

CONFÉRENCE



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Modelling Airborne Infection Risk: Using Risk Calculators to Understand Mitigation Strategies

VENDREDI, 6 NOVEMBRE 2026, 11H30-13H30

Pavillon Charles-Eugène-Marchand, salle Hydro-Québec (1210)

This presentation will introduce the basics of airborne infection risk models and explain how risk calculators have been used during and after the COVID-19 pandemic to inform mitigation strategies. Drawing on examples from my research, I will discuss how ventilation, relative humidity and other measures influence the airborne transmission of respiratory viruses, particularly SARS-CoV-2. The presentation will also consider the assumptions and limitations of these models and how to interpret their results when making practical decisions about indoor environments. environmental and physiological conditions. Preliminary results reveal similarities and differences in the type of somatic mutations that accumulate in long lived birds compared to humans. Collectively, our work reveals how the genome acts as a sentinel of environmental exposures and biological aging, and how different species may help understanding health in the Anthropocene across species.