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The Institute of Infection and Immunity provides national leadership and creates programs that promote innovative research aimed at reducing the global burden of infectious diseases and disorders of the immune system.

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The Institute has been busy on a number of fronts. We recently held our last Institute Advisory Board (IAB) meeting in its initial structure (see p. 2). I wish to thank all the members who have served IIB as part of the IAB. Through your volunteer work you have made a huge difference. Thank you so much. We are now looking forward to working with the new IAB structure.

Throughout the years, the Institute has responded to various threats: SARS, pandemic influenza, Ebola virus, and now the Zika virus (see p. 5). The field of antimicrobial resistance is receiving much political and international attention. With a new budget, we are able to launch a point-of-care diagnostics for human health initiative (see p. 2) and are working on building a workshop for priorities on antibiotic stewardship research.

Institute staff have participated in or helped to orga-

nize a number of meetings relating to Lyme disease (see p. 3), immunization and vaccines (see p. 3 for CIRN, p. 5 for HIV and p. 8 CIC), and are working on a new initiative related to human immunology.

Finally, we highlight the success of some of our investigators on various recent calls (see p. 8-9). Congratulations to all!

The IIB team wishes you a productive and also pleasant summer.

Marc Ouellette

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The 46th Institute of Infection and Immunity Advisory Board Meeting

The Institute had its spring Institute Advisory Board (IAB) meeting in Québec City, Québec, on April 12th and 13th. The board and staff had the opportunity to meet the research community of Université Laval. This was the last IAB meeting with the original structure.

The next III IAB will be held under the new IAB structure.

To learn more about its new structure and the five new board chairs, please click [here](#).



IAB members, invited researchers and III Scientific Director at CHU de Québec research Centre. From left to right: Roy Duncan, Jonathan Angel, David Burt, Bruno Gaillet (invited researcher), Eric Boilard (invited researcher), Ève Dubé (invited researcher), Brian Ward, Mohamed Karmali, Marc Ouellette (III scientific director), Christian Jobin, Aïda Fernandes, Megan Levings, Anthony Jevnikar (chair, III IAB).

Antimicrobial Resistance: Point of Care Diagnostics in Human Health

In an effort to respond to the global priority of AMR as well as to address existing knowledge and funding gaps, CIHR has launched a funding opportunity on point of care diagnostics in human health. The Expression of Interest deadline was May 17, 2016. The grantees will participate, along with industry representatives, in a networking workshop to take place in Ottawa on June 21-22, in an effort to foster collaboration and support the development of full applications. The full application process will involve 2 phases at a later date and will require applicants to have matching (1:1) partner funding (cash or cash-equivalent) in order for their application to be eligible.

For more information, please visit the funding opportunity page on [ResearchNet](#).



Advanced Course on Antibiotics

This [course](#) is organized by Fondation Mérieux in partnership with Institut Pasteur, and will focus on the determination of antibacterial activity, detection of potential resistance mechanisms, antibiotic discovery, chemical optimization and usage that maximizes their utility and minimizes the development of resistance

The new [application deadline](#) is June 25th, 2016

For more information on the course content and how to apply, please contact: [Valentina Picot](#) at Fondation Mérieux.

The CIHR Institute of Infection and Immunity will help defray part of the transportation cost and tuition fee for a maximum of \$3,500 CAD per selected Canadian participants from the academic sector, for up to three

participants. The Canadian applicants need to provide information regarding the financial source to cover the total cost for tuition and travel.

For more information regarding Canadian applicants, please contact [Serge Desnoyers](#), Assistant Director, CIHR Institute of Infection and Immunity.

Conference to Develop a Federal Framework on Lyme Disease

On May 15-17, the Government of Canada held a conference, as mandated by the [Federal Framework on Lyme Disease Act](#), to help inform the development of a framework that will help prevent and reduce Lyme disease-related health risks for Canadians. Open to the public, the conference featured a public forum where people affected by Lyme disease shared their experiences with Lyme Disease from the patient, family and friend, and health care professional perspectives. The Honourable Jane Philpott, Minister of Health, opened the conference, along with the tri-Chairs, Gregory Taylor (Public Health Agency of Canada), Jim Wilson (Canadian Lyme Disease Foundation), and Daniel Gregson

(Association of Medical Microbiology and Infectious Disease Canada). The main plenary addressed prevention, identification, treatment and management of Lyme Disease while the breakout sessions had the objective of discussing topics related to the three areas of the Act such as surveillance, guidelines and best practices, as well as education and awareness. Participants included patients and patient advocacy groups, the medical community, researchers, federal government representatives, and other stakeholders.

For more information on the Federal Framework on Lyme Disease, visit the [Government of Canada website on Lyme Disease](#).

Canadian Immunization Research Network Annual General Meeting

The Canadian Immunization Research Network (CIRN) Annual Meeting took place in Toronto, May 17-19, 2016. Over 120 participants were in attendance, many of whom presented on current research being undertaken by the network. Participants included researchers and trainees, and also federal and provincial public health agencies.

The aims of the meeting were to :

- Present research outcomes to date for each sub-network.

- Offer trainees and students a forum for presenting their research.
- Conduct Knowledge Translation activities on-site and through the participation of stakeholders.
- Facilitate team-building within the sub-networks and network as a whole.

Michelle Peel, Manager, Major Initiatives, Isabelle Létourneau, Associate, Strategic Initiatives and Alison Bourgon, Manager Knowledge Translation Strategies of CIHR participated to the meeting.

Canadian Association for HIV Research 2016 Conference

In Winnipeg, May 12-15, the Canadian Association for HIV Research (CAHR) held their annual conference. III was given the opportunity to present at the New HIV Researcher Workshop along with other CIHR staff. The presentation called “*CIHR and III 101*” was appreciated by participants. A booth was also set up at the conference which gave the community the opportunity to access information on the HIV/AIDS Initiative and other related topics.

Élisabeth Pagé and Marc Ouellette from III, along with Jennifer Ralph and Michelle Peel participated in that conference.



Michelle Peel, manager, major initiatives, and Élisabeth Pagé, associate, strategic initiatives at CIHR booth at the CAHR conference.

CIHR HIV Implementation Science Component 1 Grantees Workshop

During the CAHR conference, 24 participants had the opportunity to participate in a workshop organized by the CIHR HIV/AIDS Research Initiative and its Federal Initiative partners (Correctional Service Canada, Health Canada’s First Nations and Inuit Health Branch, and the Public Health Agency of Canada) on [HIV Implementation Science Component 1](#). The grantees of the funding opportunity had the chance to exchange with knowledge users.

The goals of the workshop included:

1. Providing an opportunity for participants to present their project plans to other grantees;
2. Interacting with other project teams and facilitating synergies and potential new collaborations; and
3. Providing CIHR with input on a Component 2 funding opportunity.

Marc Ouellette, Scientific Director, Élisabeth Pagé, Associate, Strategic Initiatives and Michelle Peel, Manager, Major Initiatives and Jennifer Ralph, Initiative associate, participated in the meeting.



In discussion, Joanne Otis, Renée Masching, Darrell Tan and Marc Ouellette.

The Secretariat on Responsible Conduct of Research (SRCR): Education

The SRCR has posted two modules to the TCPS 2 tutorial, Course on Research Ethics (CORE): Multi-Jurisdictional Research, and Research Involving the First Nations, Inuit and Métis Peoples of Canada. The two new modules will be available in PDF format until their integration into the revised CORE tutorial at a later date. [Read more](#)

CIHR hosted a workshop on HIV vaccine research

CIHR hosted a one-day HIV Vaccine workshop in Ottawa on March 18, 2016 which included key HIV researchers and stakeholders. The goal of the workshop was to assist CIHR by identifying priority areas for future potential investments in HIV vaccine research in Canada. Marc Ouellette and Elisabeth Pagé from III as well as CIHR staff participated in that workshop.



Call for Nominations - CIHR HIV/AIDS Research Advisory Committee (2016)

CIHR is seeking qualified individuals to join the **CIHR HIV/AIDS Research Advisory Committee (CHARAC)**.

The CIHR [Institute of Infection and Immunity](#) provides a scientific leadership for the CIHR HIV/AIDS Research Initiative, which is responsible for the management and oversight of the research component of the Government of Canada initiative in HIV/AIDS, namely the [Federal Initiative to Address HIV/AIDS in Canada](#).

To learn more on the composition of CCRVS, the role of its members, and the nomination process, please click [here](#).

Deadline for receipt of nominations is Friday, July 29th, 2016.

Nominations, or any questions, should be sent to: HIVAIDS-VIHSIDA@cihr-irsc.gc.ca

Team Grant: Canada-Latin America-Caribbean Zika Virus Program

CIHR and IDRC, working with parameters set out by members of the Global Research Collaboration for Infectious Disease Preparedness ([GloPID-R](#)), are planning to invest \$3 million CAD in areas where new knowledge on Zika virus will help develop diagnostics for Zika virus infection, understand the pathology caused by the virus, and ultimately prevent its transmission and morbidity.

Application Deadline: July 12, 2016

[Find out more](#)

For all inquiries please contact support@cihr-irsc.gc.ca.

Linkage tool

As the funding opportunity [Team Grant : Canada-Latin America-Caribbean Zika Virus Program](#) will support teams of researchers with members from two different continents, CIHR and IDRC are providing a web-based tool in order to help link researchers with similar interest.

If you are interested in using this tool to form collaborative teams for your Zika virus Program application, please complete the [survey](#), and your contact information, research area of interest (pathogenesis, diagnostics, vector studies), and expertise will be posted on a [public CIHR web page](#).

The CIHR web page with the list of potential collaborators will be updated regularly.

Funding opportunities

Of particular interest to the III community

[Catalyst Grant : HIV/AIDS Community-Based Research \(Summer 2016 Competition\)](#)

Application Deadline: 2016-06-28
Anticipated Notice of Decision: 2016-10-20
Funding Start Date: 2016-10-01

[Team Grant: Canada-Latin America-Caribbean Zika Virus Program](#)

Application Deadline: 2016-07-12
Anticipated Notice of Decision: 2016-09-30
Funding Start Date: 2016-10-01

[Travel Awards - Institute Community Support \(Summer 2016\)](#)

Includes support from CIHR HIV/AIDS Research Initiative
Application Deadline: 2016-07-26
Anticipated Notice of Decision: 2016-09-30
Funding Start Date: 2016-10-01

[Personalized Medicine in Inflammation Network](#)

For those with successful LOI
Application Deadline: 2016-10-18
Anticipated Notice of Decision: 2017-01-31
Funding Start Date: 2017-02-01

[Team Grant: Environments and Health: Intersectoral Prevention Research](#)

For those with successful LOI
Application Deadline: 2016-07-13
Anticipated Notice of Decision: 2016-11-30
Funding Start Date: 2016-12-01

[Team Grant: Joint Programming Initiative on Antimicrobial Resistance \(JPIAMR\) \(2016\)](#)

For those with successful LOI
Application Deadline: 2016-07-04
Anticipated Notice of Decision: 2016-10-14
Funding Start Date: 2017-01-01

Of general interest to the III community:

[Catalyst Grant : Catalyzing Innovation in Preterm Birth Research](#)

Registration Deadline: 2016-06-21
Application Deadline: 2016-08-02
Anticipated Notice of Decision: 2016-11-15
Funding Start Date: 2016-11-01

[Pan-Canadian SPOR Network in Primary & Integrated Health Care Innovations – Knowledge Synthesis Grants](#)

Application Deadline: 2016-07-26
Anticipated Notice of Decision: 2016-12-16
Funding Start Date: 2016-12-01

[Pan-Canadian SPOR Network in PIHCI – Provincial/Territorial Comparative Program and Policy Analysis Grants](#)

Application Deadline: 2016-08-09
Anticipated Notice of Decision: 2016-12-16
Funding Start Date: 2016-12-01

[Team Grant : Preterm Birth Network](#)

Application Deadline: 2016-09-06
Anticipated Notice of Decision: 2016-12-08
Funding Start Date: 2016-11-01

[Fellowship: Banting Postdoctoral Fellowships Program \(2016-2017\)](#)

Application Deadline: 2016-09-21
Anticipated Notice of Decision: 2017-02-02
Funding Start Date: 2017-04-01

[Catalyst Grant : SPOR Innovative Clinical Trials](#)

Application Deadline: 2016-09-27
Anticipated Notice of Decision: 2017-03-31
Funding Start Date: 2017-03-01

[Clinician-Scientist Salary Award : 2016-2017](#)

Application Deadline: 2016-10-04
Anticipated Notice of Decision: 2017-02-28
Funding Start Date: 2017-04-01

[Canada Graduate Scholarships – Michael Smith Foreign Study Supplement \(2016-2017\)](#)

Application Deadline: 2016-10-11
Anticipated Notice of Decision: 2016-12-09
Funding Start Date: 2016-10-01

[Operating Grant : SPOR Innovative Clinical Trial Multi-Year Grant](#)

Application Deadline: 2016-10-25
Anticipated Notice of Decision: 2017-03-31
Funding Start Date: 2017-03-01

[Chair: GlaxoSmithKline Partnered 2015-2016](#)

Application Deadline: 2017-04-28
Funding Start Date: 2017-07-01

[Team Grant: Biomarkers for Nutrition and Health \(BioNH\) – 2016](#)

For those with successful LOI
Application Deadline: 2016-07-15
Anticipated Notice of Decision: 2016-10-03
Funding Start Date: 2017-01-01

[Team Grant: Healthy Life Trajectories Initiative \(HeLTI\) – South-Africa](#)

For those with successful LOI
Application Deadline: 2016-09-15
Anticipated Notice of Decision: 2016-10-14
Funding Start Date: 2016-11-01

[Training Grant : Indigenous Mentorship Network Program](#)

For those with successful LOI
 Application Deadline: 2016-10-03
 Anticipated Notice of Decision: 2017-01-31
 Funding Start Date: 2017-01-01

[Team Grant: Pathways Implementation Research Team – Component 2 \(2016\)](#)

For those with successful LOI
 Application Deadline: 2016-10-04
 Anticipated Notice of Decision: 2017-02-15
 Funding Start Date: 2017-01-01

Meetings of interest

[21st International AIDS Conference](#) (AIDS 2016), July 18-22, 2016, Durban, South Africa

[Canadian Society of Transplantation - Annual Scientific Meeting 2016](#), October 13 to 16, 2016, Quebec City, QC

[Canadian National Transplant Research Program Annual Scientific Meeting](#), October 13 to 16, 2016, Quebec City, QC

[12th Canadian Immunization Conference](#) (CIC2016), December 6-8, 2016, Ottawa, ON

CIHR Gold Leaf Prizes

CIHR announced its new suite of prizes, the CIHR Gold Leaf Prizes, which are among the highest honours that can be bestowed on an individual or team for excellence in health research and its translation into benefits for Canadians. These prizes cover achievements across all pillars of research (biomedical, clinical, health services and policy, and population and public health) and will be awarded every two years to a researcher in each of the following categories: Impact, Discovery, Outstanding Achievements by an Early Career Investigator and Transformation. Nominations close September 6, 2016. [Read more](#)

CIHR Launches the *SPOR Innovative Clinical Trials Initiative*

As part of its commitment to support clinical research and strengthening the environment for clinical trials in Canada, CIHR is launching a new initiative to support the conduct of innovative trials in Canada under Canada's Strategy for Patient-Oriented Research (SPOR). The initiative will fund researchers to develop and/or adopt innovative methods for carrying clinical trials as alternatives to traditional randomized controlled trials. Methods for conducting innovative clinical trials offer the possibility of obtaining reliable results at lower cost than can be achieved by standard randomized controlled trials. They represent an opportunity to lever one of Canada's main health resources including data collected via a universally accessible health care system.

The first funding opportunities under this initiative will provide funding for

- [catalyst grants](#)
- [multi-year grants](#), and
- mentorship Chairs (*anticipated launch date late July 2016*).

For more information about the initiative, please consult the [Innovative Clinical Trials Initiative](#) page on the CIHR website. For all inquiries about the funding opportunities, please contact spor-srap@cihr-irsc.gc.ca.

2016 Canadian Immunization Conference: Call for Submissions

The Conference Organizing Committee is now accepting [submissions](#) for presentation at CIC 2016. Abstract submissions may be in the form of an [Oral or Poster presentation](#). The deadline for abstract submissions is **July 15, 2016**. New for CIC 2016 is the opportunity to submit an application for a [90-minute Workshop session](#) that aims to enhance the skills of conference participants through a practical learning experience. The deadline for workshop submissions is **June 28, 2016**.



Congratulations to our Funding Recipients

The Institute of Infection and Immunity would like to congratulate the funding recipients of IIR funding.

[Doctoral Award Priority Announcement Fall 2015](#)

John A. Alexander, University of British Columbia, *Trouncing the superbug: the biophysical characterisation of proteins involved in methicillin resistant Staphylococcus aureus (MRSA) antibiotic resistance.*

Dessi Loukov, McMaster University, *The impact of chronic inflammation on susceptibility to Streptococcus pneumoniae.*

Candice S. Quin, University of British Columbia, *The Effects of Omega-3 Polyunsaturated Fatty Acids on the Infant Microbiome and Immunity.*

[Catalyst Grant : HIV/AIDS Community-Based Research \(2016\)](#)

Dan B. Allman, University of Toronto, *Sex Workers' Perspectives on Policy and Practice for HIV Pre-Exposure Prophylaxis (PrEP) in Canada: A Community-based Pilot Study.*

Anne Guichard, Université Laval, *Place des TIC dans la prévention et la réduction des méfaits associés aux nouvelles consommations de drogues parmi les jeunes : une étude exploratoire.*

Mona R. Loutfy, Women's College Hospital, *Canadian HIV Women's Sexual and Reproductive Health Cohort Study: Peer Research Associate (PRA)-led Knowledge Translation and Exchange (KTE) Strategy.*

Matthew S. Numer, Dalhousie University, *Grinding Against HIV Prevention Discourse: A critical exploration of risk among users of mobile gay cruising apps.*

Brent W. Oliver, Mount Royal University, *Gay Men and Other Men who Have Sex with Men in Alberta: Establishing a Community Based Research Agenda to Inform Provincial HIV Prevention Initiatives.*

Beth S. Rachlis, Ontario HIV Treatment Network, *Developing a community-directed research agenda to examine the impact of patchwork drug coverage for HIV-infected populations in Ontario, Canada.*

Darrell H. Tan, St. Michael's Hospital, *Learning from the experiences of Canada's first wave of PrEP users: A qualitative investigation of Canadian gay men's experiences using new HIV prevention technology.*

Jennifer E. Jones, Pacific AIDS Network, *Making It Work: Supporting Community Approaches to Integrated Service Models for People Living with HIV, HCV, Ill Mental Health, and/or Problematic Substance Use.*

Renée Masching, Canadian Aboriginal AIDS Network, *Moving forward with an Aboriginal HIV and Aging Research Plan.*

[Operating Grant: HIV/AIDS Community-Based Research \(2015-2016\)](#)

David Brennan, University of Toronto, *Exploring the Sex- and Health-Seeking Practices within Evolving Online Environments of Gay, Bisexual, Two-Spirit and other Men Who Have Sex with Men in Ontario: The Role of Online Outreach for Prevention and Care.*

Josephine B. Etowa, University of Ottawa, *Infant Feeding among Black women living with HIV: A Community Based Participatory Research (CBPR).*

Michael-John S. Milloy, University of British Columbia, *Exploring the Impact of Single Room Accommodations Housing on HIV Prevention & Treatment Among People who use Drugs.*

Carol J. Strike, University of Toronto, *Day Health Programs for complex care delivery: Using implementation science and participatory methods to evaluate success and ethical care delivery for people living with HIV.*

Anita C. Benoit, Women's College Hospital, *Reducing stress and improving mental health and wellness among Indigenous women with socio-economic insecurities, living with and without HIV.*

Carmen H. Logie, University of Toronto, *Understanding syndemics and HIV/STI vulnerability among Northern Indigenous youth in the Northwest Territories.*

[HIV Implementation Science - Component 1](#)

Catherine A. Worthington, University of Victoria, *Development of a Rural Model for Integrated Shared Care in First Nation and Métis Communities (DRUM-ISCFNMC).*

Paula Braitstein, University of Toronto, *Identifying, adapting and piloting interventions to engage street-connected children and youth in the HIV prevention-care continuum in a resource-constrained setting.*

Trevor A. Hart, Ryerson University, *Gay Positive Sex: Adaptation of an HIV prevention counselling program for HIV-positive and HIV-negative gay and bisexual men.*

Mark W. Hull, University of British Columbia, *Setting the stage for a targeted pre-exposure prophylaxis program for HIV prevention amongst high risk MSM populations in Vancouver, Canada: a feasibility study.*

Deborah V. Kelly, Memorial University of Newfoundland, *A New APPROACH to HIV Testing: Adaptation of POCT for Pharmacies to Reduce risk and Optimize Access to Care in HIV.*

Lynne E. Leonard, University of Ottawa, *Increasing the Offer, Shifting the Offer: Adapting, Evaluating and Recommending Strategies to Engage with Persons Unaware of their Positive HIV Status.*

Joanne Otis, Université du Québec à Montréal, *Adaptation of a structural intervention to improve access to combination HIV prevention for men who have sex with men in four Canadian cities.*

Jean A. Shoveller, University of British Columbia, *Interventions to Address HIV and other STBBI Among Young MSM.*

Darrell H. Tan, St. Michael's Hospital, *Decentralizing the delivery of HIV pre-exposure prophylaxis (PrEP) through family physicians and sexual health clinic nurses.*

[Planning and Dissemination Grants– Institute/Initiative Community Support \(Summer 2015 Competition\)](#)

Liviana Calzavara, University of Toronto, *Enhancing adherence to treatment for multi and extensively drug-resistant tuberculosis in South Africa through a locally informed, patient centred model of care.*

Canadian Society For Immunology, *Overcoming exhaustion in viral infection and cancer.*

Samuel David, Research Institute of the McGill University Health Centre, *11th Annual Neuroinflammation Symposium, Montreal.*

Steven J. Hoffman, University of Ottawa, *Drugs for Superbugs: Fighting Antibiotic Resistance in Canada.*

France Légaré, Université Laval, *Favoriser la participation des individus aux décisions en santé: dissémination des résultats de recherche en décision partagée dans le réseau des bibliothèques.*

John F. Rudan, Queen's University, *Characterizing Prosthetic Joint Infections using State of the Art Mass Spectrometry.*

Selena M. Sagan, McGill University, *5th Canadian Symposium on Hepatitis C Virus: "We're not done yet: Remaining Challenges in HCV".*

[Planning and Dissemination Grants – Institute/Initiative Community Support \(Winter 2016 Competition\)](#)

Nathalie Grandvaux, Centre hospitalier de l'Université de Montréal (CHUM), *First workshop of the Canadian Society for Virology.*

Seyed M. Moghadas, York University, *Knowledge Dissemination: from Communities of Practice to Communities of Health.*

William W. Mohn, University of British Columbia, *Human microbiome program at the 16th International Symposium on Microbial Ecology.*

Kieran M. Moore, Queen's University, *Building research capacity to reduce the burden of Lyme.*

Sheela Ramanathan, Université de Sherbrooke, *CIACCO-2017 (6th Annual symposium on Cytokines in Inflammation, Ageing, CanCer and Obesity).*