THE NETWORK

The goal of our Global One Health Network (Global 1HN) is to strengthen Canadian leadership in improving the global governance of infectious diseases (IDs) and antimicrobial resistance (AMR) by building and sustaining a transdisciplinary and intersectoral one health (OH) Network, originating in Canada but extending globally.

Global 1HN will bring together researchers and knowledge users with a background in the social sciences with those in the human, animal, and environmental health sciences to develop a transdisciplinary approach to ID and AMR governance at global, national, and local levels. In doing so, it will complement and be closely integrated with its European counterpart (SoNAR-Global), and other leading global OH research initiatives to avoid duplication and maximise synergy.

These are the specific objectives of Global 1HN:

- To develop and sustain a Network of local, national and international state and non-state actors to facilitate collaborative interactions among civil society, academics, industry, and policy communities.
- To strengthen capacity for inter- and transdisciplinary research on, and the practice of, global governance of IDs and AMR.
- To facilitate evidence-informed actions through: synergistic engagement of social and health sciences approaches to OH global governance; identifying and addressing existing barriers to, and enhancing existing and potential enablers of OH governance; and developing a OH evaluation framework.
- To facilitate the implementation of a transdisciplinary OH approach to global governance of IDs and AMR through an integrated knowledge translation strategy.
We have developed four Network Work Packages (WPs) to address our specific objectives.

WP1 (Network Management activities) focuses on developing and maintaining networking capacity through annual meetings and regular communications with network members.

WP2 (Enhance Research Capacity) aims to enhance transdisciplinary research capacity in OH, emphasizing social science engagement with other OH disciplines, by ongoing mapping of national and international actors and programmatic interventions in this research and policy space; competitively offering small seed grants to promote transdisciplinary and intersectoral research collaborations; providing financial support to student trainees to systematicallyreview the literature on OH global governance of IDs and AMR and identify case studies; organizing student exchanges across Network sites and with SoNAR-Global; and creating a virtual OH curriculum for global governance of IDs and AMR to be applied in a Summer Institute on OH Global Governance of IDs and AMR.

WP3 (Develop Research Enabling Platforms) will enhance the collaborative and synergistic engagement of social and health sciences approaches to OH global governance by creating four research enabling platforms (REPs) to facilitate the development of novel transdisciplinary research collaborations.

WP4 (Connect and Engage) focuses on knowledge translation across network activities and with knowledge users to facilitate implementation of our emerging comprehensive OH approach, through: monitoring and supporting the knowledge mobilization activities of each WP and REP; identifying opportunities and mechanisms for acting on evidence and synergies across WPs and REPs; developing an open access virtual platform for knowledge sharing through a policy brief and webinar series; facilitating high-level policy dialogues involving government, private sector, and civil society stakeholders; and establishing a OH Global Governance Community of Practice for IDs and AMR.
is one of the early pioneers in the study of Global Health (GH), elucidating the problems at hand and advancing policy responses, working with various activist bodies, such as PAHO and the WHO. He conducted the first studies on health and foreign policy, bringing theoretical and empirical analyses on how health becomes a priority within global policy processes. He was the Nominated Principal Applicant of a CIHR Catalyst Grant on the Global Governance of Antimicrobial Resistance and Infectious Diseases (April 2018 to April 2019), and has an extensive publication record in the area of global health governance. He is an active member of the People’s Health Movement.

has advanced the Infectious Diseases epidemiology, Global Health and One Health fields by using sophisticated epidemiological and statistical methods to improve the measurement of associations between human, animal and environmental risk factors and zoonotic infections while developing and evaluating community-based interventions to control infections. She has played a leading role incorporating several neglected tropical zoonoses in the global burden of disease estimates. She is currently a member of the Lancet Commission on One Health.

As head of PHAC’s Centre for Communicable Diseases and Infection Control, Dr. Ephrem is Canada’s main representative on most questions surrounding the global governance of IDs and AMR. She is also Vice-Chair of the Global AMR Research and Development Hub and a member of the Trans-Atlantic Task Force on AMR (TATFAR).
MEMBERS

DR. CÉCILE AENISHAENSLIN
Assistant Professor
Dép. de pathologie et de microbiologie
Faculté de médecine vétérinaire
Université de Montréal, QUÉBEC

Dr. Aenishaenslin is an interdisciplinary researcher with a focus on the design and evaluation of One Health approaches, systems and public policies for the surveillance, prevention and control of antimicrobial resistance and zoonotic diseases. She currently plays a leadership role in several research projects, including the Canadian Lyme Disease Research Network where she co-leads one of the four research pillars entitled Knowledge Translation, Community Engagement and Training. She also co-leads a research project aimed at preventing rabies in northern indigenous communities in Canada.

DR. HERMAN BARKEMA
Professor Epidemiology of Infectious Diseases, Dept. of Production Animal Health and Community Health Sciences
Faculty of Veterinary Medicine and Cumming School of Medicine (cross-appointed)
University of Calgary, ALBERTA

Dr. Barkema is the NSERC Industrial Research Chair in Infectious Diseases of Dairy Cattle, funded by NSERC and 10 Canadian dairy organizations. Dr. Barkema has led numerous research projects on cattle health and wellness and leads the multidisciplinary training component of the NSERC CREATE grant of the Canadian Bovine Mastitis and Milk Quality Research Network. Dr. Barkema leads the U. Calgary Biostatistics Centre, the Environment research theme in the Canadian Bovine Mastitis Research Network, the Antimicrobial Resistance - One Health Consortium, and U. Calgary’s One Health Emerging Cross-cutting Research Theme.

DR. REED BEALL
Assistant Professor
Cumming School of Medicine and O’Brien Institute for Public Health
University of Calgary, ALBERTA

An interdisciplinary researcher, Dr. Beall investigates the social determinants of (in)equitable prescription drug innovation and access. He is an Assistant Professor in Healthcare Policy in the Department of Community Health Sciences within the Cumming School of Medicine and at the O’Brien Institute for Public Health. He is also affiliated faculty with the Program on Regulation, Therapeutics, and the Law based within the Division of Pharmaceutical and Economics at the Brigham and Women’s Hospital and Harvard Medical School. He was invited to testify about his research to the trilateral technical symposium of the WHO, the World Intellectual Property Organization, and the World Trade Organization in Geneva, Uppsala, Rotterdam and Hradec. He also is the PI for a large Alberta Innovates grant looking at the use of probiotics as primary prevention for C. difficile colitis.

DR. WASHINGTON BENÍTEZ ORTIZ
Faculty of Veterinary Medicine and Zootechnics, Universidad Central de Ecuador
Centro Internacional de Zeonosis (CIZ)
EQUADOR

Dr. Benítez Ortiz is professor of the Faculty of Veterinary Medicine and Zootechnics at the Central University of Ecuador, and co-founder of the CIZ. Dr. Benítez Ortiz’s research focuses in the Taeniasis/Cystercerosis Complex. His experience also encompass Immunology, Epidemiology, Parasitology, Bacteriology and public Health.

DR. JOHN CONLY
Professor
Cumming School of Medicine
University of Calgary, ALBERTA

Dr. Conly is Professor and Co-Director of the Snyder Institute for Chronic Diseases and Medical Director for Antimicrobial Stewardship for Alberta Health Services, Calgary Zone. He is the founding Co-Chair of the Canadian Hospital Epidemiology Committee, past President of the Canadian ID Society, past Chairman of the Board for the Canadian Committee on Antibiotic Resistance. Presently, a member of the Canadian Expert Advisory Group on AMR and the WHO Advisory Group on Integrated Surveillance of AMR. He is also a grant recipient of CIHR funding via the European Joint Programming Initiative on AMR (JPIAMR), comprised of research centres in Calgary, Geneva, Uppala, Rotterdam and Hradec. He is also the PI for a large Alberta Innovates grant looking at the use of probiotics as primary prevention for C. difficile colitis.

DR. PATRICK FAFARD
Professor
Faculty of Social Sciences
Associate Director, Global Strategy Lab
University of Ottawa, ONTARIO

Dr. Fafard is one of a small group of political scientists whose research focuses on the national and global politics and public administration of public health. He has written and collaborated with scholars from across Canada and abroad on what has come be known as ‘health political science’. Examples include the role of scientific advisory committees to international organizations, the role of scientific evidence in the making of public health policy, and the structure and autonomy of senior public health leaders in Canada. He provides advice to health organizations across Canada.

DR. JANICE GRAHAM
University Research Professor
Pediatrics (Infectious Diseases); Faculty of Medicine
Dalhousie University, NOVA SCOTIA

Dr. Graham has presented evidence to the Science Policy Directorate, the Office of Legislative and Regulatory Modernization, the Parliament of Canada, WHO and UN on regulatory risks and the safety and effectiveness of emerging therapeutics and vaccines. She was a member of the Scientific Advisory Group for the WHO Guinea Ebola clinical trials that proved the vaccine was effective. She is a member of the Canadian Immunology Research Network, and the J. Monnet EU Centre of Excellence Health Law and Policy Network.

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Her research combines international relations, critical security studies and global public health. Her current research remains focused on AMR governance, and includes a SSHRC-funded project exploring how sovereignty is negotiated in and through global AMR governance efforts, and a CIHR-funded project exploring the prospects for Indigenizing AMR and innovation issues. He is a member of the Expert Advisory Group of the Global AMR R&D Hub (2019-2020) and a member of the World Health Organization Guideline Development Group on the use in food animals of critically important antimicrobial agents for human medicine. He is PI of the CIHR grant on “C. difficile near patient testing”; and the JPIAMR grant on “Aligning industry incentives with AMR control goals”. He is a member of the leadership team of University of Calgary’s One Health research theme.

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The goal of CNNTD, of which NPA Carabin is a member of the Steering Committee, is to help control and ultimately eliminate some 20 neglected tropical diseases through a One Health approach. CNNTD can contribute to Global-1HN by fostering linkages across communities of practice, participation in meetings, and joint development of policy and practice interventions.

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The two principals of the Centre - the Director and Dr. Moon - are closely involved in both research efforts and multilateral policy debates on how to strengthen global capacity to manage outbreaks of ID. Dr. Moon co-authored with Ngaire Woods the 2018 background report to inform the Inter-agency Coordination Group on AMR on the future of the global governance of AMR. Her research and teaching focuses on global governance, the political economy of global health (focusing on outbreak preparedness and response; innovation and access to medicines; trade, investment and intellectual property rules; and development assistance for health), the evolution of international regimes, and innovative policies for addressing global problems. She was also director of the Harvard-LIHTM Independent Panel on the Global Response to Ebola.

is Chair of the Antimicrobial Stewardship Working Group of Health Standards Organization. He is also Chair of the Antimicrobial Stewardship Committee of the Society for Hospital Epidemiology of America (SHEA), and past Chair of the parallel committee for the Association of Medical Microbiology and Infectious Diseases (AMMI) Canada. He was appointed to the Canadian Government’s Expert Advisory Group on AMR (EAGAR) in 2015, served as a member of the relatively new WHO Collaborating Centre on the Global Governance of AMR. He will contribute by collaborating to define priorities and bolstering global political mobilization and accountability for infectious disease commitments, while participating in critical enquiry into how to manage the global collective action problem that AMR poses.

will help facilitate the engagement of Global-1HN with leading international research centres and knowledge users addressing ID and AMR policy development and research. This will enhance the Network’s capacity to support governments and multilateral agencies to craft evidence-based strategies and policies.

has extensive clinical, leadership, advocacy and research experience in global health. A few examples of his past roles in this field include co-chairing the founding of the Drugs for Neglected Diseases Initiative, founding Board Member for the Global Alliance for TB Drug Development, and co-founding Dignitas International, which supports over 370,000 people with HIV-AIDS treatment in Malawi and develops First Nations community-based health interventions. He is a member of the Executive Committee of the Inter-agency Coordination Group on AMR on the future of the global governance of AMR. As Minister of State in charge of Primary Health Care for Rwanda, Dr. Ndimubanzi is keen to work with Global-1HN during the implementation of the country’s One Health Strategic Plan 2019-2024 (Phase II) which will be tackling human, animal and plant health, including infectious diseases and AMR.

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Infectious Diseases, Department of Community Health Sciences, Faculty of Medicine and Health Sciences, University of Calgary, Alberta

Dr. Melanie Rock
Professor, Department of Community Health Sciences, Cumming School of Medicine, University of Calgary, Alberta

She holds the Canada Research Chair on Community Approaches and Inequalities in Health and is Director of the Institut de recherche en santé publique de l’Université de Montréal. Her main research interests are Population Health, Intervention Research and the role of social environments in the local production of health and health equity. Her collaborative research projects examine and links the processes and outcomes of complex community-based interventions, that address structural determinants of health such as food security or housing. She is the Editor-in-Chief of the Canadian Journal of Public Health.

Dr. Louise Potvin
Professor, Département de médecine sociale et préventive, École de Santé Publique, Université de Montréal, Quebec

Dr. Louise Potvin is an anthropologist and social worker. Her primary appointment is the Dep. of Community Health Sciences, where she led the strategic reform of interdisciplinary master’s and doctoral programs in population and public health. From 2016 to 2018, Dr. Rock served as the Associate Scientific Director in the O’Brien Institute for Public Health, and she remains involved as a strategic advisor. Also at the U. of Calgary, she has adjunct appointments in the Dep. of Community Health Sciences, and she remains involved as a strategic advisor. Also at the U. of Calgary, she has adjunct appointments in the Dep. of Community Health Sciences, and she remains involved as a strategic advisor. Also at the U. of Calgary, she has adjunct appointments in the Dep. of Community Health Sciences.

Dr. J. Scott Weese
Professor, Department of Pathobiology, Ontario Veterinary College (OVC), University of Guelph, Ontario

He is Chief of Infection Control at the OVC Teaching Hospital. He is a Zoonotic Disease/Public Health Microbiologist at the U. of Guelph’s Centre for Public Health and Zoonoses. He is co-lead of a 2M grant from CIHR to study AMR, the risk of infections from animals to people and the spread of resistance. Joint collaboration will use molecular methods to compare antibiotic-resistant bacteria in France, Germany and Canada from humans, food and animals. His lab is dedicated to infectious and zoonotic diseases, multi-drug resistant pathogens, and interspecies transmission of pathogens.
has extensive experience in Public Health, Epidemiology and Zoonosis, as well as in Biotechnology and Molecular Biology. As professor of the Faculty of Veterinary Medicine and Zootecnhics at the Central University of Ecuador, his research is focused on bacteria and parasites affecting livestock.

is the Founding Director of the Global Health Governance Programme and Associate Fellow at the Chatham House Centre on Global Health Security. She is author of Governing Global Health: Who Runs the World and Why? (2017) as well as many journal articles on global health governance. Dr. Sridhar, along with Ngaire Woods, also wrote One Health Approach Global Governance of Antimicrobial Resistance, the background report informing the Interagency Coordination Group on Antimicrobial Resistance (IACG) discussions on Global Governance of AMR.

The School of Public Health will support Global-1HN by facilitating engagements with researchers and knowledge users in India working on ID and AMR governance and policy matters.

Fiocruz partnered with NPA Labonté in a CIHR-funded research project on global health diplomacy, focusing on the rise of AMR as a foreign policy issue, amongst other topics.

As Professor of Health Policy addressing Global Health Governance, she has expertise in the design of comparative frameworks to evaluate transnational governance models guiding the development of harmonized global health agreements and standards. A comparative lens enables her to identify distinctive governance approaches that foster social accountability across case study areas, including international treaties to address such collective action problems as the management of AMR. Dr. Wiktorowicz is a member of the WHO Collaborating Centre on the Global Governance of AMR. She has advised the Canadian Senate Standing Committee on Social Affairs, Science and Technology, the House of Commons Standing Committee on Health and the Ontario Ministry of Health and Local Health Integration Networks.

An interdisciplinary scholar trained in Bioethics, Dr. Williams-Jones is interested in the socio-ethical and policy implications of health innovations in diverse contexts. His work examines the conflicts that arise in academic research and professional practice with a view to developing ethical tools to manage these conflicts when they cannot be avoided. Current projects focus on issues in professional ethics, public health ethics, research integrity and ethics education. He heads the Research Ethics and Integrity Group, is Editor-in-Chief of the Canadian Journal of Bioethics, and Co-director of the Ethics Branch in the Observatory on the Societal Impacts of AI and Digital Technology (OISIAN).

has partnered with NPA Carabin on a number of One Health epidemiological studies in the Caribbean Basin and elsewhere. He serves on the Boards of both the One Health Commission and AVMA’s Committee for International Veterinary Affairs addressing One Health governance and implementation. In addition, Ross University School of Veterinary Medicine has a framework agreement in place with the Pan-American Health Organization in the areas of neglected infectious diseases.
The Lancet Commission on One Health aims to raise awareness and demonstrate the need for a One Health approach to tackle endemic and emerging infections as well as AMR. It is keen to work with Global-1HN, particularly in that it will expand awareness of the social sciences role in surveillance, control, response and preparedness to emerging infections, endemic diseases and antimicrobial infections.

**DRS. ANDREA WINKLER & JOHN AMUASI**

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**DR. ALEX WONG**

Associate Professor
Department of Biology
Carleton University, ONTARIO

leads an international joint initiative (CIHR funded) to support research on AMR. The research will contribute to the development of policies and practices aimed at slowing the evolution and spread of resistance. His research aims to understand the evolution and genetics of AMR, with the goal of mitigating the spread of resistance through stewardship and novel drug development. His project is building networks within Canada, and with researchers in Portugal and Denmark.

**DR. KUMANAN WILSON**

Professor of Medicine and Senior Scientist
Ottawa Hospital Research Institute
University of Ottawa, ONTARIO

holds a Research Chair in Public Health Innovation from The Ottawa Hospital, the Dep. of Medicine and the Ottawa Hospital Research Institute. He specializes in policy-making in areas of health protection and public health security. One of his current areas of focus is pandemic influenza preparations and the IHR. He is presently collaborating with the WHO and Georgetown U. to evaluate WHO support of National IHR Focal Points to fulfill their functions under the IHRs. He also maintains an interest in health ethics, law and policy.

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**DR. HUAIPING ZHU**

Department of Mathematics and Statistics
York University, ONTARIO

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is an epidemiologist and is specialized in integrating tools from epidemiology, public health, informatics, and statistics to untangle the causes and patterns of vector-borne diseases as well as intervention evaluation. She also examines the impact of climate change on spread and burden of infectious diseases. Dr. Zinszer works in several different countries including Canada, Brazil, Colombia, and Uganda, collaborates with various Ministries, local public health authorities, and community partners. She is currently a FRQS Junior 1 scholar and the NPA on a CIHR funded project “Sustainable, healthy cities: a cluster randomized controlled trial for Aedes control in Brazil”. She is leading or a co-investigator on several different projects ranging from arboviral disease surveillance in Colombia to climate change migration in the Caribbean.

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**DR. KUMANAN WILSON**

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holds a Research Chair in Public Health Innovation from The Ottawa Hospital, the Dep. of Medicine and the Ottawa Hospital Research Institute. He specializes in policy-making in areas of health protection and public health security. One of his current areas of focus is pandemic influenza preparations and the IHR. He is presently collaborating with the WHO and Georgetown U. to evaluate WHO support of National IHR Focal Points to fulfill their functions under the IHRs. He also maintains an interest in health ethics, law and policy.
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