

2023 AGENDA

Wednesday 29 November		
JOINT SESSION		
Coffee Cart located on Mezzanine Area		
1:00pm – 2:00pm	Event Open – Registration & Light Refreshments Location: Auditorium – Ground	
2:00pm – 2:30pm	Welcome Address - ACH4 & ACHV-mHIVE WAD Professor Tony Cunningham, Professor Thomas Tu & TBC Location: Auditorium – Ground	
2:30pm – 3:30pm	Keynote Presentation Hepatitis Plenary > Professor Dieter Glebe National Reference Centre for Hepatitis B and D viruses Institute of Medical Virology, Germany <i>Talk Title: Back to the future: Reconstructing the evolutionary history of Hepatitis B Viruses</i> Chair: Professor Peter Revill Location: Auditorium – Ground	
3:30pm – 4:30pm	Abstract Session > ACH4 New Investigator Award Presentations Chair: A/Professor Thomas Tu & Dr Chaturaka Rodrigo Location: Auditorium – Ground	
3:30pm – 3:45pm	Harout Ajoyan Inhibition of cellular factor TM6SF2 suppresses secretion pathways of Hepatitis B, Hepatitis C and Hepatitis D viruses	ABSTRACT #1
3:45pm – 4pm	Eloise Kershler Imprinting of broadly neutralising anti-HCV antibodies	ABSTRACT #2
4:00pm – 4:15pm	Henrik Zhang Characterization of Hepatitis B infected cells which retain covalently closed circular DNA during liver turnover	ABSTRACT #3
4:15pm – 4:30pm	Marcel Doerflinger Developing a functional cure for HTLV1 in a humanized mouse model	ABSTRACT #4
4:30pm – 4:45pm	BRIEF BREAK	
4:45pm - 5:15pm	National Guest Speaker > HTLV	



	Dr Cath Chamberlain Professor of Indigenous Health Melbourne School of Population and Global Health Chair: Professor Damian Purcell & Dr Sarah Bae Location: Auditorium – Ground	
5:15pm – 6:00pm	FREE TIME	
6:00pm – 9:00pm	Networking Event Onsite: The Doherty Institute Light mobile meal - Cocktail Style; Canapes & Beverages Location: Auditorium Area & Lobby – Ground	
Thursday 30 November		
Coffee Cart located on Mezzanine Area		
8:30am – 9:20am	ECR Breakfast Workshop Session Consumer Engagement Facilitated by Dr Kirstie Bertram with speakers including Prof Andrew Harman, A/Prof Thomas Tu & A/Prof Jonathan Li. Breakfast will be served in the room Location: Mezzanine Seminar rooms	
JOINT SESSION		
9:30am – 10am	National Guest Speaker > COVID-19 Professor Katherine Kedzierska, The University of Melbourne Head of the Human T cell Laboratory in the Department of Microbiology and Immunology at the Doherty Institute Chair: Dr Michael Roche Location: Auditorium – Ground	
10:00am – 10:15am	MORNING TEA Location: Auditorium Area & Lobby – Ground	

CONCURRENT SESSION		
10:15am – 12:00pm	Breakout 1 – Abstract Session > Hepatitis B and C Session 1 <i>Chair: Dr Arun Abayasingam & A/Professor Mark Douglas</i> Location: Mezzanine Seminar Rooms	
10:15am – 10:30am	Arunasingam Abayasingam Immunogenicity and Neutralisation Sensitivity of Hepatitis C Virus Transmitted/Founder Variants: Implications for Vaccine Design	ABSTRACT #5
10:30am – 10:45am	Haiyi Ye Guiding computational design of HCV E2 antigens to elicit broadly neutralising antibodies	ABSTRACT #6
10:45am – 11:00am	Ahmed Abdul Quadeer Direct-acting antiviral resistance of Hepatitis C virus is promoted by epistasis	ABSTRACT #7
11:00am – 11:15am	Jordan Stoddart Case study of reinfection despite broadly neutralising antibodies (HCV)	ABSTRACT #8
11:15am – 11:30am	Ahmed Abdul Quadeer HCV E1 influences the fitness landscape of E2 and may enhance escape from E2-specific antibodies	ABSTRACT #9
11:30am – 11:45am	Sarah Su Characterisation of broad neutralising public repertoire antibodies in patients infected with hepatitis C virus	ABSTRACT #10
11:45am – 12pm	Elham Jamali A systematic comparison of neutralising antibody potency among four different RNA viruses	ABSTRACT #11
12pm – 12:15pm	Xiaonan Zhang Capsid-Antibody-Complexes as a novel biomarker for assessment of intrahepatic inflammation in chronic hepatitis B	ABSTRACT #12
10:15am – 12:15pm	Breakout 2 – Abstract Session > HIV – Transmission & Treatment <i>Chair: Dr Anna Hearps & Dr Paula Ceva</i> Location: Auditorium Area – Ground	
10:15am – 10:30am	Andrew Harman New insights into the dynamics of sexual transmission of HIV	ABSTRACT #13
10:30am – 10:45am	Paula Ellenberg Activity of Lactic acid isomers against non-optimal vaginal bacteria to prevent HIV transmission	ABSTRACT #14
10:45am – 11:00am	Freja Warner van Dijk Characterising plasmacytoid and myeloid AXL+ SIGLEC6+ dendritic cells responses in initial HIV infection	ABSTRACT #15
11:00am – 11:15am	Bethany Horsburgh Comparison of HIV long-range sequencing methods for routine use in a diagnostic setting	ABSTRACT #16
11:15am – 11:30am	Thomas O'Neil An in situ quantitative map of initial immune cell dynamics during human colorectal HIV transmission	ABSTRACT #17

11:30am – 11:45am	Erica Vine HIV interactions with colorectal macrophages in early infection	ABSTRACT #18
11:45am – 12:00pm	Gordon Xu Development of a biocompatible anti-HIV microbicide hydrogel for sustainable release against HIV	ABSTRACT #19
12pm – 12:15pm	Felicity Han Novel Delivery Systems for Oral Administration of Enfuvirtide: New Treatment Options for HIV/AIDS	ABSTRACT #20
12:15pm – 1:00pm	LUNCH Location: Auditorium Area – Ground	
CONCURRENT SESSION		
1:00pm – 3:00pm	Breakout 1 – Abstract Session > Hepatitis B and C Session 2 Chair: Professor Dieter Glebe & Dr Purnima Bhat Location: Mezzanine Seminar Rooms	
1:00pm – 1:15pm	Laura McCoullough CRISPR-Cas13b-mediated suppression of hepatitis B replication and antigen expression	ABSTRACT #21
1:15pm – 1:30pm	Gabriela Wu Evidence for HBeAg expression from integrated Hepatitis B Virus DNA	ABSTRACT #22
1:30pm – 1:45pm	Sarah Bae The EMPOWER-B study – predicting Hepatitis B cure or relapse after treatment cessation	ABSTRACT #23
1:45pm – 2pm	Zak Janetzki Investigating editing of HBV DNA in vitro and in vivo using a CRISPR/Cas9 Base Editor approach	ABSTRACT #24
2:00pm – 2:15pm	Delgerbat Boldbaatar A sensitive PCR assay to precisely quantify Hepatitis B virus covalently closed circular (ccc) DNA	ABSTRACT #25
2:15pm – 2:30pm	Dishen Corey Chen Memory natural killer cells, the silent guardians protecting against hepatitis B virus	ABSTRACT #26
2:30pm – 2:45pm	Dong Li Novel Digital Droplet Inverse PCR Assay Shows that Natural Clearance of Hepatitis B Infection is Associated with Fewer Viral Integrations	ABSTRACT #27
2:45pm - 3pm	Mylisa Vu HepBCommunity.org: a global online forum dedicated to supporting people with hepatitis B	ABSTRACT #28
1:00pm – 3:00pm	Breakout 2 – Abstract Session > HIV Pathogenesis and Cure Chair: Dr Michael Roche & Dr Gabriel Duette Location: Auditorium – Ground	
1:00pm – 1:15pm	Le Wang Promoting Extrinsic Apoptosis to Diminish Latent HIV Reservoir in Vivo	ABSTRACT #29
1:15pm – 1:30pm	Olivia Wilhelm	ABSTRACT #30

	Weaponising anti-Env antibodies to eliminate HIV-infected cells	
1:30pm – 1:45pm	Mehrnaz Bakhti Novel anti-HIV bovine V-region monoclonal antibodies	ABSTRACT #31
1:45pm – 2:00pm	Behnaz Heydarchi mRNA delivery of an ultra-potent HIV broadly neutralising antibody	ABSTRACT #32
2:00pm – 2:15pm	Morgane Brunton-O'Sullivan Enhancing elimination of HIV-infected macrophages using modified anti-Envelope antibodies	ABSTRACT #33
2:15pm – 2:30pm	Hafsa Rana A novel strategy to eradicate HIV using CD8 CAR T cells	ABSTRACT #34
2:30pm – 2:45pm	Samantha Cronin The Tuberculosis-Associated Microenvironment Promotes Viral Persistence in People Living with HIV and Tuberculosis	ABSTRACT #35
2:45pm – 3:00pm	Marwah Al-kaabi Epistatic interaction between ERAP2 and HLA modulates viral adaptation and HIV-1 disease outcome	ABSTRACT #36
3:00pm – 3:30pm	AFTERNOON TEA Location: Auditorium Area – Ground	

CONCURRENT SESSION		
3:30pm – 5:00pm	Abstract Session > HTLV & COVID-19 <i>Chair: Dr Margaret Littlejohn and Dr Marcel Doerflinger</i> Location: Mezzanine Seminar Rooms	
3:30pm – 3:45pm	Ashley Hiron Chronic inflammation and T cell exhaustion in HTLV-1c infection is mediated by defective proviruses retaining antisense hbz gene	ABSTRACT #37
3:45pm – 4:00pm	Tiana Wang Development of siRNA therapeutics targeting Human T-cell Leukaemia Virus Type-1 (HTLV-1)	ABSTRACT #38
4:00pm – 4:15pm	Lewis Williams CRISPR as a novel diagnostic tool – the HTLV model.	ABSTRACT #39
4:15pm – 4:30pm	Julie McAuley Identifying the neurological impact of COVID-19 in a mouse of model of SARS-CoV-2 infection	ABSTRACT #40
4:30pm – 4:45pm	David Griffin Neutralising antibody responses to SARS-CoV-2 Variants After 2 or 3 doses of COVID-19 Vaccine in People with HIV	ABSTRACT #41
4:45pm – 5:00pm	Alexander Underwood Neutralizing antibody and CD8+ T cell responses following BA.4/5 bivalent COVID-19 booster	ABSTRACT #42
3:30pm – 5:30pm	Breakout 2 – Abstract Session > Modulating Latent HIV <i>Chair: Dr Kirstie Bertram & Eunok Lee</i> Location: Auditorium – Ground	
3:30pm – 3:45pm	Kiho Tanaka Monovalent and bivalent SMAC mimetics reverse HIV latency and decreases the HIV reservoir	ABSTRACT #43
3:45pm – 4:00pm	Paula Ceva Targeted mRNA delivery to T cells using lipid nanoparticles: a platform for the delivery of HIV cure therapeutics to the latent reservoir	ABSTRACT #44
4:00pm – 4:15pm	Chantelle Ahlenstiel Lipid nanoparticle delivery of promoter-targeted siRNA for a functional HIV cure	ABSTRACT #45
4:15pm – 4:30pm	Esinam Agbosu In vitro HIV-1 silencing by promoter-targeting siRNAs	ABSTRACT #46
4:30pm – 4:45pm	Priyank Rawat Suppression of HIV via mRNA-encoded CRISPR tools and lipid nanoparticle delivery	ABSTRACT #47
4:45pm – 5:00pm	Rory Shepherd Methylseleninic acid synergises with AZD5582 and Pep005 to reactivate latent HIV in vitro and ex vivo	ABSTRACT #48
5:00pm – 5:15pm	Katie Fisher Emergence of genetically-distinct HIV-1 populations is associated with transient virological control during analytical interruption of antiretroviral therapy	ABSTRACT #49
5:15pm – 5:30pm	Bridget Fisher Potent HIV latency reversal by lipid nanoparticles encapsulating HIV Tat mRNA	ABSTRACT #50

5:30pm – 7:00pm	FREE TIME	
7:00pm – 11:00pm	<p>Offsite: Gala Dinner Event</p> <p>University House 112 Professors Walk, The University of Melbourne VIC 3052, Australia.</p> <p>3 course meal & entertainment! The University House is approximately a 20-minute walk from the Larwill. For directions to University House, scan this QR code and add your start location on Google Maps:</p> <div style="display: flex; align-items: center;">   </div> <p>**Please note. all guests are expected to attend (as always), this is included in your registration fee and has been booked based on registration numbers**</p>	

Friday 1 December		
World AIDS Day 2023 Community Event Hosted by Living Positive Victoria Theme: "Inclusion. Respect. Equity."		
JOINT SESSION		
Coffee Cart located on Mezzanine Area		
9.00am – 9.30am	Welcome World AIDS Day Official Community Launch Location: Auditorium – Ground	
9.30am – 10:30am	Welcome from LPV President: Craig Brennan Opening address by keynote speaker: The Hon. Mary- Anne Thomas MLA Minister for Health, Minister for Health Infrastructure, and Minister for Medical Research Panel Introduction Two positive speakers reflect on the issue of inclusion of PLHIV Topic: "Why inclusion matters" – speakers will talk on how including PLHIV in decisions about research, health care, access in central to equitable outcomes and a better understanding of the work researchers, health providers and other offer: Carlos	
10.30am – 11.00am	MORNING TEA Kindly supported by the Department of Health and Human Services and ViiV Healthcare. <i>HIV Science as Art display with presentation by Daniel Cordner (10.35 to 10.55) in reception lobby area – proudly sponsored by ViiV Healthcare.</i> Location: Ground Floor	
11.00am – 12.00pm	Community Forum Brief introduction by LPV President or delegate Community Forum – Panel discussion moderated by Sara Graham with panellists: Valentina, Daniel, Vicky, and Liz . Topic for discussion: "Equity for all"	

12.00pm – 1.00pm	LUNCH – Kindly supported by ViiV Healthcare 12:30 start: Gilead Young Emerging Scientists (YES) Fellowship announcement by Hailey Cheng (2023 Recipient) and video. Location: Auditorium Area – Ground	
1.00pm – 2.10pm	Welcome & Keynote Introduction: Professor Paul Gorry, Deputy Director Doherty Institute Keynote Presentation Clinical Perspectives – A/Prof Jonathan Li (Director of the Harvard/Brigham Virology Specialty Laboratory, Director of the Harvard University Center for AIDS Research Clinical Core) <i>Plenary talk Title: “Unsung Heroes: HIV Post-Treatment Controllers and the Dream of Living without Antiretroviral Therapy”</i> <i>Chair: Professor Paul Gorry, Deputy Director of the Doherty Institute</i>	
2:10pm – 2.40pm	Social Perspectives – Dr Dean Murphy (ARCSHS at La Trobe University) Topic: “Inclusion in a time of undetectability”	
2.40pm – 3.25pm	Community Perspectives: Panel Discussion moderated by Beau Newham . Panellists: Eric, Deodata, and Adam . Topic: “Respect: what respect looks like for PLHIV”	
3.25pm – 3.45pm	BREAK 3.25 to 3.40 Book launch: <u>Beyond & Behind The Faces of HIV and AIDS Book Launch</u> <i>In conversation with three Australian contributing writers and HIV advocates: Susan Paxton, Stevie Lee Walsh and Heather Ellis.</i> <i>Beyond and Behind the Faces of HIV and AIDS is a compilation of 35 deeply personal stories by people living with HIV from around the world.</i> Location: Auditorium Area – Ground	
3:45pm – 4:45pm	Oral Abstract Session: ViiV Young Investigator Award Presentations Chair: Sarah Byrnes Location: Auditorium – Ground	
3:45pm – 4:00pm	Eunok Lee Inducing CD8 T-cell-mediated clearance of HIV-infected cells by targeting hyperconserved viral protein regions	ABSTRACT #51
4:00pm – 4:15pm	Janna Jamal Eddine HIV transcription persists in the brain of virally suppressed people with HIV	ABSTRACT #52

4:15pm – 4:30pm	Laura Rikard-Bell Using BH3-mimetics to enhance apoptosis of HIV-infected macrophages to facilitate HIV cure	ABSTRACT #53
4:30pm – 4:45pm	Michael Moso Potent HIV reactivation with CRISPR activation using multiplexed guide RNA and lipid nanoparticle delivery	ABSTRACT #54
4:45pm – 5:00pm	Award Presentation & Event Official Closing - ACH4-mHIVE WAD ACH4 Director – Professor Tony Cunningham, ACHV President – A/Professor Thomas Tu & mHIVE Representative– Professor Melissa Churchill	
5:00pm	DEPART	

THANK YOU FOR ATTENDING THE 2023 ACH4-LPV,mHIVE CONFERENCE!