



# Séminaire / Seminar

1<sup>er</sup> février / February 1 (12:00) <sup>HNE/EST</sup>

S'inscrire / Registration: [idigh.ca/webinars/rob-scarborough](https://idigh.ca/webinars/rob-scarborough)



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## Exploring RNA therapies against viral infections

RNA drugs are quickly becoming an alternative drug discovery platform with the ability to engage targets that are not accessible to conventional therapies. The COVID-19 pandemic brought RNA therapies into the spotlight with the rapid development of effective mRNA vaccines. Additional RNA-based molecules have been developed for a wide range of therapies, including as antivirals. I will present my research on the discovery and development of different RNA therapies for use in combination gene therapy to cure HIV-1 infection, including anti-HIV-1 ribozymes, RNA aptamers, short hairpin RNAs and U1 interference RNAs. I will also present my work on identifying effective small interfering RNAs targeting the SARS-CoV-2 RNA genome for development as antiviral medications. Finally, I will present perspectives on identifying immune modulating RNAs for potential broad-spectrum activity against respiratory viruses.



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