



**11th SYMPOSIUM ON
ANTIMICROBIAL RESISTANCE IN
ANIMALS AND THE ENVIRONMENT**

**11th International Symposium on
Antimicrobial Resistance in Animals
and the Environment**

May 25 – 27, 2027

Centre Mont-Royal • Montréal, Québec, Canada

COMMITTEE / COMITÉ

Organizing & Scientific Committee / Comité organisateur et scientifique

David Roy, PhD, Assistant professor, Université de Montréal, Canada

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Dominic Poulin-Laprade, PhD, Research scientist, Agriculture and Agri-Food Canada, Canada

Marie-Lou Gaucher, PhD, Associate Professor, Université de Montréal, Canada

Nahuel Fittipaldi, PhD, Associate Professor, Université de Montréal, Canada

Kevin Huguet, PhD, Lecturer, Université de Lorraine, France

SCHEDULE / HORAIRE

Tuesday, May 25, 2027 — Day 1 Mardi 25 mai 2027 — Jour 1	
8:00 – 9:00	Welcome & Registration Bienvenue et inscription
9:00 – 9:30	Opening remarks (Research Dean, UdeM) + ARAE Introduction Mot d'ouverture (Doyen à la recherche, UdeM) + Introduction ARAE
Session 1 — AMR Dissemination in the Environment and its Implications for Animal Health and Microbiomes	
9:30 – 10:15	Keynote / Conférencier invité — Edward Topp Title to come
10:15 – 10:30	1 presentation (15 min) 1 présentation (15 min)
10:30 – 11:00	Coffee break / Pause-café
11:00 – 12:00	4 presentations (15 min each) 4 présentations (15 min chacune)
12:00 – 13:30	Lunch break / Dîner
Session 2 — Molecular Mechanisms and Genetic Drivers of AMR	
13:30 – 14:15	Keynote / Conférencier invité — Rebecca Shapiro Title to come
14:15 – 15:00	3 presentations (15 min each) 3 présentations (15 min chacune)
15:00 – 15:30	Coffee break / Pause-café
15:30 – 17:00	6 presentations 6 présentations
17:00 – 18:00	Poster session — Odd-numbered posters Session d'affiches — affiches impaires
18:00 – 20:00	Cocktail reception Cocktail de bienvenue

SCHEDULE / HORAIRE

Wednesday, May 26, 2027 — Day 2 Mercredi 26 mai 2027 — Jour 2	
8:00 – 9:00	Welcome Accueil
Session 3 — Monitoring AMU and AMR: What is New in Surveillance, Diagnostics and Stewardship	
9:00 – 9:45	Keynote / Conférencier invité — Arshnee Moodley Title to come
9:45 – 10:00	1 presentation 1 présentation
10:00 – 10:30	Coffee break / Pause-café
10:30 – 12:00	4 presentations 4 présentations
12:00 – 13:30	Lunch break / Dîner
Session 4 — Advances in AMR Control Strategies	
13:30 – 14:15	Keynote / Conférencier invité — Yves Brun Title to come
14:15 – 15:00	3 presentations 3 présentations
15:00 – 15:30	Coffee break / Pause-café
15:30 – 17:00	6 presentations 6 présentations
17:00 – 18:00	Poster session — Even-numbered posters Session d'affiches — affiches paires
18:00 – 20:00	Social event (details to come) Activité sociale (détails à venir)

SCHEDULE / HORAIRE

Thursday, May 27, 2027 — Day 3 Jeudi 27 mai 2027 — Jour 3	
8:00 – 9:00	Welcome Accueil
Session 5 — Integrating AMU and AMR in the One Health Domain	
9:00 – 9:45	Keynote / Conférencier invité — Herman Barkema Title to come
9:45 – 10:00	1 presentation 1 présentation
10:00 – 10:30	Coffee break / Pause-café
10:30 – 12:00	4 presentations 4 présentations
12:00 – 13:30	Lunch break / Dîner
Session 6 — AMR and Bioinformatics: What is New?	
13:30 – 14:15	Keynote / Conférencier invité — Xiaole (Charlotte) Yin Title to come
14:15 – 15:00	3 presentations (15 min each) 3 présentations (15 min chacune)
15:00 – 15:30	Coffee break / Pause-café
15:30 – 16:30	Presentations / Présentations
16:30 – 17:00	Student Awards Ceremony Cérémonie de remise des prix étudiants

PLENARY SPEAKERS / CONFÉRENCIERS PLÉNIERS

Session 1 Tuesday May 25 — 9:30 to 10:15

Title to come

Edward Topp, PhD



Ed is an environmental microbiologist and chemist and conducts research on animal and crop production practices that are protective of environmental and human health. A particular focus is the mitigation of the development and transmission of antimicrobial resistance. Since July 2023, Ed Topp has held the ANR/INSERM Senior Chair in France's Priority Research Program on Antibiotic Resistance, and is Director of Research in the Agroecology unit at the INRAE research center in Dijon. Prior to his arrival in France, he was a Principal research scientist with Agriculture and Agri-Food Canada (AAFC). He was also the scientific coordinator (2016-23) of the Federal genomics research and development initiative on antimicrobial resistance [GRDI-AMR], a key element of the Canadian federal antimicrobial resistance action plan. He has published over 325 peer-reviewed papers, and co-authored the 2023 United Nations Environmental Programme report "Bracing for superbugs: Strengthening environmental action in the One Health response to antimicrobial resistance" [<https://www.unep.org/resources/superbugs/environmental-action>]. Ed is a past president of the Canadian Society for Microbiologists (2011).

Abstract

Abstract to come.

Session 2 Tuesday May 25 — 13:30 to 14:15

Title to come

Rebecca Shapiro , PhD



Dr. Rebecca Shapiro is an Associate Professor in Molecular and Cellular Biology at the University of Guelph, with expertise in fungal pathogenesis, functional genomics, and microbial engineering. Dr. Shapiro's current research develops cutting-edge CRISPR-based tools for functional genomic analysis, with applications to studying virulence and drug resistance in fungal pathogens. Dr. Shapiro is a Tier II Canada Research Chair in Microbial Functional Genomics and Synthetic Biology.

Abstract

Abstract to come.

Session 3 Wednesday May 26 — 9:00 to 9:45

Title to come

Arshnee Moodley, DVM, PhD



Arshnee Moodley is the Team Lead for AMR at the International Livestock Research Institute in Nairobi, Kenya and Associate Professor at the University of Copenhagen in Denmark. Her work sits at the interface of science, policy and practice, with a focus on responsible antimicrobial use and the mitigation of AMR risks in livestock, particularly in smallholder and semi-intensive systems in low- and middle-income countries. She works closely with governments, international organisations, research institutions and national partners to generate practical, policy-relevant evidence that can improve animal health, support sustainable livestock production, and protect food safety and public health. Arshnee currently chairs the World Organisation for Animal Health's Working Group on Antimicrobial Resistance and the Steering Committee of the Quadripartite AMR Multi-Stakeholder Partnership Platform.

Abstract

Abstract to come.

Session 4 Wednesday May 26 — 13:30 to 14:15

Title to come

Yves Brun, PhD



Dr. Yves Brun is a full professor in the Department of Microbiology, Infectious Diseases and Immunology at the Université de Montréal, where since 2019 he has also held the Canada 150 Research Chair in Bacterial Cell Biology. His research focuses on bacterial elongation, peptidoglycan synthesis, and morphogenesis; bacterial adhesion, surface sensing, and biofilm formation; as well as on new perspectives for combating bacterial resistance to antibiotics.

Dr. Brun has received numerous awards for his scientific contributions, including election as a Fellow of the Royal Society of Canada in 2021 and the 2019 Murray Award for Career Achievement from the Canadian Society of Microbiologists.

He is the Director of PandemicStop-AI, a pan-Canadian consortium to accelerate the discovery of antibiotics using high-throughput methods and machine learning, and a co-Principal Investigator on the project "ML-driven small molecule design of Klebsiella-specific antibiotics," funded by the Gates Foundation. This effort is part of a broader international consortium, the Gram-Negative Antibiotic Discovery Innovator (Gr-ADI)

Abstract

Abstract to come.

Session 5 Thursday May 27 — 9:00 to 9:45

Title to come

Herman Barkema, DVM, PhD



Herman Barkema is a full professor in the Epidemiology of Infectious Diseases at the University of Calgary. He specializes in infectious diseases in cattle. His research focuses on the prevention and control of diseases in dairy herds, particularly mastitis and antimicrobial resistance. He also studies the interactions between animals, microbes, and the environment in the development of antimicrobial resistance.

He leads several international research initiatives, including CAN-AMR-Net and the AMR–One Health Consortium. His work has influenced disease prevention and control programs in Canada and other countries, contributing to safer food production and improved public and animal health.

Abstract

Abstract to come.

Session 6 Thursday May 27 — 13:30 to 14:15

Title to come

Xiaole (Charlotte) Yin, PhD



Dr. Xiaole (Charlotte) Yin is an Assistant Professor in Nanyang Technological University, Singapore. She obtained her PhD from The University of Hong Kong, supervised by Chair Professor Tong Zhang and she was a Postdoctoral Research Fellow at Brigham and Women's Hospital, Harvard Medical School. Dr. Yin's research focuses on data-driven exploration of the intricate interactions among the microbiome, humans, and the environment. To date, Dr. Yin has published over 43 peer-reviewed journal articles, including five ESI Highly Cited Papers. She has led the development of several acclaimed bioinformatics tools, such as ARGs-OAP, Sargfam, ARGs-MST, ICEcream, ARGbert, ResistanceWWTP and others. Dr. Yin has received numerous awards, including the Environmental Science & Technology 2023 Best Paper Award.

Abstract

Abstract to come.

Collaboration

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