



OMNI | RÉUNIS

One Health Modelling Network
for Emerging Infections

Réseau une seule santé sur la
modélisation des infections

OMNI-RÉUNIS 2022 DISTINGUISHED LECTURE SERIES

MARCH 15, 2022 | 11:45-13:00 EST

[REGISTER HERE: HTTPS://YORKU.ZOOM.US/WEBINAR/REGISTER/WN_JP5PCBOSLIJRJDAQQ69EW](https://yorku.zoom.us/webinar/register/wn_jp5pcboslijrjdaqq69ew)

ABOUT THE SERIES

OMNI-RÉUNIS is excited to host the first of many lectures as part of its inaugural Distinguished Lecture Series, where we aim to establish the relevance and importance of the various fields and disciplines working to advance research in modelling emerging infectious diseases and reflect on how to include a One Health approach in doing so. Experts are invited to share their research from the lens of their domain in public health, wild and domestic animal health, environment, and the One Health approach, focusing on research problems, data collection and sources, challenges, and the relevance of their fields to modelling. The OMNI-RÉUNIS Distinguished Lecture Series is a high-profile event that is open to all including our network members across 23 academic institutions and collaborators from more than 28 national and international organizations, networks part of the Emerging Infectious Diseases Modelling Initiative (EIDM), funding agencies Natural Sciences and Engineering Research Council of Canada (NSERC) and Public Health Agency of Canada (PHAC), as well the general audience to reach many beyond the traditional academic settings.

LECTURE #1

REFLECTIONS ON MODELLING FOR INFECTIOUS DISEASES IN THE FRAMEWORK OF A ONE HEALTH APPROACH

ABSTRACT

Modelling is a simplification approach that aims to help understand, predict and help make decisions. The health crisis of the last two years has brought to light modelling in epidemiology, which has been around for a long time. Modelling in epidemiology can take very different formats depending on the objectives, data and knowledge available. The interests and disadvantages are not the same depending on the methods used, but there are still common points and points of vigilance.

The modelling of infectious diseases within the framework of a "one health" approach requires taking into account the specificities of animal and environmental populations. These specificities vary according to the scales considered and the objectives envisaged. The presentation will be based on various examples and new approaches will be discussed.



DR. KARINE CHALVET-MONFRAY

Professor Karine Chalvet-Monfray is a veterinarian, full professor of Statistics and Epidemiology at VetAgro Sup (Lyon, France) since 2013. She obtained a PhD in Biometrics in 1996 and accreditation to supervise medical research in 2006. Since 2015, she is deputy head of the research unit "epidemiology of animal and zoonotic diseases" at INRAE. She teaches the modeling of infectious diseases in the faculty of medicine (Lyon and Grenoble). Her topic of interest is the modeling of zoonotic infectious diseases in link with the environment and weather.

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