CSV2018:
The 2nd Symposium of the Canadian Society for Virology

June 13-15, 2018
Dalhousie University
Sir Charles Tupper Medical Building
5850 College Street
Halifax, Nova Scotia, Canada
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Support
Wednesday, June 13th

15:00  Registration and refreshments (Tupper Link)
          Poster setup (CHEB 170)

17:00 - 17:20  Welcome remarks (Theatre B)
              Craig McCormick (Dalhousie U)
              CSV co-founder
              CSV2018 co-organizer

17:20 - 18:00  Keynote Lecture (Theatre B)
              David Kelvin (Dalhousie University)
              “Flu 1918 to Flu 2018, 100 years of coughing, sneezing, chills and aches and pains”

18:00 - 18:40  Keynote Lecture (Theatre B)
              Sylvain Moineau (Université Laval)
              “CRISPR-Cas Systems and Phages: The Ongoing Battle”

19:00 - 22:00  Poster Session #1 (CHEB 170)
               Wine and Cheese served during poster session

Thursday, June 14th

8:00 - 9:00  Meet the PIs - Breakfast (CHEB 170)

9:00 - 10:35  Topic #1: Emerging Viruses (Theatre B)
              Session Chair: Darryl Falzarano (VIDO-InterVac)

9:00  Vikram Misra (U. of Saskatchewan)
       “Bats: The source of the next pandemic or cure for deadly viral diseases”

9:25  Michael Drebot (Public Health Agency of Canada)
       “From the field to the lab and back again: On-going Lassa virus research at NML”

9:50  Md Niaz Rahim (U. of Manitoba)
       “Pan-filovirus T-cell vaccine provided complete protection against Ebola and Marburg virus lethal challenges”

10:05  Corina Warkentin (U. of Ottawa)
       “Inhibition of receptor tyrosine kinase signaling blocks entry of filoviruses”

10:20  Neda Barjesteh (McMaster U.)
       “Elucidating the role of viral infection on the pathogenesis of Amyotrophic Lateral Sclerosis”

10:35  Health Break (Tupper Link)
11:00 - 12:35  **Topic #2: Viral Subversion of Host Cell Processes**  (Theatre B)  
**Session Chair: Nelly Pante (UBC)**

11:00  
Bruce Banfield (Queen’s U.)  
“Early Stages in the Morphogenesis of Herpes Simplex Virus”

11:25  
Maya Shmulevitz (U. of Alberta)  
“Niche-to-niche variations in reovirus-host interactions”

11:50  
Nichole McMullen (Dalhousie U.)  
“Unconventional release of fusogenic nonenveloped reoviruses”

12:05  
Justine Sitz (Université Laval)  
“Interaction of human papillomavirus E7 with DNA repair-specific E3 ligase RNF168”

12:20  
Quentin Osseman (U. de Montréal)  
“Regulation of Respiratory Syncytial Virus infection by the autophagy receptor SQSTM1/p62 in airway epithelial cells”

12:45 - 13:45  **CSV Business Meeting**  (Theatre B)  
**Or**  
**Writing Workshop**  (Theatre A)  
co-sponsored by: *PLoS Pathogens* and *PLoS ONE*  
coordinated by: Dr. Eileen Clancy, *PLoS ONE* Senior Editor  
Karen Mossman, *PLoS Pathogens* Editor

Box lunches will be available

14:00 - 15:10  **Topic #3: Viruses of Microbes**  (Theatre B)  
**Session Chair: Karen Maxwell (U. of Toronto)**

14:00  
Lori Burrows (McMaster U.)  
“Pseudomonas phage-host interactions”

14:25  
Alexander Hynes (McMaster U.)  
“Following Phages through Fecal Transplants”

14:40  
Casey Jones (Dalhousie U.)  
“The gut virome of pediatric Crohn’s Disease following exclusive enteral nutrition”

14:55  
Jaclyn McCutcheon (U. of Alberta)  
“Type IV pili-specific bacteriophages of Stenotrophomonas maltophilia”

15:10  
Nikhil George (U. of Waterloo)  
“Examining viral populations, CRISPR-resolved virus-host interactions, and CRISPR-Cas system diversity in a municipal landfill”

15:50  
**Health Break (Tupper Link)**
16:15 - 17:25  **Topic #4: Antivirals and Vaccines** (Theatre B)  
**Session Chair: Matthias Götte (U. of Alberta)**

16:15  
3-Minute Thesis presentations from trainees:  
1. Ali Zhang (McMaster U.)  
   “Neuraminidase Inhibitors Enhance Fc-Dependent Effector Functions Elicited by Hemagglutinin Stalk-Binding Broadly-Neutralizing Antibodies”  
2. Briti Saha (U of Ottawa)  
   “Identification of pharmacological targets and small molecules inhibiting adenovirus replication”  
3. Mariel Kleer (Dalhousie U.)  
   “Characterization of a Novel Host-Targeted Antiviral Molecule”  
4. Andrea Monjo (Dalhousie U.)  
   “Photodynamic Inactivation of Herpes Simplex Viruses”

16:30  
Panel Discussion on the future of vaccines and antiviral drugs (Theatre B)  
Panel Members:  
Lisa Barrett (Nova Scotia Health Authority),  
Marianne Stanford (VP Research, Immunovaccine),  
Marceline Côté (U. of Ottawa),  
Alyson Kelvin (Dalhousie U.),  
David Willer (Global Scientific Affairs Lead - Zoster, GSK)

17:25  **Soapbox Science Launch Event** (Tupper Courtyard)

18:00 - 18:40  **Keynote Lecture** (Theatre B)  
Kate O’Brien (Johns Hopkins U)  
“Chasing the causes of serious pneumonia among children in Africa and Asia: PERCH Study Results”

19:00 - 22:00  **Poster Session #2**  
Wine and Cheese served during poster session

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**Friday, June 15th**

8:00 - 9:00  **Meet the PIs - Breakfast** (CHEB 170)

9:00 - 10:35  **Topic #5: Emerging Methods in Virology**  
**Session Chair: Marceline Côté (U. of Ottawa)**

9:00  
Roger Lippe (U. de Montreal)  
Flow virometry: A novel and powerful approach to decipher viral egress

9:25  
Ryan Noyce (U. of Alberta)  
“SynViro: Building the next generation of therapeutic poxvirus vectors”
9:50  Vanessa Meier-Stephenson (U. of Calgary; U. of Lethbridge)  
“Targeting Persistent Hepatitis B Virus: Identification of a G4-Quadruplex Structure Motif in a Key Region of HBV’s Genome”

10:05  Yumiko Komatsu (Kyoto U.)  
“Development of iPSC-derived neural stem cells transduced with Borna disease virus vector expressing thymidine kinase for cancer gene therapy”

10:20  Brennan Dirk (Western U.)  
“Seeing is believing: Visualizing multi-protein complexes mediating HIV-1 immune evasion”

10:35  **Health Break** (Tupper Link)

11:00 - 12:35  **Topic #6: RNA in Virus Infection** (Theatre B)  
**Session Chair: Andrew White (York U.)**

11:00  Selena Sagan (McGill U.)  
“miR-122-mediated protection of the HCV genome from pyrophosphatase activity”

11:25  Martin Pelchat (U. of Ottawa)  
“Insight into influenza A virus cap-snatching”

11:50  Carolyn Robinson (Dalhousie U.)  
“Viral Modulation of RNA Granules is Reliant on Autophagic Flux”

12:05  Eric Pringle (Dalhousie U.)  
“Alternative translation initiation during KSHV lytic replication”

12:20  Tyler Mrozowich (U. of Lethbridge)  
“Towards Obtaining a Nanoscale Structure of the 3’ Terminal Region of Japanese Encephalitis Virus Genome”

12:45 - 13:45  **Live Taping of This Week in Virology with Vincent Racaniello (Planet Earth’s Virology Professor) and Science Writer Alan Dove, PhD**

Lunch boxes will be available, Guests TBD

14:00 - 14:35  **Topic #7: Viruses of Flora and Fauna** (Theatre B)  
**Session Chair: Eric Jan (UBC)**

14:00  Eric Jan (UBC)  
“Translation initiation of alternative reading frames by viral internal ribosome entry sites”

14:25  Helene Sanfacon (Agriculture Canada)  
“Expanding repertoire of plant (+)-strand RNA virus proteases: beyond the cysteine and serine proteases”
14:50    Shuang Yang (UBC)  
        “The underlying mechanism of a unique nuclear entry pathway used by the parvovirus minute virus of mice”

15:05    Gerard Gaspard (Dalhousie)  
        “Atypical Transmembrane Domain of Reptilian Reovirus p14 Fusion-Associated Small Transmembrane (FAST) Protein Mediates it’s Trafficking”

15:25    Jared Rowell (U. of Calgary)  
        “Porcine circovirus 2 (PCV2) activated apoptosis of non-infected cells”

15:40    Health Break (Tupper Link)

16:05    Topic #8: Antiviral Innate Immunity (Theatre B)  
        Session Chair: Karen Mossman (McMaster U.)

16:05    Stephanie DeWitte-Orr (Wilfrid Laurier U.)  
        “Sequence-specific, long dsRNA induced innate antiviral mechanisms”

16:30    Kathy Magor (U. of Alberta)  
        “Influenza detection and interferon response in the reservoir host”

16:55    Jiangyi He (Memorial U.)  
        “Murine Cytomegalovirus Immune Evasion Targeting the MEK-IRF1 Connection”

17:10    Dacquin Kasumba (Université de Montréal)  
        “The NADPH oxidase DUOX2 differentially modulates the production of respiratory virus-induced cytokines by airway epithelial cells”

17:25    Hannah Stacey (McMaster U.)  
        “IGA immune complexes stimulate netosis during viral infection and autoimmunity”

17:45    Closing Remarks  
        Nathalie Grandvaux (U. de Montreal)  
        CSV co-founder  
        CSV2018 co-organizer

18:30 - 19:30    Tour of Halifax Citadel National Historic Site  
        Citadel tours by 78th Highlanders

20:00 - 23:00    Reception at Alexander Keith’s Brewery

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Saturday, June 16th

10:00 - 13:00    Soapbox Science Event at Halifax Seaport Farmers’ Market

Departure