



ICAV

International Consortium  
on Anti-Virals



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## Third Symposium of the International Consortium on Anti-Virals

## Troisième Symposium du Consortium International sur les Thérapies Anti-virales

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**TRENT UNIVERSITY  
PETERBOROUGH, ONTARIO, CANADA**

Welcoming Reception September 22<sup>nd</sup>, 2005  
*Public Symposium: September 23<sup>rd</sup>, 2005*  
*ICAV Workshops: September 24<sup>th</sup> & 25<sup>th</sup>, 2005*

**Agenda / Programme**

Thursday, September 22<sup>nd</sup> 2005

Please join us as we welcome our delegates and other guests to Peterborough, Ontario. The Reception will be held from 5:00 pm – 9:00 pm, Thursday, September 22<sup>nd</sup> at the Canadian Canoe Museum, a unique national heritage centre.

Friday, September 23<sup>rd</sup> 2005

- 09:00 – 09:30 Chair: Bonnie Patterson, President, Trent University, Ontario, Canada
- Welcoming Address: Roberta Bondar, Chancellor, Trent University, Ontario, Canada
- 09:30 – 12:30 **Pandemic Influenza - Threat and Preparedness**  
Chair: Noël Tordo, Chef d'Unité, Institut Pasteur, Paris, France
- Keynote Speakers:**
- 09:30 – 10:30 Albert Osterhaus, Department of Virology, Erasmus University, Rotterdam, The Netherlands: **“Avian influenza: a threat to animal and human health”**
- 10:30 – 11:30 Frank Plummer, Scientific Director-General, National Microbiology Laboratory, Public Health Agency of Canada, Manitoba, Canada
- 11:30 – 12:00 **Coffee Break & Poster Viewing and Press Conference**
- 12:00 – 12:30 Daniel A. Sharp, President, Royal Institution World Science Assembly (RiSci) Pandemic Preparedness Project, Stamford, CT, USA: **“RiSci's pandemic preparedness project”**
- 12:30 – 15:00 **The Economics of Global Viral Threats**  
Chair: Thomas F. Phillips, University College of the Cayman Islands, Cayman Islands
- 12:30 – 13:00 Iain Gillespie, Director for Science, Technology & Industry, Organization for Economic Co-operation and Development OECD, France: **“The challenge to growth: shouldering the burden of global viral threats”**
- 13:00 – 13:30 Thomas F. Phillips, University College of the Cayman Islands, Cayman Islands: **“The economic impacts of a viral pandemic: The Canadian Case”**
- 13:30 – 15:00 **Lunch & Poster Viewing**
- 15:00 – 16:00 **The Role of NGO's in the Global Response to Viral Threats**  
Chair: Daniel A. Sharp, President, Royal Institution World Science Assembly
- 15:00 – 15:20 Daniel Berman, Coordinator, Access to Essential Medicines Initiative, Médecins sans Frontières, France: **“Need for novel approaches to HIV/AIDS treatment in resource-poor settings; stimulating R&D response”**
- 15:20 – 15:40 Jean-Michel Lavoie, President, Pharmaciens sans Frontières, Canada: **“The role of pharmacists in drug distribution”**
- 15:40 – 16:00 Anand Mehta, Associate Director and Associate Professor, Drexel Institute Hepatitis B Foundation, USA: **“Glucosidase inhibitors as broad spectrum anti-viral agents”**

16:00 – 16:40	<b><u>Accelerating the Development of Anti-Virals</u></b>
16:00 – 16:20	Chair: Jean Pierre Saintouil, Director of the Office of Technology Transfer Institut Pasteur, France: “ <b>Collaborating with I2T, a new Translational Research Company</b> ”
16:20 – 16:40	Jeremy Carver, ICAV/CITAV Co-Founder & CEO, Trent University, Ontario, Canada: “ <b>A global solution for a global threat</b> ”
16:40 – 17:00	Coffee Break & Poster Viewing
17:00 – 18:30	<b><u>International Co-operation – Expanding ICAV</u></b>
16:45 – 17:10	Chair: Michel Chrétien, Program Director, Ottawa Health Research Institute, Canada: “ <b>Sciences sans Frontières: A new approach to expand ICAV</b> ”
17:10 – 17:30	Takeshi Kurata, Director General, National Institute of Infectious Diseases (NIID), Japan: “ <b>International co-operation on highly virulent avian influenza and HIV/AIDS</b> ”
17:30 – 17:50	Frank (Wenjun) Liu, Director, Molecular Virology Center, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China: “ <b>H5N1 avian influenza virus infection in waterfowl</b> ”
17:50 – 18:10	Oyewale Tomori, Chairman of the Board, BIOVACCINES Nigeria Ltd., Vice-Chancellor, Redeemer's University, Nigeria: “ <b>Expanding the role of ICAV for development in Africa through building national capacity</b> ”
18:10 – 18:30	Andrew H.-J. Wang, Distinguished Research Fellow & Director, Institute of Biological Chemistry, Academia Sinica, Taiwan: “ <b>Structure-based design of anti-viral drugs</b> ”
18:30 – 19:00	Reception
19:00 – 21:00	Dinner, Gzowski College Cafeteria, Trent University
	Chair: Bonnie Patterson, President of Trent University, Canada
	Keynote Speaker: TBA

- 09:00 – 18:00 **Plenary - Subproject Meetings**  
Chair: Nabil Seidah, Director, Laboratory of Biochemical Neuroendocrinology, Institut de recherches cliniques de Montréal (IRCM), Canada
- 09:00 – 09:25 Jeremy Carver, ICAV Co-Founder and CEO, Trent University, Canada: **“The drug discovery/development templates”**
- 09:25 – 09:50 Bruno Coutard, Operations Manager, VIZIER (Viral Enzymes Involved in Replication), France: **“Overview of the VIZIER project”**
- 09:50 – 10:15 Pierre Talbot, Director and Professor, INRS-Institut Armand-Frappier, University of Québec, Canada **“Coronavirus pathogenesis: beyond the common cold and onto SARS, the first pandemic of the 21st century: lessons to be learned”**
- 10:15 – 13:10 **Expansion of Subproject 2: “Inhibitors of Viral Fusion with Host Membranes”**  
Chair: Nabil Seidah, Director, Laboratory of Biochemical Neuroendocrinology, Institut de recherches cliniques de Montréal (IRCM), Canada
- 10:15 – 10:40 Robert S. Hodges, Professor, Departments of Biochemistry and Molecular Genetics, Director, Program in Biomolecular Structure, John Stewart Chair of Peptide Research, UCHSC at Fitzsimons, USA: **“Design and study of novel coiled-coil peptide inhibitors and antibodies against SARS-coronavirus spike protein”**
- 10:40 – 11:05 Michael D. Miller, Merck Research Laboratories, USA: **“A human monoclonal antibody neutralizes diverse HIV-1 isolates by binding a critical gp41 epitope”**
- 11:05 – 11:30 *Coffee Break & Poster Viewing*
- 11:30 – 11:55 Éric A. Cohen, Directeur, Unité de Rétrovirologie Humaine, Institut de Recherches Cliniques de Montréal, Canada: **“Viral and host cell determinants influencing HIV-1 assembly and egress”**
- 11:55 – 12:20 Emil Pai, Head, Division of Molecular & Structural Biology, Ontario Cancer Institute, Canada **“The promiscuity of an antigen-binding site: probing the specificity of an anti-HIV antibody”**
- 12:20 – 12:45 Dominique Schols, Faculty of Medicine, Rega Institute, Leuven, Belgium, **“Novel HIV entry inhibitors targeting the CD4 receptor and gp120 qualify as microbicide drugs”**
- 12:45 – 13:10 Ajoy Basak, Scientist, Diseases of Aging, Ottawa Health Research Institute, Canada: **“Targeting the host cellular proprotein convertases for intervention of viral infections”**
- 13:10 – 14:30 *Lunch & Poster Viewing*
- 14:30 – 18:00 **New ICAV Subproject 9: “Viral Resistance”**
- 14:30 – 15:30 **Subtopic: “Drug Resistance”**
- 14:30 – 14:55 François Clavel, Laboratoire de Recherche Antivirale, IMEA/INSERM, France : **“HIV drug resistance”**

14:55 – 15:20 Christopher D. Richardson, Senior Scientist, Division of Cancer Genomics and Proteomics, Advanced Medical Discovery Institute/Ontario Cancer Institute, Canada: “RNA interference and gene therapy approaches towards the treatment of hepatitis C: The fight against resistance”

15:20 – 18:00 *Subtopic: “Natural Resistance”*

15:20 – 15:45 Chair: Jonathan Stoye, Head of Virology, National Institute for Medical Research (NIMR), Mill Hill, UK: “Natural restriction factors for retroviruses”

15:45 – 16:10 Eleanor Fish, Head, Division of Cellular & Molecular Biology, Toronto General Research Institute, Canada: “Interferons: critical anti-virals linking innate and adaptive immune responses”

16:10 – 17:00 *Coffee Break & Poster Viewing*

17:00 – 17:25 Annapurna Vyakarnam, Senior Lecturer, Department of Infectious Diseases, King's College, UK: “HIV infection is suppressed by “G9”, a novel innate anti-HIV protein in human CD4 T-cells”

18:00 – 20:00 *Dinner and Entertainment in the Great Hall, Trent University*

**Keynote Speaker: The Honourable Carolyn Bennett, Minister of State for Public Health, Health Canada**

09:00 – 11:00	<b><u>Expansion of Subproject 5: “Inhibitors of Viral Replicases”</u></b>
09:00 – 09:25	Chair: Michael James FRS, FRSC, Canada Research Chair in Protein Structure and Function, Professor, Department of Biochemistry, University of Alberta, Canada: “Non-nucleoside inhibitors of NS5B polymerase from HCV, genotypes 1b and 2a”
09:25 – 09:50	Noël Tordo, Chef d'Unité, Institut Pasteur, France: “Anti-viral strategies targeting the transcription/replication complex of negative-strand RNA viruses”
09:50 – 10:15	François Jean, Assistant Professor, CIHR/Health Canada Research Initiative on Hepatitis C Scholar, Life Sciences Centre, University of British Columbia, Canada: “Targeting viral protease-associated replication complexes for antiviral chemotherapy: recent progress and future challenges”
10:15 - 13:10	<b><u>Expansion of Subproject 8: “Proteomics of Viruses and Host Response to Viral Infection”</u></b>
10:15 – 10:40	Chair: Yossef Av-Gay, Associate Professor, University of British Columbia, Canada: “Kineome analysis using proteomics”
10:40 – 11:05	Chris Overall, Professor, Canada Research Chair in Metalloproteinase Biology, University of British Columbia, Canada: “Viral protease degradomics”
11:05 – 11:30	Coffee Break & Poster Viewing
11:30 – 11:55	Steven Pelech, President, Chief Scientific Officer and Director, Kinexus Bioinformatics Corporation, Canada: “Tracking the kineome and phosphoproteome by multi-immunoblotting and antibody microarrays”
11:55 – 12:20	Ralf Altmeyer, Scientific Director, HKU-Pasteur Research Centre, Hong Kong, China: “Identification of virus entry inhibitors from a TCM-derived compound library”
12:20 – 12:45	Tao Peng, Guangzhou Institute of Biomedicine and Health (GIBH), China: “The trafficome: a rich field for anti-viral agents”
12:45 – 13:10	Christopher Hogue, Associate Professor, University of Toronto & Samuel Lunenfeld Research Institute, Canada: “Viral protein and small molecule interaction resources”
13:10 – 14:00	Lunch
14:00 – 15:30	<b><u>Breakout into Subproject Meetings</u></b>
15:30 – 17:00	<b><u>Plenary Summary</u></b> Chair: Chris Overall, University of British Columbia, Canada Reports from Subproject Leaders Jeremy Carver: Business model, funding initiatives, etc. Q & A Next Steps
17:00	<b><u>Closing Remarks</u></b> Michel Chrétien, ICAV Co-Founder & Program Director, OHRI, Canada  Departure