

2025 PROGRAM AGENDA

Wednesday 25 June		
JOINT SESSION		
Coffee Cart > located in the Foyer Area, Level 1		
11:00am – 2:00pm	Event Open – Registration & Lunch Registration Location: Seaview Room, Level 1	
12:00pm – 1:00pm	Lunch Location: Arden Lounge, Ground Floor – Cold Buffet	
2:00pm – 2:30pm	Welcome Address - ACH4 & ACHV Professor Tony Cunningham & Professor Thomas Tu Location: Seaview Room, Level 1	
2:30pm – 3:30pm	Keynote Presentation Hepatitis Plenary > Professor Mansun Law Talk Title: Hepatitis C Virus Immune Escape and Persistence Chair: Professor Rowena Bull Location: Seaview Room, Level 1	
3:30pm – 3:45pm	Brief Break	
3:45pm – 5:00pm	Abstract Session > Hepatitis C Session 1 Chairs: Professor Rowena Bull & Dr Arun Abayasingam Location: Seaview Room, Level 1	
3:45pm – 4:00pm	Jordan Stoddart Limitations of neutralising antibodies in an HCV reinfection case study	ABSTRACT #1
4:00pm – 4:15pm	Eloise Kershler Imprinting of broadly neutralising anti-HCV antibodies to inform vaccine design	ABSTRACT #2
4:15pm – 4:30pm	Haiyi Ye AlphaFold3-Enabled Discovery of Early Infection Antibody Targets in an HCV Super Clearer	ABSTRACT #3
4:45pm – 5:00pm	Joey McGregor Developing a mRNA-based HCV vaccine	ABSTRACT #4
5:00pm – 5:15pm	Branka Grubor-Bauk Induction of liver-resident memory T cell immunity against HCV by mRNA vaccination	ABSTRACT #5



5:15pm – 6:30pm	FREE TIME	
5:15pm – 6:15pm	ACH4 Executive Meeting Location: Seaview Room, Level 1	
6:30pm – 9:00pm	Networking Event Light mobile meal - Cocktail Style; Canapes & Beverages Location: Arden Lounge, Ground Floor	
Thursday 26 June		
Coffee Cart > located in the Foyer Area, Level 1		
Breakfast > Marra, Ground Floor, Opens at 7am		
8:00am – 8:50am	ECR Breakfast Workshop Session Consumer Engagement Facilitated by Sr Stephen Kent Breakfast banquet will be served in the room Location: Seaview Room, Level 1	
JOINT SESSION		
9:00am – 10:00am	Keynote Presentation HIV Plenary > Associate Professor Marta Rodriguez Garcia Talk Title: Innate immune control of HIV infection in the female genital tract Chair: Professor Andrew Harman Location: Seaview Room, Level 1	
10:00am – 10:15am	MORNING TEA Location: Foyer Area, Level 1	



CONCURRENT SESSION

10:15am – 12:00pm	Breakout Session 1 > Hepatitis C (cont.) & Hepatitis B Chairs: A/Professor Chaturaka Rodrigo & Dr Melanie Walker Location: Seabreeze Room, Level 1	
10:15am – 10:30am	Inam Ulhaqazad Landscape of epitopes targeted by T cells during Hepatitis C virus infection	ABSTRACT #6
10:30am – 10:45am	Jean Pierre Ndabakuranye Conductometric biosensing platform for early diagnosis of Hepatitis B and C	ABSTRACT #7
10:45am – 11:00am	Bethany Horsburgh Implementation of a novel tiling PCR for use in HCV diagnostics	ABSTRACT #8
11:00am – 11:15am	Delgerbat Boldbaatar A sensitive PCR assay to precisely quantify hepatitis B virus covalently closed circular (ccc)DNA	ABSTRACT #9
11:15am – 11:30am	Dong Li Investigating HBV DNA integration and its role in genomic instability through HBx expression	ABSTRACT #10
11:30am – 11:45am	Bobby Boumelhem A circulating biomarker of myofibroblasts is elevated in HBV infection but lacks a clear association with fibrosis	ABSTRACT #11
11:45am – 12:00pm	Harout Ajoyan High-throughput pipeline detecting viral integration reveals evidence for oncogenic insertional mutagenesis in domestic cat hepatitis B virus-associated hepatocellular carcinoma	ABSTRACT #12
10:15am – 12:00pm	Breakout Session 2 > HIV – Transmission Chairs: Dr Kirstie Bertram & Dr Lindi Masson Location: Seaview Room, Level 1	
10:15am – 10:30am	Paula Ellenberg Inhibitory activity of lactic acid against <i>L. iners</i> and BV-associated vaginal bacteria to prevent HIV transmission	ABSTRACT #13
10:30am – 10:45am	Brianna Jesaveluk Lactic acid, a key <i>Lactobacillus</i> metabolite, reduces HIV internalisation and migration through the cervicovaginal epithelial barrier	ABSTRACT #14
10:45am – 11:00am	Freja Warner van Dijk Understanding Inflammatory Mononuclear Phagocyte Heterogeneity in Human Anogenital Tissue	ABSTRACT #15
11:00am – 11:15am	Lara Sarkawt Epithelial dendritic cells: interactions with HIV in human penile mucosa	ABSTRACT #16



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11:15am – 11:30am	Daniel Buffa Role of Epithelial Dendritic Cells in HIV Transmission and Their Potential as Vaccine Delivery Vehicles	ABSTRACT #17
11:30am – 11:45am	Thomas O’Neil An in situ quantitative map of mononuclear phagocyte interactions with HIV across anogenital mucosal tissues using high parameter spatial proteomic techniques	ABSTRACT #18
12:00pm – 1:00pm	LUNCH Location: Marra, Ground Floor	
12:00pm – 1:00pm	ACHV AGM Working Lunch Location: Seaview Room, Level 1 (Banquet Lunch)	
CONCURRENT SESSION		
1:15pm – 3:00pm	Breakout 1 – Abstract Session > Hepatitis B Chairs: Professor Peter Revill & A/Professor Thomas Tu Location: Seabreeze Room, Level 1	
1:15pm – 1:45pm	National Guest Speaker > Hepatitis - Community Andrea Pizzie, General Manager & Emily Skillin, HepLink Program Manager, Hepatitis Australia Talk Title: The Community response to viral hepatitis	
1:45pm – 2:00pm	Sarah Bae Developing personalized treatment pathways for Hepatitis B using novel assays and fine needle liver aspirates	ABSTRACT #19
2:00pm – 2:15pm	Laura McCoullough Developing CRISPR-Cas13b as a novel therapy for chronic hepatitis B virus infection	ABSTRACT #20
2:15pm – 2:30pm	Zak Janetzki Editing of HBV DNA and RNA in vitro and in vivo using A CRISPR/Cas9 Base Editor and CRISPR/Cas13 approach	ABSTRACT #21
2:30pm – 2:45pm	Xiaonan Zhang (Presenting Author: Jack Bell) Capsid-Antibody-Complexes (CACs): an early indicator of liver inflammation in chronic hepatitis B	ABSTRACT #22
2:45pm – 3:00pm	Dishen Chen Unleashing Immune Memory: Characterising HBV-Targeting Memory NK Cells for Next-Generation Cell Therapies	ABSTRACT #23
1:15pm – 3:00pm	Breakout 2 – Abstract Session > HIV Therapy and Cure Chairs: Dr Paula Cevaál & Dr Rory Shepphard Location: Seaview Room, Level 1	



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1:15pm – 1:45pm	National Guest Speaker > HIV Dr Jillian Lau – Talk Title: HIV cure in Australasia: Clinical Trials and Community Engagement	
1:45pm – 2:00pm	Hannah King CRISPR Cas13b-mediated knockdown of PD-1 mRNA: an alternative delivery strategy for immune checkpoint inhibitors	ABSTRACT #24
2:00pm – 2:15pm	Le Wang Applying Pro-apoptotic Agents to Combat Chronic HIV Infection in Vivo	ABSTRACT #25
2:15pm – 2:30pm	Bruce Wines The enhancement IgG hexamerisation through the H429F mutation enables potent complement killing of viral and cancer targets by otherwise inactive monoclonal antibodies	ABSTRACT #26
2:30pm – 2:45pm	Kezia Singgih Targeting Vδ2+ T cells to enhance immune mediated clearance of HIV-infected cells	ABSTRACT #27
2:45pm – 3:00pm	Hafsa Rana A novel strategy to eradicate HIV using CD8 CAR T cells	ABSTRACT #28
3:00pm – 3:30pm	AFTERNOON TEA Location: Foyer Area, Level 1	



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CONCURRENT SESSION		
3:00pm – 5:15pm	Breakout 1 – Abstract Session > HTLV Chairs: Dr Nick Vandegraaff & Dr Chantelle Ahlenstiel Location: Seabreeze Room, Level 1	
3:00pm – 3:30pm	Keynote Presentation HTLV Plenary > Professor Yorifumi Satou Talk Title: Mechanisms underlying HTLV-1 latency, persistence and pathogenesis	
3:30pm - 3:45pm	Melissa John Improving the Diagnosis and Monitoring of HTLV-1 in Australia	ABSTRACT #29
3:45pm - 4:00pm	Andleeb Hanif Promoter-Targeted siRNA as a Novel Therapeutic strategy for Oncogenic Viruses	ABSTRACT #30
4:00pm - 4:15pm	Natasha Jansz The HTLV-1c genomic landscape reveals host-virus interactions	ABSTRACT #31
4:15pm - 4:30pm	Marcel Doerflinger Combination antiretroviral therapy and MCL-1 inhibition mitigate HTLV-1 infection in vivo	ABSTRACT #32
4:30pm – 4:45pm	Tiana Wang Development of siRNA therapeutics targeting Human T-cell Leukaemia Virus Type-1 (HTLV-1) infection	ABSTRACT #33
4:45pm – 5:00pm	Damian Purcell Towards a universal mRNA-LNP vaccine to prevent HTLV-1 infection and disease	ABSTRACT #34
5:00pm – 5:15pm	National Guest Speaker: HTLV-1 Update Associate Professor Lloyd Einsiedel Talk Title: Report from the NACCHO HTLV research	
3:00pm – 5:00pm	Breakout 2 – Abstract Session > COVID-19 Chairs: Prof Gilda Tachedjian & A/Prof Branka Grubor-Bauk Location: Seaview Room, Level 1	
3:00pm - 3:15pm	Professor Tony Cunningham Director, ACH4 COVID Situation and Vaccine Update	
3:15pm – 3:30pm	National Guest Speaker – COVID Dr Chan Phetsouphanh Talk Title: Unravelling Long COVID- Immune Profiling and Insights into driver mechanisms	
3:30pm – 3:45pm	Chantelle Ahlenstiel Development of Intranasal Antiviral RNA Therapeutics targeting SARS-CoV-2 (DARTS)	ABSTRACT #35



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3:45pm – 4:00pm	Stephen Kent COVID-19 booster vaccination in 2025 – when, how and why	ABSTRACT #36
4:00pm – 4:15pm	Stephen Kent Blood Distribution and degradation of SARS-CoV-2 Lipid Nanoparticle mRNA Vaccine in Humans	ABSTRACT #37
5:00pm – 6:30pm	FREE TIME	
6:30pm – 10:30pm	Onsite: Gala Dinner Event Location: Seaview Room, Level 1 Pre-dinner drinks, followed by a 3-course meal	

Friday 27 June		
Coffee Cart > located in the Foyer Area, Level 1		
Breakfast > Marra, Ground Floor, Opens at 7am		
JOINT SESSION		
9:00am – 10:30am	Abstract Session > HIV Latency and Pathogenesis Chairs: Dr Bruce Wines & Dr Gabriel Duette Location: Seabreeze Room, Level 1	
9:00am – 9:30am	National Guest Speaker – HIV Community Talk Dr John Rule, NAPWHA & Kirsty Machon, Positive Women Victoria Talk Title: What are the research interests of people living with HIV?	
9:30am – 9:45am	Paula Cevaal Exploring CRISPR-based epigenetic tools for the reversal or promotion of HIV latency	ABSTRACT #38
9:45am – 10:00am	Bridget Fisher Improving the potency and safety of Tat-LNPs for HIV latency reversal	ABSTRACT #39
10:00am – 10:15am	Rory Shepherd Optimising long read sequencing of cell associated HIV RNA to understand latency reversal	ABSTRACT #40
10:15am – 10:30am	Josefina Marin-Rojas A novel IMMunoinformatics Analysis Pipeline (IMAP) identifies genetically-conserved and immunogenic peptides found in rebound HIV-1 during analytical treatment interruption	ABSTRACT #41
10:30am – 11:00am	MORNING TEA Location: Foyer Area, Level 1	



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JOINT SESSION		
11:00am – 12:00pm	Abstract Session > CO-INFECTION Chairs: Dr Najla Nasr & Dr Bethany Horsburgh Location: Seabreeze Room, Level 1	
11:00am – 11:15am	Andrea Pereyra Casanova Characterising the HIV reservoir in people living with HIV and HCV after treatment for HCV	ABSTRACT #42
11:15am – 11:30am	Samantha Cronin The Tuberculosis-Associated Microenvironment Promotes Viral Persistence in People Living with HIV and Tuberculosis	ABSTRACT #43
11:30am – 11:45am	Jennifer Simpson Utilising multi-omics analysis to characterise HIV persistence at the site of HIV and Tuberculosis coinfection	ABSTRACT #44
11:45am – 12:00pm	Professor Tony Cunningham Director, ACH4 Global HIV Research impacted by US Funding cut	
12:00pm – 1:00pm	LUNCH – Location: Marra, Ground Floor	
1:00pm – 2:00pm	Closing ceremony Award presentation EVENT CLOSE	
2:15pm	DEPART Buses Awaiting	

THANK YOU FOR ATTENDING THE 2025 ACH4 CONFERENCE