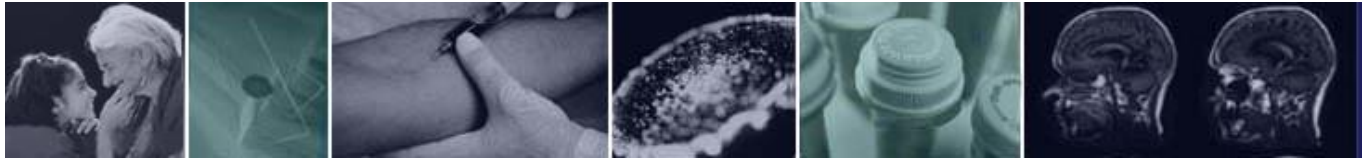




Canadian Academy of Health Sciences
Académie canadienne des sciences de la santé

*Evidence for a healthier Canada
Des données probantes pour un Canada en meilleure santé*



EVENT PROGRAM



Forum & Annual General Meeting

Thursday & Friday, September 14 & 15, 2017

Fairmont Château Laurier

1 Rideau Street, Ottawa, Ontario

Thursday, September 14, 2017

AGENDA

AGENDA

- 07:00 – 08:00 **REGISTRATION & BREAKFAST**
Location: DRAWING ROOM FOYER, GROUND FLOOR
- 08:00 – 12:00 **MAJOR FORUM**
Location: DRAWING ROOM, GROUND FLOOR
- 12:00 - 13:15 **LUNCHEON**
Location: LAURIER ROOM, GROUND FLOOR
- 13:15-17:10 **MAJOR FORUM**
Location: DRAWING ROOM, GROUND FLOOR
- 18:00 – 19:00 **RECEPTION**
Location: LAURIER ROOM, GROUND FLOOR
Business attire
- 19:00 – 22:00 **DINNER & EVENING PROGRAM**
Location: LAURIER ROOM, GROUND FLOOR
Business attire
- **2017 DISTINGUISHED FELLOW HENRY G. FRIESEN C.C., OM, MD, FRSC, FRCP(C), FCAHS**
 - **2017 FELLOW INDUCTION CEREMONY**

MISSION, VISION, VALUES

MISSION	To inform policy and practice by mobilizing the best scientific minds to provide independent and timely evidence-based assessments of critical health challenges affecting Canadians
VISION	Informed actionable solutions that improve the health of Canadians
VALUES	<i>CAHS is:</i> <ul style="list-style-type: none">• Collaborative• Objective• Transparent• Expert• Strategic• Independent
OUR PROMISE	The CAHS pledges to serve Canadians by volunteering the time and expertise of our Fellows in conducting independent, unbiased, expert assessments on health-related topics of major importance to Canada.

STRATEGIES TO CONTROL THE ANTIMICROBIAL RESISTANCE *TSUNAMI*: IS CANADA DOING ITS PART?

Objectives

- To improve understanding of the landscape and current science of antimicrobial resistance
- To explore global and national frameworks within a “One Health” concept
- To debate Canada’s contributions to addressing the antimicrobial resistance crisis within the proposed pan-Canadian framework
- To develop the foundation for a CAHS major assessment in responding to antimicrobial resistance

Modern medicine is inconceivable without the availability of effective antimicrobial drugs. The continuing global emergence and spread of antimicrobial resistant bacteria and of resistance genes is a major threat to humanity. Antimicrobial resistance is a complex and urgent problem that will need multiple approaches to counter. Addressing the threat of antimicrobial resistance requires a concerted global effort by many countries. The 2015 World Health Assembly adoption of a global action plan on antimicrobial resistance has brought a much needed focus on the issue.

In Canada, the lack of progress in mobilizing the relevant stakeholders in Canada’s response to AMR was highlighted in the Auditor-General’s 2015 spring report. However in late 2014 the federal government announced a Canadian federal framework for action on antimicrobial resistance (AMR) that had three pillars: surveillance, stewardship, and innovation. Subsequently, the federal government worked with the provinces and territories, and with stakeholders, to develop the pan-Canadian FRAMEWORK FOR ACTION that will be the basis of a future pan-Canadian action plan. The pan-Canadian framework - which is expected to be announced by the federal-provincial-territorial Ministers of Health and Ministers of Agriculture by the time of this Forum - takes a One Health approach that integrates the human and animal dimensions of AMR, with a focus on surveillance, infection prevention and control, stewardship, and research and innovation. The future action plan is being developed through the voices of everyone involved in the issue.

Our 2017 Forum focus on AMR is designed both to educate Fellows about the issue and to debate whether Canada is doing its full part in addressing AMR. Can we use the collective expertise of our fellowship to engage with and discuss the many dimensions of AMR and to contribute to the essential elements of a national action plan?

Sincerely,

JOHN CONLY MD

Forum Co-Chair

Professor, Departments of Medicine, Microbiology, Immunology and Infectious Diseases, O’Brien Institute for Public Health and Co-Director, Synder Institute for Chronic Diseases, University of Calgary and Alberta Health Services, Calgary, Alberta

JOHN PRESCOTT VetMB, PhD

Forum Co-Chair

Professor Emeritus, Department of Pathobiology, University of Guelph, Guelph, Ontario

The Academy is most grateful for the contributions of members of the Standing Committee on Annual Meeting Planning (SCAMP) - **Drs. John Cairns, Carol Herbert, Chris Naus, Louise Potvin, Proton Rahman, Gavin Stuart (Chair)** - for their wise counsel in the planning of this event.

AGENDA

08:00-08:05	Welcome	CAROL HERBERT* , President, Canadian Academy of Health Sciences
08:05-08:10	Introductory Comments	JOHN CONLY* AND JOHN PRESCOTT* , Forum Co-Chairs
08:10-08:15	Greetings & Assessment Plan	ERIC MESLIN* , President & Chief Executive Officer, Council of Canadian Academies
08:15-08:25	Greetings	OFFICE OF THE CHIEF MEDICAL HEALTH OFFICER
	Session Moderator	ANDRÉ PICARD , Health Columnist, The Globe and Mail
08:25-09:05	Keynote Address <i>International perspective</i>	THE WORLD HEALTH ORGANIZATION GLOBAL ACTION PLAN ON ANTIMICROBIAL RESISTANCE MARC SPRENGER MD Director, Antimicrobial Resistance Secretariat, World Health Organization <i>Brief Q & A for clarification</i>
09:05-09:20		
09:20-10:00	Keynote Address <i>National perspective</i>	THE PAN-CANADIAN FRAMEWORK ON ANTIMICROBIAL RESISTANCE SIDDIKA MITHANI MD President, Public Health Agency of Canada <i>Brief Q & A for clarification</i>
10:00-10:10		
10:10-10:30		BREAK
10:30-11:00	Pro Con Debate OXFORD RULES	A ONE HEALTH STRATEGY IS THE BEST APPROACH TO SEEK SOLUTIONS TO ANTIMICROBIAL RESISTANCE AS A PUBLIC HEALTH CRISIS <u>PRO</u> HERMAN BARKEMA* , University of Calgary THOMAS MARRIE* , Dalhousie University <u>CON</u> LINDSAY NICOLLE* , University of Manitoba CARLTON GYLES* , University of Guelph
11:00-11:10		<i>Academy Discussion</i>
11:10-12:00	Plenary	WHAT IS HAPPENING WITH SURVEILLANCE OF ANTIMICROBIAL RESISTANT ORGANISM THREATS IN CANADA? <i>Are we effectively detecting and monitoring trends and threats in order to inform strategies to reduce the risks and impacts of antimicrobial resistance? What are the major gaps?</i> MICHAEL MULVEY AMR Surveillance in Humans in Canada, National Microbiology Laboratory & University of Manitoba REBECCA IRWIN PHAC Canadian Integrated Program for Antimicrobial Resistance Surveillance ED TOPP Agriculture and Agri-Food Canada
12:00-12:10		<i>Academy Discussion</i>

Thursday, September 14, 2017

MAJOR FORUM PROGRAM continued

12:15-13:30

LUNCH

ACADEMY RELATIONS AND SCIENCE POLICY

ERIC MESLIN*, President & CEO, Council of Canadian Academies

13:30-14:00

Point to
Counterpoint

DO WE HAVE EFFECTIVE STEWARDSHIP IN THE HUMAN AND VETERINARY SECTORS IN CANADA?

Are we conserving the effectiveness of existing treatments through infection prevention and control guidelines and practices, education and awareness, regulations, and oversight?

Will removing antimicrobial growth promoters and making all antimicrobials use in feed animals veterinary prescription only reduce resistance? What else is needed, and can agriculture and veterinary medicine rise to the challenge?

POINT

DAVID PATRICK UBC School of Public and Population Health

SCOTT McEWEN University of Guelph

COUNTERPOINT

ALISON McGEER University of Toronto Dalla Lana School of Public Health

JOHN PRESCOTT* University of Guelph

14:00-14:15

Academy Discussion

14:15-15:30

Point to
Counterpoint

ARE WE CREATING INNOVATIVE NEW SOLUTIONS TO COUNTERACT LOSS IN ANTIMICROBIAL EFFECTIVENESS THROUGH RESEARCH AND DEVELOPMENT, NEW DIAGNOSTICS AND FINDING NEW ANTIBIOTICS?

POINT

Innovations R & D: **MARC OUELLETTE***, Université Laval

Innovations in New Diagnostics: **JO-ANNE DILLON***, University of Saskatchewan

Innovations in New Antibiotics: **GERRY WRIGHT**, McMaster University

COUNTERPOINT

What Innovations R & D & Diagnostics? **ROBERT HANCOCK***, University of British Columbia

Probiotics and Other Beneficial Microbes: **THOMAS LOUIE**, University of Calgary

Academy Discussion

15:30-15:45

Break

BREAK

15:45-16:55

Academy
Discussion

Informing the Assessment Question

16:55-17:00

Concluding
Remarks

CAROL HERBERT*, President, Canadian Academy of Health Sciences

* Fellow, Canadian Academy of Health Sciences

Thursday, September 14, 2017

18:00: RECEPTION; 19:00 DINNER WITH DISTINGUISHED FELLOW AWARD & NEW FELLOW INDUCTION CEREMONY

18:00

RECEPTION

19:00

EVENING PROGRAM *(separate program)*

2017 DISTINGUISHED FELLOW

Distinguished Fellow is the highest honour awarded by the Academy. It is open to individuals who must meet the usual criteria for Fellowship, but whose accomplishments are considered of such high distinction that only a select few are worthy of this designation.

INTRODUCTION BY CAROL HERBERT, PRESIDENT



THE UNTRAVELED WORLD UNDERSTOOD BACKWARDS BUT LIVED FORWARDS

Henry G. Friesen C.C., OM, MD, FRSC, FRCP(C), FCAHS

Dr. Friesen received his MD from the University of Manitoba in 1958. He began his career in research in endocrinology with a fellowship at the New England Medical Center, Boston. His initial academic appointment was at McGill University from 1965 to 1973. From 1973 to 1992 he was professor and Head of the Department of Physiology and Professor of Medicine at the University of Manitoba. His innovative research resulted in the

discovery of the human pituitary hormone prolactin, defining its role in health and disease and for which he was awarded a Gairdner Foundation International Award in 1977. Dr. Friesen has published over 400 papers and has received many distinguished awards including the McLaughlin Medal of the Royal Society of Canada, the Koch Medal the highest award of the Endocrine Society, the Wightman award, the Starr award the CMA's highest honor, eight honorary degrees, and was inducted into the Canadian Medical Hall of Fame in 2001. He was appointed Officer in the Order of Canada in 1987 and promoted to Companion in 2002. In 2004 he was inducted into the Order of Manitoba.

Dr. Friesen served as the President of the Medical Research Council from 1991 to 2000. He was the guiding force that led the government to establish the Canadian Health Services Research Foundation. Dr. Friesen was both architect and champion for a bold new vision for Health Research in Canada that led to the creation of the Canadian Institutes of Health Research in 2000. He was the founding Chair of Genome Canada, an agency established to position Canada to be a world leader in the field of genomics, and served from 2000-2005. Dr. Friesen served (2004-09) as chair of the Board of the Gairdner Foundation which awards Canada's most distinguished international prizes in health research. He was a member of the Board of Governors of the Council of Canadian Academies 2011-2016.

Currently Dr. Friesen is a Senior Fellow and Distinguished Professor Emeritus at the University of Manitoba's Center for the Advancement of Medicine. He and his wife Joyce (MacKinnon) have two children, Mark and Janet.

NEW FELLOW INDUCTION CEREMONY

Detail in evening program

Friday, September 15, 2017

07:00-07:55 NEW FELLOW ORIENTATION; 08:00-10:30 AWARD PRESENTATIONS

Agenda

07:00-08:00

FELLOW BREAKFAST

Location: DRAWING ROOM FOYER, GROUND FLOOR

07:00-07:55

NEW FELLOW ORIENTATION LINDA RABENECK, PRESIDENT ELECT & PAUL ALLISON

Location: RENAISSANCE ROOM, MEZZANINE

08:00-08:10

WELCOME & INTRODUCTIONS DR. CAROL HERBERT, PRESIDENT

Location: DRAWING ROOM, GROUND FLOOR

08:10-08:35



Canadian Academy of Health Sciences
Académie canadienne des sciences de la santé

THE CAHS SCIENTIFIC LECTURE

Recognizing the outstanding qualities of a CAHS Fellow and his/her state of the art research in a given field of investigation.

INTRODUCTION BY CAROL HERBERT, PRESIDENT



HEROIN ON TRIAL: RETHINKING THE TREATMENT OF OPIOID ADDICTION

MARTIN T SCHECHTER OBC, MD, PhD, FRSC, FCAHS

Martin Schechter is a Professor in, and previously the Founding Director of, the School of Population and Public Health in the Faculty of Medicine at the University of British Columbia. Dr. Schechter received training in mathematics (PhD), medicine (MD) and epidemiology (MSc), and combines interests in clinical epidemiology/clinical trials and health services research with HIV and addiction research. He is a founder and former National Director

(1993-2014) of the CIHR Canadian HIV Trials Network, a national network of investigators and research facilities aimed at conducting trials of HIV therapies, preventions and vaccines. He was also a founder of the BC Centre for Excellence in HIV/AIDS and the Centre of Health Evaluation and Outcome Sciences at St. Paul's Hospital. Dr. Schechter now serves as Chief Scientific Officer of the Michael Smith Foundation for Health Research and as Co-Director of the UBC Centre for Excellence in Indigenous Health.

He is the author of more than 370 peer-reviewed publications and has been the recipient of approximately \$96 million in competitive grants as Principal Investigator including a CIHR Foundation Grant in 2016. Dr. Schechter has been awarded the Order of British Columbia (1994), a tier I Canada Research Chair in HIV/AIDS and Population Health (2001-2022), the Science Council of British Columbia Gold Medal (2002), the U.S. Norman E. Zinberg Award for Achievement in Medicine (2009); the George Elliot Award for Lifetime Contributions to Public Health in BC (2015); and Fellowship in both the Royal Society of Canada (2004) and the Canadian Academy of Health Sciences (2005). Dr. Schechter served as President of the Canadian Academy of Health Sciences from 2007 to 2009.

08:35-0840

ACADEMY DISCUSSION

08:40-09:15

A joint CAHS-University of Calgary Presentation



THE CAHS CY FRANK LECTURE

Recognizing leadership & commitment to advance academic health sciences through the development or incorporation of evidence based practices that make substantial improvements to the health care system.

THE CY FRANK LEGACY LECTURESHIP

Dr. Frank was internationally known and acclaimed for his visionary efforts to lead and champion the application of research to create solutions for patients. The lectureship showcases individuals who reflect the passion of Dr. Frank.

INTRODUCTION BY JON MEDDINGS
DEAN, CUMMINGS SCHOOL OF MEDICINE



INNOVATION IN HEALTHCARE: LINES OF SIGHT TO POLICY AND PRACTICE

THOMAS WILLIAM NOSEWORTHY CM, MD, FRCPC, FACP

Tom Noseworthy is a Professor of Health Policy and Management in the Department of Community Health Sciences and the O'Brien Institute of Public Health at the University of Calgary. He is the former Department Head (2003-2010) and inaugural Co-Director and founder of the Institute. He also served as Chair of Public Health Science at the University of Alberta (1995-2001). Trained in Internal Medicine and Critical Care, he has specialty certifications in the Royal College of Physicians and Surgeons of Canada (FRCPC), the American Colleges of Physicians (FACP), American College of Chest Physicians (FCCP) and American College of Critical Care Medicine (FCCM). He has Master degrees in Experimental Medicine (U Alberta) and Public Health (Harvard). His research interests include critical care, access to services, health technology assessment and health information. He has published 150+ papers and book chapters and presented 500+ presentations.

Dr. Noseworthy has extensive experience in health care management, serving as Vice President Medicine and later as Chief Executive Officer of the Royal Alexandra Hospital (1989 – 1995). He joined Alberta Health Services as an embedded researcher in 2011 and served as Associate Chief Medical Officer, Strategic Clinical Networks until January 2015. As interim assignments in 2012/13 and 2013/2014, he served as Zone Medical Director; Vice President; and Chief Health Operations Officer, North Sector & Edmonton Zone, respectively. His contributions to health policy have been formally recognized at organizational, regional, provincial, national and international levels and he was ultimately appointed to the Order of Canada in 2007 for contributions to health policy and Medicare. He received the Diamond Jubilee Medal in 2012.

ACADEMY DISCUSSION

09:15-09:20



THE PAUL ARMSTRONG LECTURE

Recognizing leadership & commitment to advance academic health sciences through academic service and innovation at local, national and international levels and achievements that are truly extraordinary.

INTRODUCTION BY CAROL HERBERT, PRESIDENT



THE PROMISE AND PERILS OF CONTEMPORARY THERAPEUTICS

JEAN GRAY CM, MD, FCAHS

Jean Gray is Professor Emeritus, Medical Education, Medicine, Pharmacology at Dalhousie University. She graduated from the University of Alberta in Chemistry (1963) and Medicine (1967). She joined the Faculty of Medicine at Dalhousie and was the founding Head of the Dalhousie Division of General Medicine, Associate Dean of Postgraduate Medical Education (1988 to 96) and Associate Dean of

Continuing Medical Education (1996 to 2002).

Dr. Gray has served as President of the Canadian Society of Clinical Pharmacology; the Canadian Society for Clinical Investigation; the American Society for Clinical Pharmacology and Therapeutics; the Canadian Association of Medical Education; the Canadian Institute of Academic Medicine; and as Chair of the Canadian Cochrane Collaboration Advisory Board, the CIHR Institute of Gender and Health Advisory Board, the NS Health Research Foundation Board, the Board of the Canadian Medical Hall of Fame, the Canadian Academy of Health Sciences Standing Committee on Assessments, and the CMAJ Journal Oversight Committee. She is a member of several other national and international committees and boards, including the Science Advisory Committee of the Council of Canadian Academies.

Dr. Gray belongs to the Fellowship on the Canadian Academy of Health Sciences and the Order of Canada. She also has two honorary doctorates. She and her husband, Michael, have two daughters, Jennifer (a lawyer) and Meghan (an astrophysicist).

09:55-10:00

ACADEMY DISCUSSION

10:00-10:30

BREAK

10:30-13:00

ANNUAL GENERAL MEETING

The Annual General Meeting is a closed meeting for CAHS Fellows only. The agenda package will be circulated at the meeting.

Hold the Date!

Thursday & Friday, September 13 & 14, 2018
Marriott Pinnacle Downtown Hotel, **Vancouver**

Thursday & Friday, September 19 & 20, 2019
Fairmont Château Laurier, **Ottawa**

WE ARE MOST GRATEFUL TO OUR SPONSORS OF THIS YEAR'S EVENT

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The mission of the Public Health Agency of Canada is to promote and protect the health of Canadians through leadership, partnership, innovation and action in public health. Its role is to:

- *Promote health;*
- *Prevent and control chronic diseases and injuries;*
- *Prevent and control infectious diseases;*
- *Prepare for and respond to public health emergencies;*
- *Serve as a central point for sharing Canada's expertise with the rest of the world;*
- *Apply international research and development to Canada's public health programs; and*
- *Strengthen intergovernmental collaboration on public health and facilitate national approaches to public health policy and planning.*

<http://www.phac-aspc.gc.ca>

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The CCA is an independent, not-for-profit organization supporting independent, authoritative, and evidence-based expert assessments that inform public policy development in Canada. Assessments are conducted by multidisciplinary panels of experts from across Canada and abroad. They directly address the question and sub-questions referred to them by sponsors. Assessments may also consider emerging issues, gaps in knowledge, Canadian strengths, and international trends and practices. Assessments provide government decision-makers, academia and stakeholders with the high-quality information required to develop informed and innovative public policy. The Council's work encompasses a broad definition of science, incorporating the natural, social and health sciences as well as engineering and the humanities.

<http://www.scienceadvice.ca>



CADTH is an independent, not-for-profit organization responsible for providing Canada's health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs and medical devices in our health care system. Learn why we are a trusted pan-Canadian source of credible health care evidence. CADTH delivers evidence, analysis, advice, and recommendations to health care decision-makers so that they can make informed decisions. Our approach is customer-focused and our products and services are designed to meet a broad spectrum of needs. Take a look and see if one of our products or services is right for you.

<https://www.cadth.ca/>



The mission of the Fonds de recherche du Québec – Santé (FRQS) is to:

- Promote/provide financial support for all areas of research in the field of health, including basic, clinical and epidemiological research, research in the field of public health and research in the field of health services;
- Promote/provide financial support for the dissemination of scientific knowledge in fields of health research;
- Promote/provide financial support for the training of researchers through merit scholarships for graduate and postgraduate students and persons who engage in postdoctoral research and through professional development scholarships for persons who wish to re-enter the research community;
- Create any necessary partnership, in particular with universities, colleges and health care institutions, and the government departments and public bodies concerned

<http://www.frq.gouv.qc.ca>

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The Canadian Institutes of Health Research (CIHR) is the Government of Canada's health research investment agency. It is an independent agency accountable to Parliament through the Minister of Health. Its mission is to create new scientific knowledge and enable its translation into improved health, more effective health services and products, and a strengthened Canadian health care system. Composed of 13 Institutes, CIHR provides leadership and support to health researchers and trainees across Canada. CIHR is part of the Health Portfolio which supports the Minister of Health in maintaining and improving the health of Canadians. For more information on the Health Portfolio, visit Health Canada. <http://www.cihr-irsc.gc.ca>



The University of Calgary Faculty of Veterinary Medicine (UCVM) was established in 2005 to meet Alberta's need for highly-skilled veterinary graduates supporting rural Alberta, production animal and equine industries, animal and human health research, and public health. UCVM is dedicated to meeting the animal and public health needs of Alberta through its education, research and outreach programs. UCVM offers the [Doctor of Veterinary Medicine \(DVM\) program](#), supervision leading to [graduate degrees](#) (MSc, PhD) in Veterinary Medical Sciences, and advanced clinical training programs ([internships](#), [fellowships](#), and residencies). UCVM is also committed to professional development programs for the veterinary community. <https://vet.ucalgary.ca/>



The CSM exists to better the human condition through improved health care: to create the future of health. Our school, like most medical faculties around the world, has the tripartite mandate to engage in research, education and service. In our case the execution of this mandate takes place in Calgary, and increasingly across the province and globally as well. We excel at it through our core strength and resource: people—our faculty, staff and students—who each day engage in the pursuit of excellence towards a common vision. It is through the individual and collective success of our people that the CSM will continue to grow as a premier academic health sciences centre. Our product is health, our strength is people. <http://cumming.ucalgary.ca/>

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The National Farmed Animal Health and Welfare Council (NFAHW Council) was first envisioned in the [National Farmed Animal Health and Welfare Strategy](#) which was completed in 2009 by a working group comprised of federal and provincial government and industry representatives with an interest in animal agriculture in Canada. The NFAHW Council was formed as an advisory council by the Federal-Provincial-Territorial Regulatory Assistant Deputy Ministers of Agriculture Committee (FPT Reg ADMs) but reports to all stakeholders. The NFAHW Council is funded jointly by those federal and provincial government agencies/departments and industry organizations which have committed to the NFAHW Council.

<http://www.ahwcouncil.ca/>

Founded in 1829, the McGill Faculty of Medicine was the first faculty established at the University and the first medical faculty in Canada. Today, McGill is Canada's No. 1 medical-doctoral university and one of its largest and most prolific sites for health science research. It enjoys a long and storied history preparing generations of students to excel as health care practitioners, teachers, scholars and scientists. The McGill name is known and respected internationally. The McGill Faculty of Medicine is a centre of interdisciplinary collaboration in the training of not only doctors, but also nurses, physical therapists, occupational therapists, speech therapists and scientists. Innovation in education is a Faculty cornerstone, as so is the "Oslerian" tradition, which emphasizes both the science and the art of healing.

<https://www.mcgill.ca/medicine/faculty-medicine>

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Ad Hoc Committee on Antimicrobial Stewardship

Antimicrobial Stewardship in Canadian Agriculture and Veterinary Medicine

John Prescott

Jean Szkotnicki

Co-Chairs

• prescott@uoguelph.ca

• jszk@cabi-icsa.ca

• Department of Pathobiology, University of Guelph Guelph, Ontario N1G 2W1

• Canadian Animal Health Institute, 160 Research Lane, Suite 102, Guelph, Ontario N1G 5B2

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CNA is a powerful, unified voice for Canada's registered nurses. We represent registered nurses from 11 provincial and territorial nursing associations and colleges, independent registered nurse members from Ontario and Quebec and retired registered nurses from across the country. We advance the practice and profession of nursing to improve health outcomes and strengthen Canada's publicly funded, not-for-profit health system. The CNA speaks for Canadian registered nurses and represents Canadian nursing to other organizations and to governments, nationally and internationally. We give registered nurses a strong national association through which they can support each other and speak with one voice.

<http://www.cna-aiic.ca/en>



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The Michael Smith Foundation for Health Research (MSFHR) empowers British Columbia's (BC) best and brightest health researchers to pursue world-class innovation and stretch the bounds of what health research can achieve. Since its inception, MSFHR has received over \$392 million from the provincial government to bolster BC's capacity to develop new treatments and cures; help BC's health system be more effective and responsive to emerging health threats; and keep BC's health research sector globally competitive. The Foundation helps BC's health research community discover solutions to our greatest health challenges; connect knowledge and action on provincial priorities; and engage partners to improve the research enterprise. Learn more at www.msfhr.org.

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Public Health Ontario (PHO) keeps Ontarians safe and healthy. With our partners in government, public health and health care, we prevent illness and improve health. We provide the scientific evidence and expert guidance that shapes policies and practices for a healthier Ontario. PHO has locations across Ontario, including 11 laboratory sites. We monitor, prepare for, detect, and respond to infectious disease outbreaks and environmental incidents. Our experts guide and support health professionals with evidence and case studies on topics like immunization, environmental and occupational health and our research informs health policy, transforms clinical/public health practice, and advances laboratory science.

<http://www.publichealthontario.ca>



The mandate of Research Manitoba is to promote, support and coordinate the funding of, research in the health, natural and social sciences, engineering and the humanities in Manitoba through a number of grants and awards programs from moneys received from the Province. Research Manitoba brings together the Manitoba Health Research Council (MHRC), the Manitoba Research and Innovation Fund, the Health Research Initiative, and the Manitoba Centres of Excellence Fund. Health research funding focuses on the support of new and mid-career investigators through the New Investigator Operating Grants and Mid-Career Operating Grants. In addition, salary support for trainees is provided through Clinical Fellowships, Co-ordinated Postdoctoral Fellowships and Co-ordinated Graduate Studentships.

<http://researchmanitoba.ca/>



The Saskatchewan Health Research Foundation (SHRF) is the provincial agency responsible for funding, facilitating and promoting innovative, collaborative health research in Saskatchewan. SHRF works as a catalyst, driver, and leader to: build and broaden the province's research capacity; expedite the production and sharing of knowledge; increase stakeholder engagement; generate new and diverse funding partnerships; and measure the impact of health research on our Saskatchewan communities.

<http://shrf.ca/>



Pharmacy and Nutrition are dynamic, challenging disciplines, committed to the promotion of health and the treatment of disease. Our programs provide students with the essential knowledge and skills to be professional leaders and committed to high quality patient care. The College has immense talent, outstanding students, a great tradition and a world class reputation for research and practice innovation. Our College is well respected and known as the epicenter for pharmacy practice innovation and research excellence within Canada. It is one of the oldest pharmacy/nutrition schools in Canada and many of the graduates over the past 100 years have gone on to be pharmacy-practice innovators and nutrition leaders across the country. Faculty within our College are doing important research in diverse areas that are part of the university's signature programs and have societal impact on enhancing the health and well being of the citizens of not only Saskatchewan but of Canada.

<http://pharmacy-nutrition.usask.ca/>



The Schulich School of Medicine & Dentistry at Western University has a long tradition of excellence, beginning with founding of the medical school in 1881 and continuing with the formation of the dental school in 1964. Our reputation has been built by dedicated teachers, breakthrough discoveries, our commitment to social responsibility and our affinity for strategic partnerships. Today, Schulich Medicine & Dentistry is a leading Canadian centre of outstanding education and research shaping health care for the next generation.

<http://www.schulich.uwo.ca/index.html>



Established by Health Canada in 2003, the Canadian Patient Safety Institute (CPSI) works with governments, health organizations, leaders, and healthcare providers to inspire extraordinary improvement in patient safety and quality. We develop evidence-informed products, provide excellent stewardship of resources, ensure clear and open communication, deliver measurable results, celebrate the successes of our partners, nurture successful partnerships, and are passionate about safe healthcare for all Canadians. We:

- Help your patient safety and quality initiatives grow
- Work with your agenda to coordinate efforts
- Listen to the system, catalyze change, launch new ideas, and invest in promising developments
- Spotlight patient safety issues

<http://www.patientsafetyinstitute.ca>



The National Alliance of Provincial
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NAPHRO

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Research
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