Submitted Posters

*Bold names are presenting authors.

1. Investigating the mechanism of surface lipoproteins translocation via Slam - a type XI secretion system in Gram-negative bacteria
   Minh Sang Huynh, Yogesh Hooda, Yuzi (Raina) Li, Maciej Jagielnicki, Christine Chieh-lin Lai and Trevor F Moraes

2. Intranasal immunization of HD-Ad-FS induces robust systemic and airway mucosal immunities against SARS-CoV-2 and variant infection in mice and hamsters.
   Peter Zhou, Jacqueline Watt, Juntao Mai, Huibi Cao, Zhijie Li, Rongqi Duan, Ying Quan, Anne-Claude Gingras, James M. Rini, Jim Hu and Jun Liu

3. Transcriptional control of HIV-1 replication.
   Jiazhen Jin, Subha Dahal and Alan Cochrane

4. The impact of national income and vaccine hesitancy on country-level COVID-19 vaccine uptake.
   Javad Moradpour, Ali Shajarizadeh, Jasmine Carter, Ayman Chit and Paul Grootendorst

5. Elucidating mechanisms of susceptibility and resistance to microsporidia in wild isolates of C. elegans
   Meng Xiao, Yin Chen Wan, Calvin Mok and Aaron W. Reinke

6. Immune kinetics of gonococcal induced pelvic inflammatory disease in mice
   Anna Bojagora, Genevieve Mailhot and Scott Gray-Owen

7. Adapting the neisserial type XI translocon, SLAM, as a molecular multitool in antigen production and delivery
   Dixon Ng, Natalie YT Au, Christine CC Lai, Sang M Huynh, Quynh Huong Nguyen, Clement Chan, Epshitas A Islam, Jamie E Fegan, Anthony B Schryvers and Trevor F Moraes

8. Evaluating the estimability of within-host disease models
   Madeline Jarvis-Cross and Martin Krkosek

9. Inhibition of coronavirus infection by ABO isoagglutinins
   Priyal Shah, Beth Binnington, Martin L. Olsson, Jessica Lam and Donald R. Branch

10. Assessment of testes histomorphological changes and spermatogenesis in mice exposed to ART in utero
    Spencer Brooks, Caroline Dunk, Sarah Sabatinos and Lena Serghides

11. The Kaul Lab: Immune and microbial associations of susceptibility to HIV and other viral infections
    Rupert Kaul, Sanja Huibner, Marcio de Carvalho, James Pollock, Diana Yang, Rachel Liu, Jinny Tsang and Eric Armstrong
12. Exploring anti-restriction-like proteins in *Streptomyces* phages
   **Ethan Solomon**, Sarah Kronheim and **Karen Maxwell**

13. Impact of SARS-CoV-2 infection on the neuropathogenic potential of myelin-primed Th17 cells in animal models of MS
   **Baweleta Isho**, Catherine Chi, Salma Sheikh-Mohamed and **Jennifer L. Gommerman**

14. A new high-throughput method for mapping viral integration sites
   **Manisha Kabi** and **Guillaume J. Filion**

15. Automated quantification of *Nematocida parisii* infection within *Caenorhabditis elegans*
   **Edward B. James** and **Aaron W Reinke**

16. Unlocking the anti-viral arsenal: Targeting SR kinases as a broad-spectrum anti-viral strategy.

17. Friends and foes of HIV: The impact of host protein incorporation into the viral envelope
   **Arvin T. Persaud**, Jasmin Khela, Deepa Chaphekar, Claire Fernandes, Jonathan Burnie and **Christina Guzzo**

18. COVID-19, sociodemographic risk, and air pollution: Is air pollution mediating disease spread?
   **Amanda Norton**, Maheen Riaz, Laura Rosella and **Matthew Adams**

19. Modelling the neuro-inflammation of the spinal cord in a polio-like paralysis, using human immune-competent neural avatars
   **Hera Mohsin**, Jake McNairn, Chaoying Long, Kennedy Barkhouse, Ai Tian, Roseanne Nguyen, David Millar, Alex Rigney, Fatima Naimi, YoungJun Ju, E. Ann Yeh, Yun Li and **Julien Muffat**

20. Elucidating mechanisms of susceptibility and resistance to pathogens in large panel of wild *C. elegans* isolates
    **Angcy Xiao** and **Aaron Reinke**

21. Phylodynamic investigation of 2022 Enterovirus D68 outbreaks in Ontario, Canada and Maryland, USA reveals differential transmission dynamics
    **Martin Grunnill**, Alireza Eshaghi, Lambodhar Damodaran, Sandeep Nagra, Adriana Peci, Philip Banh, Sandra Isabel, Thomas Braukmann, Alex Marchand-Austin, Jonathan Gubbay, Jianhong Wu, Samir N. Patel and **Venkata R. Duvvuri**

22. Understanding the global antiphage defence arsenal of a pandemic foodborne pathogen
    **Landon J. Getz** and **Karen L. Maxwell**

23. Unveiling hidden gems: A flow virometry screening assay identifies CD38, CD97, and CD278 on HIV particles
    **Jonathan Burnie**, **Claire Fernandes**, **Deepa Subhash Chaphekar**, Arvin T. Persaud, Shubeen Ahmed, Vera A. Tang and **Christina Guzzo**

24. Exploring the fungal frontier: Mycovirome insights for WHO priority pathogens
    **Sergei Lenskii**, Marc Meneghini and **Artem Babaian**
25. Systematic functional screening reveals an effector-metaeffector interaction between the multifunctional *Chlamydia trachomatis* effector CpoS and CT214

  **John MacPherson, Nicole Reinhold-Larsson, Michael Starnbach, Alexei Savchenko, Malene Urbanus and Alexander Ensminger**

26. A multi-specific, multi-affinity antibody platform neutralizes sarbecoviruses and confers protection against SARS-CoV-2 *in vivo*

  **Clare Burn Aschner, Krithika Muthuraman, Iga Kurcharska, Hong Cui, Katherine Prieto, Manoj Nair, Maple Wang, Natasha Christie-Holmes, Betty Poon, Jess Lam, Azmira Sultana, Rob Kozak, Samira Murbareka, John Rubinstein, Edurne Rujas, Bebhinn Treanor, David Ho, Arif Jetha and Jean-Philippe Julien**

27. Immune factors associated with *Mycobacterium tuberculosis* infection outcomes and implications for vaccine development

  **Jacqueline Watt, Wenxi Xu, Dustin Sokolowski, Ming Li and Jun Liu**

28. Ostrowski Lab: T cell-mediated control of viral infection

  **Mario Ostrowski, Elizabeth Yue, Jun Liu, Vitaliy Matveev, Wan Koh, Patrick Budylowski, Segen Kidane, Philip Samaan, Joseph Vincent De Fazio, Aideen Teeling, Suji Udayakumar, Annam Imran, Serena Chau, Justin Mendoza, Thomas Morningstar, Mutian Wang and Ellaine Tohan**

29. Ultrasound-guided transfection of claudin-5 improves lung endothelial barrier function in lung injury without impairing innate immunity

  **Rajiv Sanwal, Victoria Mintsopoulos, Mihails Ditmans, Alice Lang, Elyse Latreille, Sivash Ghaffari, Negar Khosraviani, Raffi Karshafian, Howard Leong-Poi, David M Hawg, Laurent Brochard, Alberto Goffi, Arthur S Slutsky and Warren L Lee**

30. *P. aeruginosa* upregulate anti-phage defence when in a community

  **Véronique Taylor and Karen Maxwell**

31. Investigating the impact of human herpesvirus 6 on oligodendrocytes and astrocytes in cultures derived from human pluripotent stem cells

  **Kennedy Barkhouse, Chaoying Long, Hera Mohns, Jake McNairn, Roseanne Nguyen, Ai Tian, David Millar, Fatima Naimi, YoungJun Ju, Yun Li and Julien Muffat**

32. Unleashing Bayesian magic in the realm of HIV and beyond: Harmonizing batch effects in single-cell transcriptomics

  **Sarah Salloum and Guillaume Filion**

33. Delivery of natural product antimicrobials to priority pathogens by Streptomyces extracellular vesicles

  **Kirsten J. Meyer and Justin R. Nodwell**

34. Comprehensive phage annotation using Hidden Markov Models and AI.

  **Tatiana Lenskaia and Alan Davidson**

35. Diet and host genetics control the oncogenic response by pks+ *E. coli* in colon carcinogenesis

  **Bhupesh Kumar Thakur, Yann Malaise, Saurav Roy Choudhury, Anna Neustaeter, Williams Turpin, Catherine Streutker, Julia Copeland, Erin O.Y. Wong, William W. Navarre, David S. Guttmann, Kenneth Croitoru, Christian Jobin and Alberto Martin**

36. Estimating indoor airborne concentrations of SARS-CoV-2

  **Zoe Hoskin, Jeffrey Siegel and Sarah Haines**
37. Investigating coronavirus-associated neuropathology using human iPSC-derived cultures of neurons and glia

Jake McNairn, Ai Tian, Roseanne Nguyen, Alex Rigney, Patrick Budylowski, Erin Stout, Kennedy Barkhouse, Hera Mohsin, Afrin Bhattacharya, Wendy Choi, Miguel Torres-Perez, David Millar, Fumao Sun, Yun Li and Julien Muffat

38. Pneumococcal transmission dynamics in Canada: 2010 to 2019

Alison Simmons, David Fisman, Sarah Buchan and Ashleigh Tuite

39. Characterizing CLK protein domains that confer differential effect on HIV-1 gene expression

Xenia Fernandes, Subha Dahal and Alan Cochrane

40. Comparing the genetic diversity present in Influenza A virus propagated either in vitro or in ovo

Juliette Blais-Savoie, Emily Chien, Winfield Yim, Lily Yip, Nicole Mideo and Samira Mubareka

41. Assessment of the protective potential of monoclonal antibodies against antigen candidate transferrin binding protein B

Natalie Y.T. Au, Dixon Ng, Epshita Islam, Isaac S. Lee, Gursonika Binepal, David Curran, Jamie Fegan, Anthony B. Schryvers, Scott Gray-Owen and Trevor Moraes

42. Employing a synthetic human gut microbial community to study host gene-microbe interactions in inflammatory bowel disease

Giuliano Bayer, Boyan K Tsankov, Bana Samman, Grace V Visser, Tapas Mukherjee, Elisabeth G Foerster, Shaheed Hakim, Emma Allen-Vercoe and Dana J Philpott

43. The systematic study of Legionella: from meta-effectors to phage

Malene Urbanus, Beth Nicholson, Morgan Petersen, John MacPherson, Jordan Lin and Alexander Ensminger

44. Detection of bacterial ADP-heptose by a rare intestinal stem cell population drives epithelial regeneration from Paneth cell de-differentiation

Shawn Goyal, Ojas Singh, Derek K.L. Tsang, Cynthia Guo, Caitlin F. Harrigan, Scott A. Yuzwa, Jeffrey L. Wrana, Dana J. Philpott, Scott Gray-Owen and Stephen E. Girardin


Cassandra Freitas, Sarah Buchan, Rahim Moineddin, Ann Burchell for the CHESS Study Team

46. A Parasite Odyssey: An RNA virus concealed in Toxoplasma gondii

Purav Gupta, Aiden Hiller, Jawad Chowdhury, Declan Lim, Dillon Lim, Artem Babaian, Luke Pereira and Alex Morales

47. The Mubareka Lab: Emerging and respiratory virus research

Sophie Aicher, Andra Banete, Juliette Blais-Savoie, Emily Chien, Juan Corredor, Bryan Griffin, Emily Halajian, Jonathon Kotwa, Yaejin Lee, Kuganya Nirmalarajah, Lily Yip, Winfield Yim and Samira Mubareka