particulièrement fiers de vous accueillir à une conférence d'une telle diversité. Les conférenciers invités ainsi que les étudiants aux cycles supérieurs vont vous stimuler en présentant un éventail de sujets abordés; améliorés par l'appui des participants et des juges. Le comité organisateur a fait de son mieux pour fournir aux étudiants, professeurs et représentants de l'industrie le meilleur environnement possible pour partager leur recherche et bâtir de nouvelles collaborations. Nous espérons que cette conférence sera productive et inspirante pour tous!! De nouveau, nous tenons à exprimer notre gratitude envers vous tous pour votre participation à la CRCSCB cette année.

Le Comité Organisateur de la CRCSCB

**MARCUS LAWRENCE,
Ph.D. (1956-2015)**

*Professor
Chemistry & Biochemistry,
Concordia University*

In memoriam,



IN MEMORY OF
A LA MEMOIRE DE

I had the privilege of taking three classes with Dr. Lawrence: Thermodynamics (CHEM 234), Chemical Kinetics (CHEM 235), and Quantum Mechanics (CHEM 333). His approach towards teaching was fun, interactive, and inspiring, and his knowledge regarding the subject matter was extensive. Professor, you shall be sadly missed by a whole generation of students, and I for one am grateful for having learnt from such a brilliant and caring man. Unlike many pedagogues in the university lecture circuit, Dr. L always took the time to get to know each and every one of his students by name, was constantly encouraging, and saw potential in all. Some might say his exams were easier than those of the other teachers, however I highly disagree. The fact that his class's grades were high was a direct testament to his passion towards education, and the time and effort he put into honing his craft.

Lastly, a quotation that I heard some time ago...resonates with the way I feel. It states, *“Who in their life hasn't planted a seed just hoping somehow, something would grow? You may not know or remember all the things that you have done, but everywhere around you seeds are growing, and people are blooming. I know this, because I'm one of them.”*

- James L. Verzelli

KARINE AUCLAIR, Ph.D.

*Associate Professor
Chemistry Department,
McGill University*



**CONQUERING
ANTIBIOTIC
RESISTANCE WITH A
3-EDGE SWORD: PANTOTHENATE
DERIVATIVES**

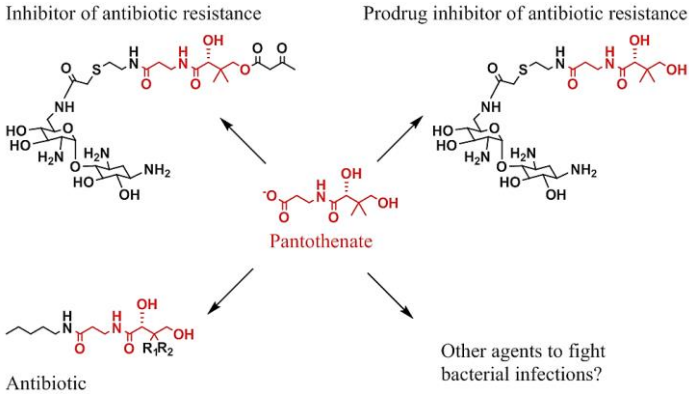
Pantothenate, also known as vitamin B₅, is an essential nutrient. It is a precursor in the biosynthesis of coenzyme A (CoA), a cofactor required by >9% of all known enzymes. One such enzyme is aminoglycoside 6'-N-acetyltransferase, or AAC(6'). Expression of AAC(6') by bacteria renders them resistant to aminoglycoside antibiotics. According to the WHO, antibiotic resistance has become such a pressing issue that humanity may regress into a post-antibiotic era where “things as common as strep throat or a child’s scratched knee could once again kill”. Our research group uses a variety of strategies to overcome the problem of antibiotic resistance. Three of them (the 3 edges) take advantage of the pantothenate structural motif.

The first “edge” of our research has involved the synthesis of pantothenate derivatives as AAC(6') inhibitors able to resensitize resistant bacteria to aminoglycoside antibiotics. In order to improve the potency of our AAC(6') inhibitors, the second “edge” has relied on the CoA biosynthetic enzymes to build, in bacteria, highly potent resistance inhibitors from pantothenate derivatives.

Finally, our third edge against bacteria focuses on pantothenamide derivatives, some of which show interesting

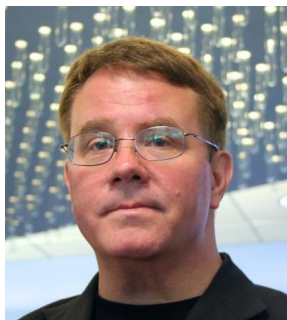
antibacterial or antiparasitodal activity of their own. A fourth “edge” is being developed which might be discussed briefly. Overall this presentation will include some elements of biophysical chemistry but mostly medicinal chemistry with a strong emphasis on biological mechanisms.

KEYNOTE SPEAKER
INTERVENANTS PRINCIPAUX



JOHN WARNER, Ph.D.

*President, Chief
Technology Officer,
Warner Babcock Institute
for Green Chemistry, LLC*



**GREEN CHEMISTRY:
THE MISSING
ELEMENTS**

Imagine a world where all segments of society demanded environmentally benign products! Imagine if all consumers, all retailers and all manufacturers insisted on buying and selling only non-toxic materials! The unfortunate reality is that, even if this situation were to occur, our knowledge of materials science and chemistry would allow us to provide only a small fraction of the products and materials that our economy is based upon. The way we learn and teach chemistry and materials science is for the most part void of any information regarding mechanisms of toxicity and environmental harm. Green Chemistry is a philosophy that seeks to reduce or eliminate the use of hazardous materials at the design stage of a materials process. It has been demonstrated that materials and products CAN be designed with negligible impact on human health and the environment while still being economically competitive and successful in the marketplace. This presentation will describe the history and background of Green Chemistry and discuss the opportunities for the next generation of materials designers to create a safer and more sustainable future.

Time	Activity	Location
08:00-09:00	Registration (All Day)	SP Atrium
09:00-10:20	Student Presentations A	Biochemistry (SP-365.01) Analytical Chemistry (SP-457.03)
10:20-10:50	Sponsors and Coffee Break	SP-S Atrium and SP Atrium
10:50-12:00	Keynote Speaker I	Dr. Karine Auclair (GE-110.00)
12:00-13:00	Lunch	SP-S Atrium
13:00-14:00	Student Presentations B	Computational and Physical Chemistry (SP-265.29) Molecular Biology (SP-365.01) Environmental Chemistry (SP-457.03)
14:00-14:30	Sponsors and Coffee Break	SP-S Atrium and SP Atrium
14:30-15:30	Keynote Speaker II	Dr. John Warner (SP-S110.00)
15:45-17:30	Student Presentations C	Inorganic Chemistry and Nanochemistry (SP 265.29) Biochemistry (SP-365.01) Organic Chemistry (SP-457.03)
17:30-19:30	Poster Session	SP-S Atrium
17:30-23:30	Wine and Cheese	SP-S Atrium
All Day	Sponsors	Sponsors and Coffee will be available all day

BIOCHEMISTRY (09:00- 10:20)

Samaneh Dastpeyman (Concordia University): Monitoring Heme Uptake and Release of Yeast Mitochondrial Peroxidase using Lifetime Measurements

Walton Curtis (University of Ottawa): Engineering of D-Amino Acid Aminotransferase Mutants with Increased Activity Towards Aromatic D-Amino Acids

Matthew Leibovitch (Concordia University): Implicating Changes in Localization, Activity, Structure and Stability in the Function of Arabidopsis tRNA Nucleotidyltransferase

MOLECULAR BIOLOGY (13:00-14:00)

Bryan Luu (Carleton University): Identification and Characterization of Species-Specific Novel microRNAs in the Hibernating 13-Lined Ground Squirrel, *Ictidomys tridecemlineatus*

Paknoosh Pakarian (Concordia University): Subunit Orientation in the Intracellular *Escherichia coli* Enterobactin Biosynthetic EntA-EntE Complex

Samuel Burke Nanni (Université du Québec à Montréal): Actin-Cytoskeleton Disruption Causes Rapid LRP-1 Internalization and Degradation in a Grade IV Glioma Cell Model

BIOCHEMISTRY (15:45-17:30)

Vanja Polic (McGill University): Investigation of CYP3A4 Activity via Small Molecule Bioconjugation

Lauralicia Sacre (Concordia University): Probing DNA Repair of O4-Alkyl-Pyrimidines by O6-Alkylguanine DNA Alkyltransferase

Marwa Laadhari (Université du Québec à Montréal):
Study of the Interaction of Antimicrobial Peptides with Intact
Bacteria by Nuclear Magnetic Resonance

Justin Raiche-Moyen (Concordia University):
Characterization of Two *Aspergillus niger* Aromatic Ring
Hydroxylases with Different Substrate Specificity and
Hydroxylation Efficiency

Janice Reimer (McGill University): Crystal structures of the
Initiation Module of a Formylating Nonribosomal Peptide
Synthetase Show its Elegant Synthetic Cycle

STUDENT ORAL PRESENTATIONS

ROOM: SP 365.01

COMPUTATIONAL AND PHYSICAL CHEMISTRY (13:00-14:00)

Vinod Parmar (Concordia University): Structural Dynamics of Monomer, Dimer and Tetramer of Glyceraldehyde-3-phosphate Dehydrogenase (GAPDH) Evaluated Using Cross-Correlation Analysis and Principal Component Analysis (PCA)

Abdullah Khan (Concordia University): Impact of Nanoparticles on Lung Surfactant Functioning

Lorena Torres (Université de Montréal): The Effect of pH on Dodecyltrimethylammonium Chloride Adsorption at the Silica/Water Interface Studied by Sum Frequency Generation

Mihn Nguyen (Université de Montréal): Chemical Functionalization of Monolayer and Bilayer Graphene

INORGANIC CHEMISTRY AND NANO CHEMISTRY (15:45-17:30)

Valérie Hardouin Duparc (Université de Montréal): Chan-Lam Coupling using a Copper (II) Complex with a Sulfonated Diketimine Ligand

Katie Harriman (University of Ottawa): Utilizing Organo-4f Chemistry in the Design of New Single-Molecule Magnets

Serene Bayram (McGill University): Silver Nanorings in Solution Using TMV

Nooshin Sheibany (Concordia University): Redox Chemistry of Nitrogen-Containing Functional Groups Near a Copper Centre

ANALYTICAL CHEMISTRY (09:00- 10:20)

Makan Golizeh (Université du Québec à Montréal): Identification of 4-Hydroxynonenal Protein Targets in Rat, Mouse and Human Liver Microsomes by 2D-LC-MS/MS

Biao Ji (Université du Québec à Montréal): Differentiating Yeast Strains by Untargeted Metabolomics Using UHPLC-HRMS/MS

Maxime Sansoucy (Université du Québec à Montréal): Method Development for Characterizing Mussel Proteins Implicated in Byssal Thread Production Using a 3D-LC-MS/MS Approach

Irina Slobodchikova, (Concordia University): LC-MS Method for Simultaneous Detection and Quantification of Common Toxicologically Important Mycotoxins in Blood Samples for Exposure Studies of Canadian Population

Andrew Barber (Concordia University): Measuring the $\delta^{13}\text{C}$ Signature of Dissolved Organic Carbon: An Inter-Laboratory Comparison Study

ENVIRONMENTAL CHEMISTRY (13:00-14:00)

Kathryn Balind (Concordia University): An Unexplored Piece of the Carbon Cycle: The Affinity and Selectivity of Sedimentary Mackinawite towards Dissolved Organic Matter

Anic Imfeld (Concordia University): Environmental Forensics: Using Compound-Specific Stable Carbon Isotope Analysis to track Petroleum Contamination

Pretty Ma (Université de Montréal): Modeling the Formation and Aging of Secondary Organic Aerosols in Polluted Urban Regions

Justine-Anne Rowell (Université de Montréal): Role of Natural Biopolymers on Rare Earth Elements Speciation and Bioavailability with *Chlamydomonas reinhardtii*

Ashish Sarker (Queen's University): Binding Characterization of Organic Microcontaminants to CTABr Micelles to Predict Micellar-Enhanced UltraFiltration Treatment of Wastewater

ORGANIC CHEMISTRY (15:45-17:30)

Soyoung An (Concordia University): Dual Sulfide-Disulfide Crosslinked Polymeric Networks Exhibiting Rapid Self-Healing Ability

Kim Yang-Ping Apperley (University of Ottawa): Development of Reversible Tissue Transglutaminase Inhibitors with Increased Resistance to Glutathione Addition

Élyse Champagne (Université de Montréal): The Use of Enzymes in the Synthesis of Novel Biocompatible Polymers

Sylvain Taillemaud (Université de Montréal): Mechanism-driven Elaboration of an Enantioselective Bromocyclopropanation Reaction of Allylic Alcohols

Solène Fortun (Université de Montréal): Highly Recyclable Imidazolium-Functionalized β -Cyclodextrin Catalyst for Cross-Coupling Reactions in Water

Benjamin Macphail (McMaster University): Synthesis and Characterization of Spread and Set Silicone Boronic Acid Elastomers

Poster Session (17:30- 19:00)

BIOCHEMISTRY / BIOCHIMIE

B01 - Li Li (University of Regina): Targeted Knockout of PpORS Encoding an Ancient Type III Polyketide Synthase in the Moss *Physcomitrella Patens*

B02 - Christopher Liezner (Concordia University): The Influence of Nucleoside Modifications on the Parallel Stranded Adenosine Duplex

B03 - Sanoji Wijenayake (Carleton University): Metabolic Arrest During Hibernation! Cardiac Regulation of Pyruvate Dehydrogenase (PDH) Complex in Hibernating Ground Squirrels (*Ictidomys tridecemlineatus*)

B04 - Samantha Logan (Carleton University): Turn Down gene Expression for WAT: Anti-Apoptotic Signaling Protects White Adipose Tissue in Hibernating 13-Lined Ground Squirrels

B05 - Trong Nguyen (Carleton University): Differential Scanning Fluorimetry to Detect Changes in Protein Stability under Solvent Alterations

B06 - Caroline Donovan (McGill University): Role of CUX1 in Conferring Radioresistance to Cancer Cells

B07- Michael Smolinski (Carleton University): Purification and Characterization of Pyruvate Kinase in the Freeze Tolerant Wood Frog, *Rana Sylvatica*

B08 - Alan de Aguiar Lopes (Concordia University): Heme Transfer Between Mitochondrial Proteins

B09 - Shafqat Rasool (McGill University): Structural and Functional Studies of PINK1: The First Ubiquitin Kinase

Poster Session (17:30- 19:00)

B10 - Nathan Niskala (Concordia University): Investigating why the W191F Mutant of Cytochrome c peroxidase is a More Efficient Peroxide Sensor than the Wildtype Protein

B11- Seby Chen (McGill University): Structural Study of Poly(A)-Binding Protein

B12 - Shane Caldwell (McGill University): Antibiotic Binding Drives Catalytic Activation of Aminoglycoside Kinase APH(2^{''})-Ia

B13 - Lorea Alejaldre (Université de Montréal): Studying Innovability of a Primitive Enzyme Conferring Antibiotic Resistance

B14 - Christina Sandall (University of Calgary): The Production of an NLRP3-knockout THP1 Cell Line by Lentiviral Delivery of CRISPR/Cas Technology

B15 - Patrick Semana (Concordia University): Homogentisate and Gentisate 1,2-dioxygenases: Two Non-Heme Iron Containing Ring-Cleavage Dioxygenases with a Cupin Fold

B16 - Carolin Brand (Université de Sherbrooke): Characterization of the Interaction Between West Nile Virus NS3 and NS5 Proteins

B17 - Simon Boudreault (Université de Sherbrooke): Alternative Splicing Modifications Triggered by Reovirus Infection

B18 - Armelle Tchoumi (Université du Québec à Montréal): Mechanism of Action and Beneficial Effects of a Plant Diamine Oxydase

Poster Session (17:30- 19:00)

**MOLECULAR BIOLOGY / BIOLOGIE
MOLÉCULAIRE**

M01 - Kama Szereszewski (Carleton University):
Expression of PPARs in the Hibernating Ground Squirrel

M02 - Ryan Girgrah (Carleton University): TGF- β
Superfamily Adaptive Regulation in the Dehydration-Tolerant
Anuran, *Xenopus laevis*

M03 - Ashley Gerber (Carleton University) Torpor
Response Initiates Brain MicroRNA Expression in Thirteen-
Lined Ground Squirrels, *Ictidomys tridecemlineatus*

M04 - Yichi (Tony) Zhang (Carleton University):
Transcriptional Activation of Muscle Atrophy Promotes
Cardiac Muscle Remodeling During Mammalian Hibernation

M05 - Christie Childers (Carleton University): Post-
Translational Regulation of Creatine Kinase Function in the
Aestivating Frog *Xenopus laevis*

M06 - Marie-Claude Carrier (Université de Sherbrooke):
A functional tRNA-Derived RNA Fragment Fine-Tunes Gene
Expression in *Escherichia coli*

M07 - Hanane Hadj-Moussa (Carleton University): Torpor
Triggers Differential microRNA Expression in Hibernating
South American Marsupials, *Dromiciops gliroides*

M08 - Larabi Nadia (Université de Sherbrooke): The Small
RNA RyhB Act on the Cell Morphology Through zapB
Regulation

Poster Session (17:30- 19:00)

M09 - Alexander Watts (Carleton University): Regulation of Lysine Methyltransferases and Lysine Methylation during Torpor cycle in 13-Lined Ground Squirrel, *Ictidomys tridecemlineatus*

M10 - Lorelei Durand (Université de Montréal): Cellular Biology of the Proprotein Convertase pc7: Enzymatic Activity and Trafficking through the Conventional Secretory Pathway

COMPUTATIONAL CHEMISTRY / CHEMIE THÉORIQUE

C01 - Sharma Bharat Kumar (Concordia University): Development of Semiempirical Models for Zinc-Water and Zinc-Cysteine Binding in Metalloproteins

C02 - Odile Moutounet (Sherbrooke University): DFT Study of the Reactivity of *bis*(amino)cyclopropenylidenes as Organocatalysts in the Intermolecular Stetter Reaction

C03 - Tugba Ozturk (Concordia University): Molecular Modeling of the Orai Calcium Channel Structure

C04 - Abdel Hidalgo (University of Victoria): Novel Approach for Predicting Partition Coefficients of Linear Perfluorinated Compounds

C05 - Philippe Archambault (Concordia University): Computational Investigation of GNRA Tetraloop Stabilizing Interactions

NANOCHEMISTRY / NANOCHEMIE

N01 - Renaud Lussier (Université Laval): Elastomer Thin Films with Magnetic Nanoparticles for the Development of New Deformable Mirrors

Poster Session (17:30- 19:00)

N02 - Soyoung An (Concordia University): Reduction-Responsive Sheddable Multi-wall Carbon Nanotubes Dispersed in Aqueous Solution

N03 - Hong Sung Hwa (Concordia University): Rosin-based Amphiphilic Block Copolymer for Cancer Targeted Drug Delivery

N04 - Mohsen Ramezanzpour (University of Calgary): The Investigation of Cationic-Anionic Lipid Interactions in Endosomal Membrane Disruption and Drug Release: A Molecular Dynamics Simulation and NMR Study

INORGANIC CHEMISTRY / CHIMIE

INORGANIQUE

I01 - Elizabeth Kleisath (University of Ottawa): Alkyl-Functionalization of 3,5-*bis*-(2-pyridyl)-1,2,4,6-thiaziazine Complexes

I02 - Andrew Hollingshead (University of Ottawa): Covalent Organic Frameworks: Using 2D Rigid Cores for Enhanced Electron/Charge Transport

I03 - François Magnan (University of Ottawa): Thieno[3,2-*b*]thiophene-Based Building Blocks for the Construction of 2D Thienoacenes

I04 - Nathan Yutronkie (University of Ottawa): Heteroaromatic Substituted 1,2,4,6-Thiaziazinyl Radicals: Synthetic Methodology and Complexation as Ligands in Lanthanide Complexes

I05 - Mariela Gomez Perez (Université du Québec à Montréal): Copper Complexes with Antioxidants Properties

POSTER SESSION
SP-S ATRIUM

Poster Session (17:30- 19:00)

I06 - Masayuki Miyaji (Kyushu University): The Catalytical Photoinduced H₂ Production Activity of RuPt-Based Molecular Device Tethered to Viologen Moiety

**PHYSICAL CHEMISTRY / CHIMIE
PHYSIQUE**

P01 - Ellen Wrobel (Concordia University): Miscibility Studies of a Calixarene Derivative with Phospholipids in Langmuir Monolayers

P02 - Hala Youssef (Concordia University): Effect of Surface Charge on the Behaviour of Antimicrobial Peptide GL13K with Model Membranes

**ANALYTICAL CHEMISTRY / CHIMIE
ANALYTIQUE**

A01 - Ghazaleh Moghaddam (Université du Québec à Montréal): Global Acetaminophen Dose-Dependent Metabolite Profiling by HPLC-HRMS/MS

A02 - Sibylle Pfammatter (Université de Montréal): Performance of High Field Asymmetric Waveform Ion Mobility Spectrometry (FAIMS) in Proteomic Discovery

A03 - Cian Monnin (Concordia University): Comparison of Methanol and Isopropanol Solvent Precipitation for LC-MS Lipidomics of Human Plasma

A04 - Hanieh Peyman (Concordia University): Evaluation of Dispersive Solid-Phase Microextraction using Hydrogel Microparticles for Global Metabolomics by Liquid Chromatography – Mass Spectrometry

Poster Session (17:30- 19:00)

A05 - Mariana de Sá Tavares (Concordia University):
Analysis of Intracellular Organic Thiols after Derivatization
with Maleimides

ORGANIC CHEMISTRY / CHIMIE ORGANIQUE

O01 - Wanying Zhang (University of Ottawa): Ruthenium
Catalyzed Deuteration of Aldehydes

O02 - Hua XiYe (University of Ottawa): Inherent vs.
Apparent Chemoselectivity: Expanding the Scope of Grignard
Reagents in Cross-Coupling

O03 - Alexander Caschera (Ryerson University): UV
Initiated Benzophenone QUAT Coatings

O04 - Cindy Buonomano (Concordia University):
Heteroaromatic Synthesis by Decarboxylative and
Desulfinate Palladium-Catalyzed Cross-Coupling Reactions
using Continuous-Flow Chemistry

O05 - Jimming Guan (McGill University): Design and
Synthesis of Pantothenate Analogues as Potential PaPanK
Inhibitors

PLATINUM SPONSORS
COMMANDITAIRES



UNIVERSITÉ
Concordia
UNIVERSITY

Office of the President and Provost



UNIVERSITÉ
Concordia
UNIVERSITY

GOLD SPONSORS
COMMANDITAIRES

**FACULTY OF
ARTS AND SCIENCE**



**Concordia Council
on Student Life**

GOLD SPONSORS
COMMANDITAIRES



Agilent Technologies



**CHEMICAL
COMPUTING
GROUP**



Fisher Scientific

SILVER SPONSORS
COMMANDITAIRES



SILVER SPONSORS
COMMANDITAIRES



DELTA PHOTONICS
LIGHTYEARS AHEAD

eppendorf



Concordia University

Department of Chemistry and Biochemistry

Faculty of Arts and Science

SILVER SPONSORS
COMMANDITAIRES



Making our planet more productiveSM



SILVER SPONSORS
COMMANDITAIRES

PEARSON



BRONZE SPONSORS
COMMANDITAIRES



UNIVERSITÉ
Concordia
UNIVERSITY

Centre for Biological Applications
of Mass-Spectrometry



We would like to thank the following people for their time and expertise in judging the student oral and poster presentations at the 2015 CBGRC.

Nous tenons à remercier ces suivants individus pour avoir consacré temps et expertise dans le jugement des présentations orales et d'affiches de la CRCSCB 2015.

Cerrie W. Rogers (Concordia University)
 Dajana Vuckovic (Concordia University)
 Georges Dénès (Concordia University)
 Guillaume Lamoureux (Concordia University)
 Heidi M. Muchall (Concordia University)
 Joanne L. Turnbull (Concordia University)
 Judith Kornblatt (Concordia University)
 Pat Forgione (Concordia University)
 Peter D. Pawelek (Concordia University)
 Peter H. Bird (Concordia University)
 Xavier Ottenwaelder (Concordia University)
 Yves Gélinas (Concordia University)
 Brandon Findlay (Concordia University)
 Sonish Azam (Concordia University)
 Jack Kornblatt (Concordia University)
 Meena Kathiresan (Concordia University)
 Derek O'flaherty (Concordia University)
 Mehdi Sirouspour (Concordia University)
 Tanos Celmar Costa Franca (Concordia University)

- Dorothy Pocock (Concordia University)
Esam Orabi (Concordia University)
Sherifa An (Concordia University)
Sylvain Canesi (Université du Québec à Montréal)
Lekha Sleno (Université du Québec à Montréal)
Benoit Barbeau (Université du Québec à Montréal)
Pompilia Ispas-Szabo (Université du Québec à Montréal)
Shawn Collins (Université de Montréal)
Christian Pellerin (Université de Montréal)
Christian Reber (Université de Montréal)
William Skene (Université de Montréal)
Martine Lamarche (Laboratoire de Sciences Judiciaires et de
Médecine Légale)
Cynthia Côté (Laboratoire de Sciences Judiciaires et de
Médecine Légale)
Nicole Francis (Institut de Recherches Cliniques de Montréal)
Annik Prat (Institut de Recherches Cliniques de Montréal)
Gustavo Arteca (Laurentian University)
Marc Robert Fabian (McGill University)
Rafik Naccache (Institut National de la Recherche
Scientifique)
Eva Hemmer (Institut National de la Recherche Scientifique)
Claudia Lacerda (Military Institute of Engineering)

ORGANIZING COMMITTEE / COMITÉ ORGANISATEUR

Cindy Buonomano and Philippe Archambault
(Co-Organizers)

Brigitte Desharnais (Logistics)

Fei Chen (Outreach)

Cory Campbell (Internal-Sponsorship)

Laura Andrea Rodriguez Solano
(External-Sponsorship)

Franklin Chacón Huete and Vinod Parmar
(Registration Desk)

Paola Andrea Rojas Gutiérrez
(Program Booklet)

Anic Imfeld and Andrew Barber
(Judge Recruitment)

Philippe Archambault
(Website Manager)

**ORGANIZING COMMITTEE
COMITÉ ORGANISATEUR**

ACKNOWLEDGMENTS

We would like to sincerely thank the participants, judges, sponsors and our guest speakers Dr. Karine Auclair (McGill University) and Dr. John Warner (Warner Babcock Institute for green Chemistry, LLC) for making this a highly successful conference.

Our sincerest gratitude goes to Dr. Christine DeWolf, Hilary Scuffell, Dr. Rolf Schmidt, Maria Ciaramella, the Department of Biology, Department of Psychology, Science College, and Concordia Marketing and Communications for their support and expertise. We would like to extend a special thanks to the CBGRC organizing committee for all of their hard work.

We hope you had a wonderful experience at the 18th iteration of the CBGRC and we look forward to seeing you all again next year!

REMERCIEMENTS

Nous tenons à remercier sincèrement les participants, les juges, les commanditaires et les intervenants, Dr. Karine Auclair (McGill University) et Dr. John Warner (Warner Babcock Institute for green Chemistry, LLC), pour avoir participé au succès de cette conférence instructive.

Les plus sincères mercis à Dr. Christine DeWolf, Hilary Scuffell, Dr. Rolf Schmidt, Maria Ciaramella, le département de biologie, département de psychologie, Collège scientifique et communications commercialisation Concordia pour leur soutien et leur appréciation. Nous tenons à remercier particulièrement le comité organisateur de la conférence pour leur dévouement et les longues heures de travail.

Nous espérons que la CRCSCB 2015 fut une expérience très agréable. Nous souhaitons avoir le plaisir de vous compter parmi nous l'année prochaine!