## Workshops: Career & Professional Development



The Real Value of Giving & Receiving Feedback **N. Huynh PhD** Concordia University Skills for Assertiveness & Effective Communication F. Gutierrez-Meyers McGill University Skills for Assertiveness & Effective Communication **D. Simpson** McGill University

PhD Careers in Science R. Maymon PhD McGill University Ethics in Academic Publishing **A. Colosimo** McGill University

## **24 Trainee Research Talks**

T. Rutherford	Synthesis and characterization of DNA tetrahedra containing O <sup>6</sup> -alkylene 2'-deoxyguanosine
	cross-links for controlled disassembly by a DNA
	repair protein
Z. Lyu	Chemical synthesis of long, modified RNAs
	involved in gene editing and protein synthesis
A. Clairoux	Development of a capture-based method for
	separation of riboswitch conformations
S. Yao	Enhancing nuclease resistance through small
	molecule–nucleic acid supramolecular assembly
H. Dewling	Fluorescence-based assays to characterize viral
n. Dewning	polymerases & their inhibition: From single
	molecule to bulk
A. Mathai	
A. Wathai	Antisense oligonucleotide-assisted rolling circle
	amplification improves clinical sensitivity of assays
	for large, structured RNA targets
S. Abdulmawjood	A dipping lateral flow aptasensor for early
	detection of buddy off-flavor in maple sap
O. Li	A synthetic colloidal aggregates-embedded
	hydrogel delivery system for sustained antifibrotic
	therapeutic release
S. Roumans	Towards highly sensitive aptamers for the
	detection of syphilis
H. Kaur	Enhancing AS1411 aptamer stability: structural
	insights from 2'- fluoro-arabino nucleotide
	modifications
S. Tikoo	Synthesis of oligonucleotide conjugates containing
	selenium modified linkers
J. O' Grady	Chemical synthesis, characterization and biological
,	evaluation of a chimeric HER2-binding aptamer
S. Faiad	Chemically modified dendritic conjugates for
J. Fuluu	chemically mounted denuntic conjugates for
	enhanced therapeutic activity

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L. Xu	Organelle-targeted lipophilic fluorogenic
	antioxidants for live-cell imaging of ferroptosis
E. Guo	Co-delivery of thermostabilized enzyme and
	human neural progenitor cells in tailored
	hydrogels enhances recovery after stroke
J. Ma	Improving aptamer binding affinity through
	structured selection strategies and rational
	multimer design
V. Zhang	Reversibly clicked mRNA: a modular approach
	to enhance functionality
H.Wong	Computational methods to discover
	RNA-binding small-molecule inhibitors
J. Bennett	Elucidating the structure to harness the
	function of DNA/small molecule hybrid
	materials
M. Thijs	New synthetic methodology enables rapid
	screening and discovery of hydrazone-based
	fluorescent nucleobase analogues
S. Dao-Tse	Synthesis and evaluation of C5-modified
	arabinonucleic acids
T. Satkunarajah	Medicinal chemistry efforts towards novel TPP
	riboswitch binders
A. Arora	Chemical synthesis & biological evaluation of
	RNA mimics with preserved 2'-OH groups
L. Yamout	Biophysical characterization of G-quadruplexes
	using a fluorescence-based polymerase
	read-through assay
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	NSED
-	Program
	PROMOTE
-	INDIE

5<sup>th</sup> ANNUAL SUMMER SCHOOL May 12 - 13, 2025