



McGill

Department of
Psychiatry | Département
de psychiatrie

Invited Lecturer Series

Dr. Krzysztof Szkop, PhD

Postdoctoral Fellow, The Department of Oncology-Pathology
Karolinska Institute, Stockholm, Sweden

Title: Isoform-Level Translation: A Key Factor in ASD Brain Pathology

Date and Time: Thursday, June 13th, 2024. The lecture will be from 11:00 - 12:00, including Q&A.

Location: In-person at the Bowerman Conference Room B-1127, Dobell Pavilion (Douglas Mental Health University Institute, 6875 Lasalle Boulevard, Montreal) and will also be available [VIA ZOOM.](#)



Biography:

Dr. Szkop completed his PhD studies at Birkbeck, University of London under the supervision of Dr. Irilenia Nobeli, investigating the role of untranslated regions in autism spectrum disorder. He is currently a Postdoctoral Researcher in the group of Dr. Ola Larsson at the Department of Oncology – Pathology at Karolinska Institute in Stockholm. His current and ongoing research is centered on developing and applying bioinformatics approaches to study aspects of RNA fate in the context of human brain disorders and cancer.

Learning Objectives:

- Familiarize with the emerging role of the mTOR pathway in modulating mRNA translation in autism spectrum disorder (ASD) and links to depression and other psychiatric disorders.
- Understand how the selectivity of mRNA translation in ASD is influenced by features within mRNA untranslated regions and therefore understand the significance of studying changes in translation in psychiatric disorders.
- Recognize the potential of integrating isoform-level mRNA translation localization with single-cell transcriptomics/proteomics in identifying new pharmacological targets and biomarkers for psychiatric disorders.