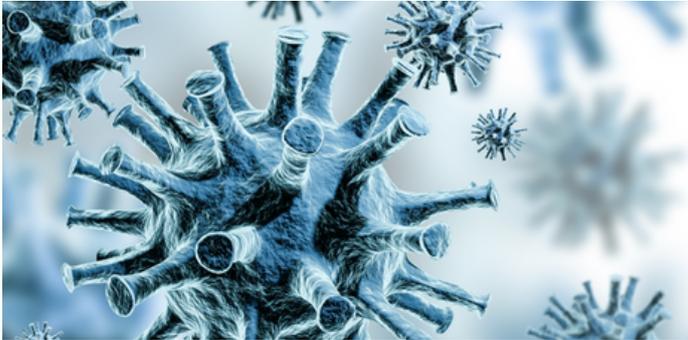


NEWSLETTER

OMNI-RÉUNIS Newsletter



OMNI | **RÉUNIS**
 One Health Modelling Network
 for Emerging Infections | Réseau une seule santé sur la
 modélisation des infections



LAND ACKNOWLEDGEMENT

York University recognizes that many Indigenous Nations have longstanding relationships with the territories upon which York University campuses are located that precede the establishment of York University. York University acknowledges its presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, and the Huron-Wendat. It is now home to many First Nation, Inuit and Métis communities. We acknowledge the current treaty holders, the Mississaugas of the Credit First Nation. This territory is subject of the Dish with One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.

Introducing the OMNI-RÉUNIS Newsletter!



Dr. Huaiping Zhu



Dr. H  l  ne Carabin



Dr. Mark Lewis

A few words from the Co-Directors of OMNI-R  UNIS

Welcome to the first newsletter issue of the One Health Modelling Network for Emerging Infections (OMNI). We are excited to launch this newsletter which will keep you informed on a bi-monthly basis about key network updates, events, trainings, publications, and relevant resources on emerging infectious diseases, modelling, One Health and more.

March: Celebrating Women in STEM



We celebrate the social, economic, and political achievements of all women around the world. We are equally proud to celebrate the vital contributions of all the women in our network advancing research in infectious disease!

[Advancing Women in STEM in the Government of Canada](#)

IN THIS ISSUE

OUR WEBSITE IS LIVE!

FOLLOW US!



MEET OUR SCIENTIFIC ADVISORY COMMITTEE MEMBERS

OMNI DISTINGUISHED LECTURE SERIES

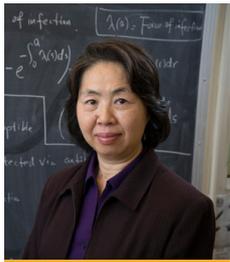
PUBLICATIONS

GRANT OPPORTUNITY

UPCOMING EVENTS

LEARN MORE ABOUT OUR OH NETWORK

Meet our new Scientific Advisory Committee Members



Dr. Zhilan Feng,
Purdue University
(USA)



Dr. Justin Remais
University of
California
(USA)



**Dr. Karine Chalvet
Monfray**
VetAgro Sup (Lyon,
France)



Dr. John Edmunds
University of
London
(United Kingdom)



**Dr. Lancer
Stephens**
University of
Oklahoma (USA)



Dr. Matt Keeling
University of
Warwick
(United Kingdom)

The network welcomes six esteemed experts who have joined the newly formed OMNI-RÉUNIS Scientific Committee to serve a 12-month term as of April 2022. They will provide high-level guidance to OMNI-RÉUNIS governing bodies (Co-Directors, Executive Committee, and Board of Directors) on project themes and research outcomes and engage with the network. Their expertise ranges from modelling zoonotic agents, to epidemiology, to evolution and ecology modelling, to models to address public health and more, as well as equity, diversity, inclusion, and decolonization. To learn about each member, visit the [OMNI-RÉUNIS Scientific Advisory Committee page](#) on our [website](#).

Launch of the Distinguished Lecture Series

Lecture #1: "Reflections on Modelling for Infectious Diseases in the Framework of a One Health Approach"

OMNI RÉUNIS
The Health Research Network for Emerging Infections
Reflections on Modelling for Infectious Diseases in the Framework of a One Health Approach

LECTURE #1
Reflections on Modelling for Infectious Diseases in the Framework of a One Health Approach

DR. KARINE CHALVET-MONFRAY
Professor Karine Chalvet-Monfray is a veterinarian and full professor of Statistics and Epidemiology at VetAgro Sup (Lyon, France) since 2013. She obtained a PhD in Biometrics in 1998 and accreditation to supervise medical research in 2008. Since 2015, she is Deputy Head of the research unit "epidemiology of animal and zoonotic diseases" at INRAE. She teaches the modelling of infectious diseases in the faculty of medicine (Lyon and Grenoble). Her topics of interest is the modelling of zoonotic infectious diseases in link with the environment and weather.

MODERATED BY
DR. HÉLÈNE CARABIN
Full Professor, Faculty of Veterinary Medicine and School of Public Health, Université of Montréal and Co-Director of OMNI-RÉUNIS

JOIN US!
MARCH 15
11:45-13:00 EST

REGISTER HERE

On March 15, we launched the first of many lectures as part of the [OMNI-RÉUNIS Distinguished Lecture Series](#) on Modelling of Infectious Diseases. The event which took place virtually over Zoom was well attended with participants tuning in from universities and institutions across the globe – from Canada, United States, France, China, and more. The link to full lecture is available [here](#) and on our [website](#)! Dr. Chalvet-Monfray, Veterinarian and Full Professor of Statistics and Epidemiology at VetAgro Sup in Lyon, France, was invited to present her *Reflections on Modelling for Infectious Diseases in the Framework of a One Health Approach*.

The bilingual event was moderated by OMNI-RÉUNIS Co-Director Hélène Carabin, Full Professor, Faculty of Veterinary Medicine and School of Public Health, Université of Montréal. Two special guests were in attendance who gave compelling opening addresses to launch the series – [Dr Alejandro Adem](#), President of Natural Sciences and Engineering Research Council (NSERC), and York's [Dr Amir Asif](#), Vice President of Research & Innovation. Visit [York News](#) for the full article on the event.

[Abstract & Bio](#) | [Webinar link](#)
[Speaker's research](#) | [YorkU News Article](#)

Selected Publications by & in Collaboration with OMNI members



School and community reopening during the COVID-19 pandemic: a mathematical modelling study
Yuan Pei, Aruffo Elena, Gatov Evgenia, Tan Yi, Li Qi, Ogden Nick, Collier Sarah, Nasri Bouchra, Moyles Iain and Zhu Huaiping (2022). R. Soc. open sci.



Agent-based epidemiological modeling of COVID-19 in localized environments
P. Ciunkiewicz, W. Brooke, M. Rogers, S. Yanushkevich. Computers in Biology and Medicine (2022).



Epidemic Spreading in Trajectory Networks
Tillemachos Pechlivanoglou, Jing Li, Jialin Sun, Farzaneh Heidari, Manos Papagelis
Big Data Research, 27 (2022), 100275



When host populations move north, but disease moves south: counter-intuitive impacts of climate warming on disease spread
E. Joe Moran, Maria Martignoni, Nicolas Lecomte, Patrick Leighton and Amy Hurford (2022).

For the full list, please visit OMNI-RÉUNIS [Publications](#) page.



Wellcome Trust: Covid-19 – understanding the biological significance of SARS-CoV-2 variants

This call is for research into the biological significance of SARS-CoV-2 variants, focused on laboratory investigations in immunology, virology or structural biology.

Deadline: Monday, April 28 2022, 17:00 (BST): <https://bit.ly/3LrIjV5>

Upcoming Events - EIDM Consortium



OMNI-RÉUNIS Distinguished Lecture Series

Register: [TBA](#)

June: TBA

Speaker: **Dr. Matt Keeling**, University of Warwick

One Society Network (OSN) Seminars

Register

- Apr 7, 2022: Interprovincial Response
- Apr 21, 2022: Education sector
- May 5, 2022: Agriculture sector
- May 19, 2022: Marginalized Populations
- Jun 2, 2022: Mathematical Modelling & Epidemiology

Mathematics for Public Health (MfPh) Colloquium

Register

- Apr 5, 2022: TBA
- Apr 19, 2022: Modeling the transmission of Wolbachia in mosquitoes for controlling mosquito-borne diseases

MfPh Next Generation Seminar Series

Register

- Apr 13, 2022: TBA
- Apr 20, 2022: Coupling of transmission models and deep learning techniques

Learn More about our One Health Network

Background

The One Health Modelling Network for Emerging Infections (OMNI)/Réseau une seule santé sur la modélisation des infections (RÉUNIS), is a newly established network of experts born out of the COVID-19 pandemic. We aim to build a modelling network that will enhance Canada's early detection, warning, and response to emerging infectious diseases by systematically incorporating a multi-species, multi-system One Health approach into our thinking, modelling research and training capacity while also recognizing the unique impact of emerging infectious diseases has on Indigenous peoples and their communities. Awarded \$2.5M in federal funding by the Natural Sciences and Engineering Research Council of Canada (NSERC) and the Public Health Agency of Canada (PHAC), OMNI-RÉUNIS is part of the broader [Emerging Infectious Diseases Modelling Initiative](#) with four other networks.

HQP Training & Research Projects

Visit our OMNI-RÉUNIS website to learn more about our upcoming [HQP Training Activities](#) and our [23 research projects](#) which are built around five research themes: Data Management, Risk for Emergence and Spillovers, Early Warning Systems of Emerging Infectious Diseases, Intervention and Control, and Indigenous Peoples Health and Wellbeing.

