



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
in HIV/AIDS

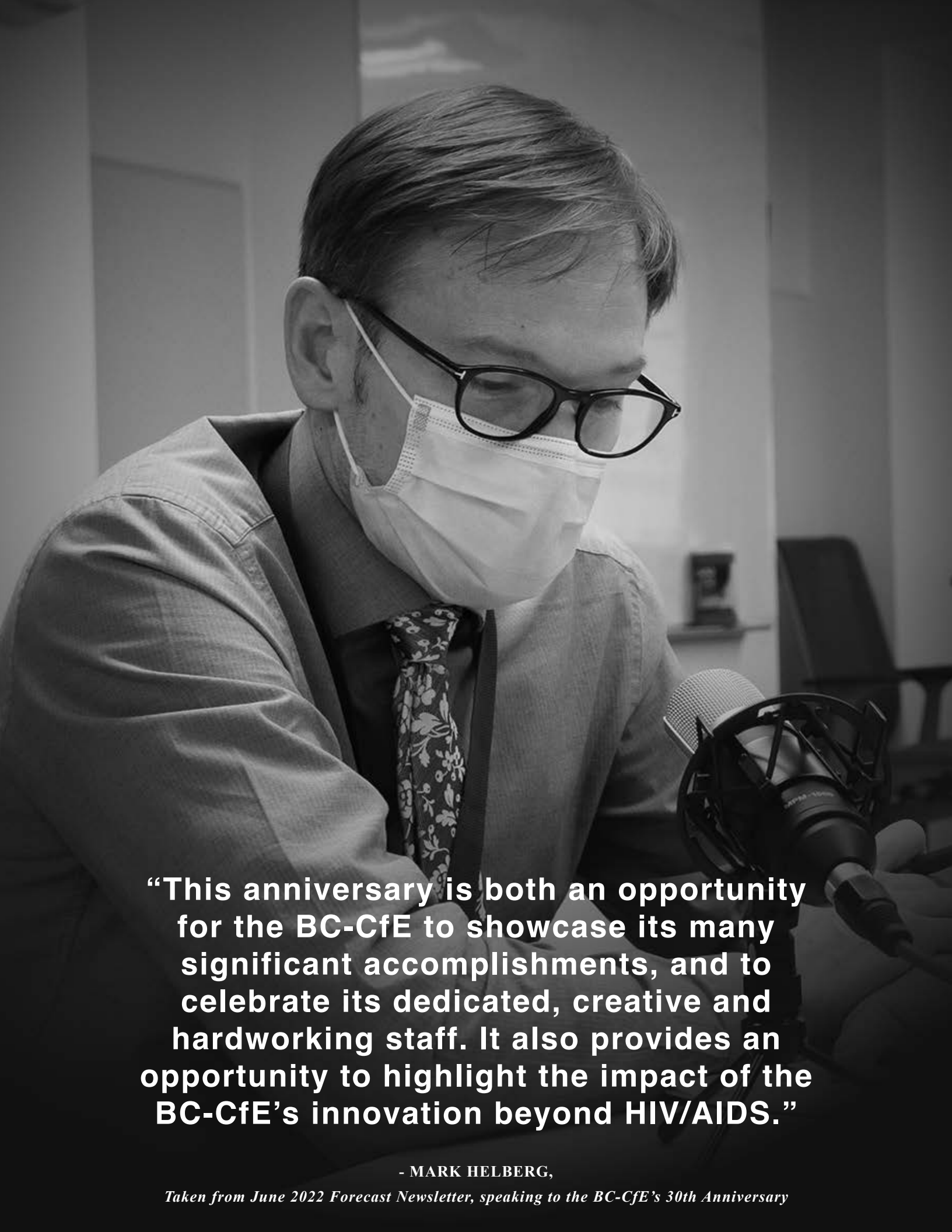


BC Centre for Excellence in HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION

REPORTING PERIOD

2022 - Q1 | APRIL 1 - JUNE 30 2022



“This anniversary is both an opportunity for the BC-CfE to showcase its many significant accomplishments, and to celebrate its dedicated, creative and hardworking staff. It also provides an opportunity to highlight the impact of the BC-CfE’s innovation beyond HIV/AIDS.”

- MARK HELBERG,

Taken from June 2022 Forecast Newsletter, speaking to the BC-CfE’s 30th Anniversary

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Recruitment & Internal Hiring

CLAUDETTE CARDINAL

Indigenous Peer Research Associate, CARE (Communities, Aboriginal, Relationships, Experiences) Study

NEIL FAUGHT

Statistician

ARIELLA HORVATH

Graphic Designer & Videographer

MICHAEL OWUSU BUDU

Epidemiologist, COAST Study

EBRONHILDA TAKEH

Epidemiologist

OLIVIA TOMLINSON

Research Assistant, COAST Study

RANA VAN TUYL

Research Coordinator, Thrive Study

Grants, Awards & Funding

DR. ZABRINA BRUMME

Providence Health Care (PHC) Research & Mission Award

DR. MARIANNE HARRIS

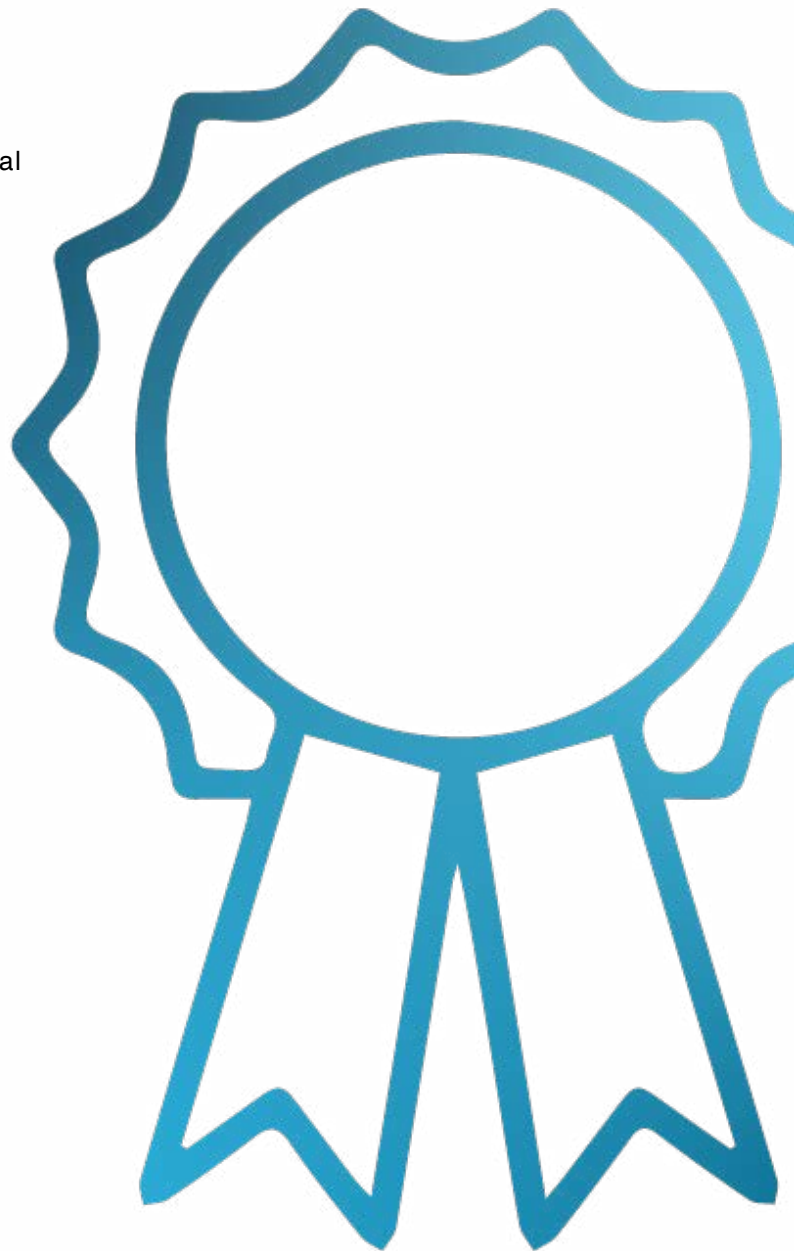
Canadian Foundation for AIDS Research (CANFAR) Leadership Award

DR. KATHERINE KOIJ

CIHR Canadian Trials Network (CTN) Postdoctoral fellowship award

THRIVE STUDY PEER RESEARCH ASSOCIATES

CAHR-CANFAR Community-based Research award



Presentations & Educational Sessions

PRESENTATIONS & EDUCATIONAL SESSIONS

BC-CfE Journal Clubs

Findings from SHARE: a qualitative study of patient and provider perspectives on overcoming barriers to HIV care and retention

Tatiana Pakhomova, Rebeccah Parry, Nicole Dawydiuk, Tim Wesseling, Dr. Kate Salters
April 14, 2022

Mixed methods research: A methodology combining results from HIV phylogenetic data and semi-structured interviews

Nance Cunningham
May 25, 2022

A twenty-year population-based study of mortality outcomes among people living with HIV and psychotic disorders

Kiana Yazdani
June 23, 2022

HIV/AIDS Webinar Learning Series

Updates to the Primary Care Guidelines: Caring for women living with HIV in primary care

Dr. Neora Pick
April 21, 2022

Pharmacovigilance: Antiretroviral drug safety monitoring in BC

Kathy Lepik
May 19, 2022

Menopause for women living with HIV: how can we support women through this transition?

Dr. Elizabeth King and Valerie Nicholson
June 15, 2022

PRESENTATIONS & EDUCATIONAL SESSIONS

BC-CfE Hope to Health Learning Series

Trauma/PTSD in Primary Care

Drs. Alana Hirsh and Simon Elterman
April 14, 2022

Delusional Infestation

Drs. David Harris and Clare Alexander
April 27, 2022

Polypharmacy and the art of medication management

Chase Fisher
May 18, 2022

BC-CfE Anniversary Conversation Series

Chapter 1 | The Early Days of Treating HIV in BC

Dr. Peter Phillips; moderated by Dr. Val Montessori
June 1, 2022

Chapter 2 | The Early HAART Era: A Turning Point in HIV Care in BC

Drs. Silvia Guillemi & Marianne Harris; moderated by Dr. Val Montessori
June 29, 2022

Treatment Optimization of Psychosis (TOP Collaborative Events)

TOP Educational Webinar 4

Various presenters
April 5, 2022

TOP Closing Congress

Various presenters
May 17, 2022

PRESENTATIONS & EDUCATIONAL SESSIONS

BOOST Quality Improvement (QI) Network Events

Interior BOOST Launch

Various presenters
June 7, 2022

Canadian Association for HIV Research (CAHR) Conference (April 27-29, 2022)

Oral Presentations

Wise Women Journeys: Streams of Knowledge and Rivers of Change, Tides of the Coast Salish Sea Bringing our Indigenous Healthcare Teachings

Niloufar Aran and Valerie Nicholson

Improvements in ART Initiation Over Time After Diagnosis Among Indigenous People Living with HIV in British Columbia, Canada

Nicole Dawydiuk

Trends in Illicit Drug Use Among Patients Recently Treated for Hepatitis C in British Columbia, Canada

Lauren Harrison

Investigation of Genetic Integrity and Longevity among HIV Proviruses Persisting During Long-Term ART

Natalie Kinloch

Humoral Responses to One, Two and Three COVID-19 Vaccine Doses in People Living with HIV Receiving Suppressive Antiretroviral Therapy (ART): A Longitudinal Study

Hope Lapointe

Incidence and type of adverse reactions following brand-to-generic antiretroviral product substitution in British Columbia, Canada

Kathy Lepik

The Use of Administrative Data in British Columbia

Dr. Viviane Lima

Access To Care And Impacts On HIV Treatment Interruptions During The COVID-19 Pandemic Among People Living With HIV In British Columbia, Canada

Dr. David Moore

Examining the Secondary Impacts of the COVID-19 Pandemic on Syndemic Production and HIV among Gay, Bisexual and other Men who have Sex with Men (GBM) in Vancouver, Canada

Dr. Jordan Sang

Factors Associated with Mortality in a Cohort of People Living with HIV in British Columbia, Canada

Clara Tam

Poster Presentations

CTN 328: Immunogenicity outcomes in people living with HIV following COVID-19 vaccination (HIV-COV)

Authors: Costiniuk CT, Singer J, Langlois M-A, Kulic I, Needham J, Burchell A, Samji H, Jenabian M-A, Walmsley S, Ostrowski M, Kovacs C, Tan D, Harris M, Hull M, Brumme ZL, Brockman MA, Margolese S, Mandarino E, Angel JB, Routy J-P, Cooper CL, Anis AH

HIV Genetic Diversity and Compartmentalization in Lung and Blood of Individuals on Long-term cART

Authors: Shahid A, Jones BR, Yang J, Dong W, Donohoe K, Brumme CJ, Joy JB, Leung JM, Brumme.

Investigating HIV Epidemiology and Drug Resistance in Ghana

Authors: Appah A, Beelen C, Kirkby D, Dong W, Brumme CJ, Ganu V, Amoah LE, Pupilampu P, Trebi NN, Brumme ZL

The cascade of care for hepatitis C virus among gay, bisexual and other men who have sex with men in Vancouver, Toronto and Montreal

Authors: Moore D, Wang L, Sang J, Skakoon-Sparling S, Barath J, Lachowsky N, Hart T, Lambert G, Hull M, Tan D, Grace D, Jollimore J, Apelian H, Lal A, Parlette A, Cox J

How's the care out there: A preliminary exploration of the home and community care needs of older adults living with HIV in British Columbia's Fraser Health region

Authors: Ali H, Lising G, Thomson A, Marante A, Cardinal C, Magagula P, Lyndon S, Van Tuyl R, Parashar S

It's just all about building relationships": Care Provider Perspectives on Supporting Care Engagement for People Living with HIV Experiencing HIV Treatment Interruptions

Authors: Pakhomova T, Parry R, Tim Wesseling T, Dawydiuk N, Nicholson V, Parashar S, Moore D, Tam C, Kao D, Karlsson M, Macdonald D, Hogg R, Barrios R, Salters K

Characterizing uptake of opioid agonist therapy among people living with HIV in British Columbia

Authors: Yazdani K, Salters K, Dolguikh K, Ye M, Trigg J, Joe R, Montaner J, Barrios R

Computational advances in molecular dating of within-host HIV systems

Authors: Jones B, Brooks K, Hunter E, Brumme Z, Joy J

Doxycycline as an Intervention for Bacterial Sexually transmitted infection ChemOprophylaxis (DISCO) study: Design of a national, multicentre randomized-controlled trial

Authors: Mohammed S, Hull M, Burchell A, Edward J, Singer J, Wong J, Cameron B, Misthra S, Romney M, Cox J, Poulin S, Gill J, Shukalek C, MacPherson P, Morshed M, Isaranuwachai W, Hall D, Gillis J, Gilbert M, Lester R, Tan D, Grennan T

Drug Resistance and Phylogenetic Clustering Among Previous Pre-Exposure Prophylaxis Users Who Seroconverted

Authors: McLaughlin A, Toy J, Montoya V, Sereda P, Trigg J, Granados A, Khanna S, Brumme C, Barrios R, Montaner J, Joy J

Examining Healthcare Service Utilization Patterns of People Living with HIV in Rural British Columbia, Canada

Authors: Yonkman A, Emerson S, McLinden T, Sereda P, Barrios R, Montaner J

Impacts of COVID-19 restrictions on access to HIV and other healthcare services among women living with HIV and HIV-negative women participating in the BC CARMA-CHIWOS Collaboration (BCC3) Study: Preliminary Data

Authors: Kaida A, King E, Tognazzini S, Patterson S, Campbell A, Povshedna T, Swann S, Levy S, Nicholson V, Mayer U, Albert A, Murrar M, Côté H

Knowledge of hepatitis C and awareness of reinfection risk among people who successfully completed direct acting antiviral therapy

Authors: Yazdani K, Dolguikh K, Zhang W, Shayegi-Nik S, Ly J, Cooper S, Trigg J, Bartlett S, Barrios R, Montaner J, Salters K

Preliminary Outcomes of a Low Barrier Hepatitis C virus (HCV) Testing and Linkage to Care Program Embedded within a Supervised Consumption Facility in Vancouver, BC.

Authors: Cooper S, Singh K, Hall D, Barrios R, Harris M, Montaner J, Salters K

Time until initiation of HIV care after an HIV+ test result recorded from 1997 to 2016 in British Columbia, Canada

Authors: Emerson S, Yonkman A, McLinden T, Sereda P, Barrios R, Montaner J

Trends in Hospitalization by Sex among People Living with HIV from 2006 to 2020 in the Canadian Healthcare Use Study (CHESS)

Authors: McClean A, Lu H, Ye M, Marshall C, Trigg J, McLinden T, Kooij K, Hogg R

Virologic outcomes following in-patient initiation of antiretroviral therapy (ART) in a population-based program in British Columbia, Canada.

Authors: Leung W, Zhang W, Trigg J, Kao D, Toy J, Lima V, Barrios R, Montaner J, Hull M

Investigating HIV Epidemiology and Drug Resistance in Ghana

Authors: Appah A, Beelen C, Kirkby D, Dong W, Brumme CJ, Ganu V, Amoah LE, Pupilampu P, Trebi NN, Brumme ZL

4th Symposium of the Canadian Society for Virology - CSV 2022 (June 05-07, 2022)

Molecular Characterization of HIV-1 Diversity in Ghana

Authors: Omondi FH, Kinloch NN, Dong W, Khadka P, Ren Y, Wilson A, Benko E, Ostrowski M, Lynch RM, Brumme CJ, Kovacs C, Jones RB, Lee GQ, Brumme ZL.

Genetics and Dynamics of Persisting and Rebounding Viruses in a Unique Case of HIV Superinfection

Authors: Omondi FH, Kinloch NN, Dong W, Khadka P, Ren Y, Wilson A, Benko E, Ostrowski M, Lynch RM, Brumme CJ, Kovacs C, Jones RB, Lee GQ, Brumme ZL.

Evaluation of COVID-19 Vaccine-Elicited Antibody Responses Against Variants of Concern

Authors: Mwimanzi F, Yaseen F, Lapointe H, Cheung PK, Sang Y, Umvilighozo G, Kalikawe R, Datwani S, Omondi FH, Burns L, Young L, Leung V, Agafitei O, Ennis S, Basra S, Lim LY, Ng K, Pantophlet R, Brumme CJ, Montaner JSG, Prystajecy N, Lowe C, DeMarco ML, Holmes DT, Simons J, Niikura M, Romney MG, Brumme ZL, Brockman MA.

Evidence of Attenuated HIV-1 Nef but not VPU Function in a Cohort of Rwandan Long-Term Survivors

Authors: Umvilighozo G, Mann JK, Jin SW, Mwimanzi FM, Sudderuddin H, Hsieh HSA, Brumme ZL, Brockman MA.

Dynamics and Evolution of Human Viruses Conference (June 21-24, 2022)

Oral Presentations

BBD: a BEAST2 package for extending tip date sampling

Brad Jones

Estimating HIV proviral integration dates with BEAST2. Oral presentation at Dynamics and Evolution of Human Viruses

Brad Jones

Phylogenetic prioritization of HIV-1 transmission clusters with viral lineage-level diversification rates

Rachel Miller

Poster Presentations

Canadian flight ban reduced importations SARS-CoV-2 delta sublineages from India, but was insufficient to prevent sublineages originating from the USA.

Authors: McLaughlin, A., Montoya, V., & Joy, J. B

Investigating the evolutionary origins of Sars-CoV-2 variants of concern using intra-host deep sequencing data

Authors: Montoya, V., McLaughlin A., Miller, R.L., and Joy, J.B

External Presentations

Increased expression of COVID-19 entry receptor complex in the HIV airway epithelium (poster)

14th Annual Canadian Respiratory Conference
Authors: Bettle A, Yang CX, Hernandez Cordero AI, Singhera G, Yang J, Shaipanich T, Guillemi S, Harris M, Montaner J, Dorscheid DR, Sin DD, Leung JM
 April 8, 2022

Phylodynamics in epidemic monitoring: integrating evolution and epidemiology

University of Western Ontario
 Dr. Jeffrey Joy
 April 8, 2022

Evolutionary genetics in epidemic monitoring: integrating evolution and epidemiology

University College Dublin
 Dr. Jeffrey Joy
 April 14, 2022

Origins, genetics, and evolution of HIV

University College Dublin
 Dr. Jeffrey Joy
 April 20, 2022

Immune responses to COVID-19 vaccination in People Living with HIV (PLWH) receiving suppressive antiretroviral therapy: Results from the Vancouver arm of CTN328

CTN Annual Meeting
 Dr. Zabrina Brumme
 April 26, 2022

Ongoing illicit drug toxicity crisis is impacting clients with Hepatitis C

Gilead Sciences webinar and panel discussion
 Dr. Kate Salters
 May 6, 2022

Within-host genetics and dynamics of HIV persistence

NCI-Fredrick HIV DRP Seminar Series
 Dr. Zabrina Brumme
 May 10, 2022

Impact of sustained virologic response (SVR) on presence of depressive symptoms in the HIV-HCV co-infected population

Canadian Liver Meeting 2022
Authors: Marathe G, Moodie EM, Brouillette M-J, Lanière Delaunay C, Cox J, Cooper C, Gill J, Martel-Laferrrière V, Pick N, Vachon M-L, Walmsley S, Klein MB; Canadian Co-Infection Cohort
 May 13-15, 2022

The Use of Mathematical Modelling to Inform Public Health Interventions.

University of British Columbia (UBC)
 Department of Medicine Grand Rounds
 Dr. Viviane Lima
 May 15, 2022

Serial infection with SARS-CoV-2 Omicron BA.1 & BA.2 following three-dose COVID-19 vaccination

WHO COVID-19 Assays Working Group
 Dr. Zabrina Brumme
 June 8, 2022

Health System Innovations to Address Current Gaps to Better Support Clients with Complex Health Needs

Provincial Standing Committee on Health
 Dr. Kate Salters
 June 21, 2022

Dr. Julio Montaner appeared on Episode 36 of the Blue and Goldcast podcast with University of British Columbia President Santa Ono on April 8, 2022.

Peer-reviewed Journal Articles & Book Publications

PUBLICATIONS

1: Nehumba D, Paiero A, Tafessu H, Salters K, Moore D, Lima VD. Household food insecurity, sense of community belonging, and access to a regular medical doctor as mediators in the relationship between mood and/or anxiety disorders and self-rated general health in Canada between 2011 and 2016: a serial cross-sectional analysis. *Can J Public Health*. 2022 Jun 28. doi: 10.17269/s41997-022-00658-0. Epub ahead of print. PMID: 35764860.

2: Blumenkrans E, Hamilton J, Mohd Salleh NA, Kaida A, Small W, Barrios R, Milloy MJ. HIV and Incarceration: Implications for HIV-Positive People Who Use Illicit Drugs During a Seek, Test, Treat, and Retain Initiative in Canada. *J Correct Health Care*. 2022 Aug;28(4):236-242. doi: 10.1089/jchc.20.04.0021. Epub 2022 Jun 27. PMID: 35758827.

3: Hart TA, Noor SW, Berlin GW, Skakoon-Sparling S, Tavangar F, Tan D, Lambert G, Grace D, Lachowsky NJ, Jollimore J, Sang J, Parlette A, Lal A, Apelian H, Moore D, Cox J; Engage Study. Pre-exposure prophylaxis and bacterial sexually transmitted infections (STIs) among gay and bisexual men. *Sex Transm Infect*. 2022 Jun 14;sextrans-2021-055381. doi: 10.1136/sextrans-2021-055381. Epub ahead of print. PMID: 35701145.

4: Card KG, Adshade M, Hogg RS, Jollimore J, Lachowsky NJ. What public health interventions do people in Canada prefer to fund? A discrete choice experiment. *BMC*

PUBLICATIONS

Public Health. 2022 Jun 13;22(1):1178. doi: 10.1186/s12889-022-13539-5. PMID: 35698077; PMCID: PMC9189791.

5: Namango IH, Marshall C, Saddler A, Ross A, Kaftan D, Tenywa F, Makungwa N, Odufuwa OG, Ligema G, Ngonyani H, Matanila I, Bharmal J, Moore J, Moore SJ, Hetzel MW. The Centres for Disease Control light trap (CDC-LT) and the human decoy trap (HDT) compared to the human landing catch (HLC) for measuring *Anopheles* biting in rural Tanzania. *Malar J*. 2022 Jun 11;21(1):181. doi: 10.1186/s12936-022-04192-9. PMID: 35690745; PMCID: PMC9188237.

6: Chambers C, Deeks SL, Sutradhar R, Cox J, de Pokomandy A, Grennan T, Hart TA, Lambert G, Moore DM, Coutlée F, Grace D, Grewal R, Jollimore J, Lachowsky N, Nisenbaum R, Ogilvie G, Sauvageau C, Tan DHS, Burchell AN. Increases in human papillomavirus vaccine coverage over 12 months among a community-recruited cohort of gay, bisexual, and other men who have sex with men in Canada. *Vaccine*. 2022 Jun 9;40(26):3690-3700. doi: 10.1016/j.vaccine.2022.05.019. Epub 2022 May 13. PMID: 35577633.

7: Lapointe HR, Mwimanzi F, Cheung PK, Sang Y, Yaseen F, Umviligihozo G, Kalikawe R, Speckmaier S, Moran-Garcia N, Datwani S, Duncan MC, Agafitei O, Ennis S, Young L, Ali H, Ganase B, Omondi FH, Dong W, Toy J, Sereda P, Burns L, Costiniuk CT, Cooper C, Anis AH, Leung V,

Holmes DT, DeMarco ML, Simons J, Hedgcock M, Prystajeky N, Lowe CF, Pantophlet R, Romney MG, Barrios R, Guillemi S, Brumme CJ, Montaner JSG, Hull M, Harris M, Niikura M, Brockman MA, Brumme ZL. People with HIV receiving suppressive antiretroviral therapy show typical antibody durability after dual COVID-19 vaccination, and strong third dose responses. *J Infect Dis.* 2022 Jun 7:jjac229. doi: 10.1093/infdis/jjac229. Epub ahead of print. PMID: 35668700; PMCID: PMC9214159.

8: Reddon H, Socias ME, Justice A, Cui Z, Nosova E, Barrios R, Fairbairn N, Marshall BDL, Milloy MJ. Periods of Homelessness Linked to Higher VACS Index Among HIV-Positive People Who Use Drugs. *AIDS Behav.* 2022 Jun;26(6):1739-1749. doi: 10.1007/s10461-021-03524-1. Epub 2022 Jan 22. PMID: 35064852; PMCID: PMC9150923.

9: Khatra J, Sang JM, Wang C, Bacani N, Lachowsky NJ, Grennan T, Burchell AN, Lal A, Roth E, Hogg R, Card K, Moore D. Longitudinal uptake of the human papillomavirus vaccine among gay, bisexual and other men who have sex with men in British Columbia, Canada 2012-2019. *Sex Transm Infect.* 2022 Jun;98(4):302-306. doi: 10.1136/sextrans-2020-054871. Epub 2021 Aug 16. PMID: 34400578.

10: Tattersall T, Tam C, Moore D, Wesseling T, Grieve S, Wang L, Bacani N, Montaner JSG, Hogg RS, Barrios R, Salters K. Healthcare and treatment experiences among people diagnosed with HIV before and after a province-wide treatment as prevention initiative in British Columbia, Canada. *BMC Public Health.* 2022 May 21;22(1):1022. doi: 10.1186/s12889-022-13415-2. PMID: 35597938; PMCID: PMC9123764.

11: Vorobyova A, Marante A, Cardinal C, Magagula P, Lyndon S, Braley M, Inglis K, Parashar S. Finding the Balance: Embracing the Two-Eyed Seeing Approach to Understand what Cultural Safety in Care Means to Older Adults Living with HIV. *J Appl Gerontol.* 2022 May 17:7334648221100803. doi: 10.1177/07334648221100803. Epub ahead of print. PMID: 35582747.

12: Vorobyova A, Braley MS, Burgess H, Grieve S, Lyndon S, Wesseling T, Parashar S. Depressive symptoms among people living with HIV in permanent supportive housing: Findings from a community-based participatory study in Vancouver, Canada. *J Community Psychol.* 2022 May 17. doi: 10.1002/jcop.22871. Epub ahead of print. PMID: 35579573.

13: Mwimanzi F, Lapointe HR, Cheung PK, Sang Y, Yaseen F, Umvilighozo G, Kalikawe R, Datwani S, Omondi FH, Burns L, Young L, Leung V, Agafitei O, Ennis S, Dong W, Basra S, Lim LY, Ng K, Pantophlet R, Brumme CJ, Montaner JSG, Prystajeky N, Lowe CF, DeMarco ML, Holmes DT, Simons J, Niikura M, Romney MG, Brumme ZL, Brockman MA. Older adults mount less durable humoral responses to two doses of COVID-19 mRNA vaccine, but strong initial responses to a third dose. *J Infect Dis.* 2022 May 11:jjac199. doi: 10.1093/infdis/jjac199. Epub ahead of print. PMID: 35543278; PMCID: PMC9129202.

14: Tisthammer KH, Solis C, Orcales F, Nzerem M, Winstead R, Dong W, Joy JB, Pennings PS. Assessing in vivo mutation frequencies and creating a high-resolution genome-wide map of fitness costs of Hepatitis C virus. *PLoS Genet.* 2022 May 2;18(5):e1010179. doi: 10.1371/journal.pgen.1010179. PMID: 35500034; PMCID: PMC9113599.

15: Moore DM, Kremer H, Wang L, Lepik KJ, Li J, Salters K, Montaner JSG, Tam C, Kling R, Bharmal A, Goodison K, Pakhomova T, Barrios R. Evaluation of a Public Health Referral System to Re-Engage Individuals Living With HIV Who Have Interrupted Antiretroviral Therapy in British Columbia, Canada. *J Acquir Immune Defic Syndr*. 2022 May 1;90(1):33-40. doi: 10.1097/QAI.0000000000002914. PMID: 35013088.

16: Moher M, Erickson M, Black P, Price M, Fraser C, Norman WV, Guillemi S, Pick N, Elwood Martin R. Improving Post-Release Care Engagement for People Living with HIV Involved in the Criminal Justice System: A Systematic Review. *AIDS Behav*. 2022 May;26(5):1607-1617. doi: 10.1007/s10461-021-03513-4. Epub 2021 Oct 27. PMID: 34705154.

17: McClean AR, Law MR, Harrison M, Bansback N, Gomes T, Tadrous M. Uptake of biosimilar drugs in Canada: analysis of provincial policies and usage data. *CMAJ*. 2022 Apr 19;194(15):E556-E560. doi: 10.1503/cmaj.211478. PMID: 35440506; PMCID: PMC9035299.

18: King EM, Kaida A, Mayer U, Albert A, Gormley R, de Pokomandy A, Nicholson V, Cardinal C, Islam S, Loutfy M, Murray MCM. Brief Report: Undertreated Midlife Symptoms for Women Living With HIV Linked to Lack of Menopause Discussions With Care Providers. *J Acquir Immune Defic Syndr*. 2022 Apr 15;89(5):505-510. doi: 10.1097/QAI.0000000000002897. PMID: 34954716.

19: Nosyk B, Min JE, Pearce LA, Zhou H, Homayra F, Wang L, Piske M, McCarty D, Gardner G, O'Briain W, Wood E, Daly P, Walsh T, Henry B. Development and validation of health system performance measures for opioid use disorder in

British Columbia, Canada. *Drug Alcohol Depend*. 2022 Apr 1;233:109375. doi: 10.1016/j.drugalcdep.2022.109375. Epub 2022 Feb 24. PMID: 35231716.

20: Brockman MA, Mwimanzi F, Lapointe HR, Sang Y, Agafitei O, Cheung PK, Ennis S, Ng K, Basra S, Lim LY, Yaseen F, Young L, Umvilighozo G, Omondi FH, Kalikawe R, Burns L, Brumme CJ, Leung V, Montaner JSG, Holmes D, DeMarco ML, Simons J, Pantophlet R, Niikura M, Romney MG, Brumme ZL. Reduced Magnitude and Durability of Humoral Immune Responses to COVID-19 mRNA Vaccines Among Older Adults. *J Infect Dis*. 2022 Apr 1;225(7):1129-1140. doi: 10.1093/infdis/jiab592. PMID: 34888688; PMCID: PMC8689804.

21: Mayo NE, Brouillette MJ, Nadeau L, Dendukuri N, Harris M, Smaill F, Smith G, Thomas R, Fellows LK; Investigators from the Positive Brain Health Now Study. A longitudinal view of successful aging with HIV: role of resilience and environmental factors. *Qual Life Res*. 2022 Apr;31(4):1135-1145. doi: 10.1007/s11136-021-02970-7. Epub 2021 Aug 30. PMID: 34460077.

22: Thompson KA, Blank G, Toy J, Moore DM, Lachowsky N, Bacani N, Zhang W, Sereda P, Lima VD, Barrios R, Montaner JSG, Hull MW. Prevalence and incidence of hepatitis C infection amongst men who have sex with men in a population-based pre-exposure prophylaxis program in British Columbia, Canada. *Liver Int*. 2022 Jul;42(7):1528-1535. doi: 10.1111/liv.15237. Epub 2022 Mar 28. PMID: 35274805.

23: Umvilighozo G, Mann JK, Jin SW, Mwimanzi FM, Hsieh HSA, Sudderuddin H, Lee GQ, Byakwaga H, Muzoora C, Hunt PW, Martin JN, Haberer JE, Karita E, Allen S, Hunter E, Brumme ZL and Brockman MA*. Attenuated HIV-1 Nef But Not Vpu Function in a Cohort of Rwandan Long-Term

Survivors. *Front. Virol.*, 16 June 2022 | <https://doi.org/10.3389/fviro.2022.917902>

24: Miller RL, McLaughlin A, Liang RH, Harding J, Wong J, Le AQ, Brumme CJ, Montaner JSG, Joy JB. 2022. Phylogenetic prioritization of HIV-1 transmission clusters with viral lineage-level diversification rates. *Evol Med Public Health*. 2022 Jul 22;10(1):305-315. doi: 10.1093/emph/eoac026. PMID: 35899097; PMCID: PMC9311310.

25: Berlin GW, Fulcher K, Taylor K, Nguyen T, Montiel A, Moore D, Hull M, Lachowsky NJ. Links between Childhood Abuse, Insidious Trauma, and Methamphetamine Use across the Lifespan among Gay, Bisexual, and Other Men Who Have Sex with Men: A Qualitative Analysis. *J Homosex*. 2022 Jun 27:1-21. doi: 10.1080/00918369.2022.2089075. Online ahead of print. PMID: 35759650

26: Moore DM, Kremer H, Wang L, Lepik KJ, Li J, Salters K, Montaner, J, Corneil T, Barrios R. Evaluation of a public health referral system to re-engage individuals living with HIV who have interrupted antiretroviral therapy in British Columbia, Canada. *J Acquir Immune Defic Syndr*. 2022 May 1;90(1):33-40. doi: 10.1097/QAI.0000000000002914. PMID: 35013088

27: Patterson S, Nicholson V, Gormley R, Carter A, Logie CH, Closson K, Ding E, Trigg J, Li J, Hogg R, de Pokomandy A, Loutfy M, Kaida A. Impact of Canadian human immunodeficiency virus non-disclosure case law on experiences of violence from sexual partners among women living with human immunodeficiency virus in Canada: Implications for sexual rights. *Womens Health (Lond)*. 2022 Jan-Dec; 18:17455065221075914. doi: 10.1177/17455065221075914. PMID: 35168410; PMCID: PMC8855424.

28: Hernandez Cordero AI, Yang CX, Yang J, Horvath S, Shaipanich T, Maclsaac J, Lin DTS, Kobor MS, Guillemi S, Harris M, Lam W, Lam S, Montaner J, Man SFP, Sin DD, Leung JM. Airway aging and methylation disruptions in HIV-associated chronic obstructive pulmonary disease. *Am J Respir Crit Care Med*. 2022 Apr 15; doi: 10.1164/rccm.202106-14400

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MONTHLY REPORTS**

December 2021 (released April 2022)

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<http://bccfe.ca/sites/default/files/uploads/publications/centredocs/covid-19-vaccine-update-apr-22.pdf>



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