

4th ANNUAL SUMMER SCHOOL

INVITED SPEAKERS



Contact: promote.chemistry@mcgill.ca



It's a fit - Align your values, strengths & growth needs to your career trajectory

N. Huynh PhD
Concordia University



EDI Pushback in STEMM

P. Ibrahim
McGill University



**Sustainability Leadership:
Power and Change**

S. Ajersch
McGill University



EDI Pushback in STEMM

A. Slack
McGill University

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NETWORKING PANEL

Bench 2 Business

Join us for a networking session – learn how our two PROMOTE faculty transformed their academic research to start-up successes....



Prof. A. Vallée-Bélisle
Université de Montréal
Anasens



Prof. Nicolas Moitessier
McGill University
Molecular Forecaster



plus 27 trainee research talks.....

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May 27 - 28, 2024

27 Trainee Research Talks

H. Barber	Fluorine-Modified Antisense Oligonucleotides Targeting the C9orf72 Repeat Expansion in C9FTD/ALS
B. Maru	RNA Activation with Therapeutic Oligonucleotides for Acute Myeloid Leukemia Treatment
S. Abdulmawjood	Detection of Buddy Maple Sap using an Aptamer-based Lateral Flow Assay
S. Roumans	Aptamers for the detection of syphilis ribonuclease HI
O. Li	Advancing spinal cord injury repair: a particles-embedded hydrogel for sustained antifibrotic release
J. Bennett	Reprogramming DNA with a Small Molecule
F. Fungo	Unravelling roles of lipid peroxidation - bacterial membrane vesicle formation (fluorescence microscopy)
D. Knight	DNA Aptamer Chimeras & Peptide Conjugates as a Delivery Vehicle for Treatment of Parkinson's Disease
T. Satkunarajah	Structural Optimization of a Binder for the TPP Riboswitch
H. Kaur	Unlocking the biological significance and therapeutic potential of left-handed DNA duplexes
L. Moreville	Development of a library of fluorescent nanoantennas for the study of protein conformational changes
Q. Zhang	The PCR Recognition and Amplification of O6-Methyl-deoxyguanosine as a DNA Damage
H. Dewling	Single-molecule assay reveals the impact of composition, RNA substrate, and inhibitors on SARS-CoV-2 polymerase complex interactions with RNA
X. Wang	Modular dual-labeled oligonucleotides for biosensing applications

A. Mathai	Towards the development of Genomic RNA detection method using SARS-CoV-2 RNA as a model
J. O'Grady	The Biochemical Characterization of Nucleophosmin Sequestering Aptamers
T. Rutherford	Synthesis and Characterization of DNA Tetrahedra Containing O6-Alkylene 2'-Deoxyguanosine Cross-Links
E. Guo	Synergistic Delivery of Human Neural Progenitor Cells and Thermostabilized Chondroitinase ABC in Tailored Hydrogels for Stroke Recovery
A. Clairoux	How to break a riboswitch: Comprehensive mapping of the functional sequence landscape of bacterial riboswitches
S. Faiad	Strategic Modification of DNA Nanocubes for Improved Stability and Cellular Uptake
Z. Lyu	The use of Acetal Levulinic ester (ALE) chemistry to produce long and functional RNAs
H. Wong	Integrating computation and synthesis into the pipelines of RNA-targeting antiviral development
Y. Nicole	Developing an electrochemical biosensor for the detection of NT-proBNP, a biomarker of heart failure
M. Kojic	Investigating the Regulation of <i>POLA2</i> Expression for the Treatment of Acute Myeloid Leukemia (AML)
L. Yamout	One Assay to Read-through all: a new high-resolution, high-throughput nucleic acid polymerase read-through assay
M. Thijs	Hydrazine Oligonucleotides: New Methodology Enables Versatile Hydrazone Conjugation in Water and Organic Solvents
L. Xu	Organelle-targeted lipophilic fluorogenic antioxidants, opportunities in sensing

