Day One: Wednesday, 23 June 2010

11:00 – 12:00  Registration, Check-in and Refreshments

12:00 – 13:00  Yarra Restaurant
Buffet Lunch

13:00 – 13:15  Marmion Room
Welcome –
Tony Cunningham (ACH²) and Michael Beard (ACHV)

13:15 – 14:00  HIV Plenary
Professor Mario Stevenson
Title: Counteracting Forces in the replication of HIV-1
Chair: Gilda Tachedjian

14:00 – 15:00  Combined Session 1
Virus Host Cell Interactions
Chair HIV: Damian Purcell
Chair Hepatitis: Nicholas Eyre

14:00 – 14:15  Joe Torresi
Differential Modulation of STAT/ SOCS Signaling in HBV/HCV-coinfection

14:15 – 14:30  Marina Alexander
The interplay between Chromatin, Tat and Splicing: Histone deacetylase (HDAC) inhibitor Trichostatin A rescues poor transcription from an HIV splice mutant.

14:30 – 14:45  Erin McCartney
The transcription factor STAT3 and regulation of HCV replication.

14:45 – 15:00  Jenny Anderson
Probing APOBEC3 restriction of early HIV-1 replication
15:00 – 15:30  
**Yarra Restaurant**  
**Afternoon Tea**

15:30 – 17:30  
**Marmion Room**

**Concurrent Session 2a**  
**HIV Entry and Intracellular Events**  
Chair 1: Paul Gorry  
Chair 2: Andrew Harman

15:30 – 15:45  
**Jasminka Sterjovski**
An altered and more efficient mechanism of CCR5 engagement contributes to macrophage tropism of CCR5-using HIV-1 Envelopes  
[70]

15:45 – 16:00  
**Paul Cameron**
Chemokine directed and spontaneous T cell migration facilitates latent HIV-1 infection in resting CD4+ T cells  
[10]

16:00 – 16:15  
**Stuart Turville**
HIV antennae on infected dendritic cells, represent fast rate, long distance means for membrane tethering prior to viral spread.  
[77]

16:15 – 16:30  
**Joey Lai**
Langerin oligomerisation enhances gp120 mediated binding of HIV-1.  
[40]

16:30 – 16:45  
**Paula Ellenberg**
Understanding the intracellular life-cycle of HIV-1 infection.  
[19]

16:45 – 17:00  
**Kylie Warren**
Cellular Factors and the Regulation of HIV-1 Replication.  
[79]

17:00 – 17:15  
**Candida da Fonseca Pereira**
Dynamics of viral proteins during the natural HIV-1 infection – insights from a biarsenical-tetracysteine fluorescent labeling method.  
[16]

17:15 – 17:30  
**Marcel Hijnen**
Maturation induces a structural reorganization of the HIV-1 GAG polyprotein  
[28]

15:30 – 17:15  
**Yarra Room**

**Concurrent Session 2b**  
**Hepatitis Immunology**  
Chair 1: Rose Ffrench  
Chair 2: Barb Cameron

15:30 – 15:45  
**Mandvi Bharadwaj**
Novel measures for induction of effective Hepatitis C Virus-specific T-cell immunity  
[6]

15:45 – 16:00  
**Elizabeth Keoshkerian**
Characterising effector and regulatory T cell populations in Hepatitis C infection using multi-colour FACS.  
[37]
16:00 – 16:15  Benny Baharuddin  
Role of HCV-specific T-cell metabolic pathways in predicting response to antiviral therapy. [5]

16:15 – 16:30  Rachel Wilson  
Suppression of innate immunity by the hepatitis B e antigen. [82]

16:30 – 16:45  Mirna Hunter  
The role of effector and regulatory T cells in hepatitis C infection outcomes [31]

16:45 – 17:00  Sumudu Narayana  
Identification of novel interferon stimulated genes (ISGs) that control HCV in vitro [50]

17:00 – 17:15  Nam Nguyen  
Differential gene expression of chemokine ligands within the portal and lobular compartments of the chronic HCV-infected liver is associated with a specific pattern of leucocyte subset infiltration. [53]

17:15 – 18:00  Free Time

18:00 – 19:00  Yarra Restaurant

Pre Dinner Drinks

19:00  Dinner

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Day Two:  Thursday, 24 June 2010

7:00 - 8:45  Yarra Restaurant

Breakfast

Junior scientist breakfast with the Professor

8:45 – 9:30  Marmion Room

Keynote Speaker  
Associate Professor Michael Gale Jr.  
Title: Mechanisms of nonself recognition of hepatitis C virus and immune signalling regulation of HCV infection.

9:30 – 10:30  Combined Session 3  
Innate Immunity  
Chair 1: Chirani Ramashinge – HIV  
Chari 2: Andrew Lloyd - Hepatitis
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Reference</th>
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<tbody>
<tr>
<td>9:30 – 9:45</td>
<td>Anna Hearps</td>
<td>HIV and accelerated ageing of the innate immune system.</td>
<td>[27]</td>
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<tr>
<td>9:45 – 10:00</td>
<td>Jessica Howell</td>
<td>HCV up-regulates toll-like receptor-mediated inflammatory cytokine production post liver transplantation.</td>
<td>[30]</td>
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<tr>
<td>10:00 – 10:15</td>
<td>Najla Nasr</td>
<td>The induction of viperin in HIV-1 infected monocyte-derived macrophages has antiviral effects.</td>
<td>[51]</td>
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<tr>
<td>10:15 – 10:30</td>
<td>Tali Lang</td>
<td>Human hepatitis B E antigens suppresses the innate immune response by targeting toll-like receptor function.</td>
<td>[41]</td>
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<td>10:30 – 11:00</td>
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<td>Yarra Restaurant</td>
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<td></td>
<td>Morning Tea</td>
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<tr>
<td>11:00 – 12:45</td>
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<td>Yarra Room</td>
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<td></td>
<td></td>
<td>Concurrent Session 4a</td>
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<td>HIV immunity</td>
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<td>Chair 1: Tony Cunningham</td>
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<td>Chair 2: Anna Hearps</td>
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<tr>
<td>11:00 – 11:15</td>
<td>Andrew Harman</td>
<td>Inhibition of Type 1 Interferon response by human immunodeficiency virus type 1 (HIV-1) in dendritic cells.</td>
<td>[25]</td>
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<tr>
<td>11:15 – 11:30</td>
<td>Yang Xi</td>
<td>Characterisation of novel type I interferon epsilon and its use as a molecular adjuvant to enhance HIV-specific mucosal immunity</td>
<td>[85]</td>
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<tr>
<td>11:30 – 11:45</td>
<td>Adam Johnson</td>
<td>Lactic acid, is a natural vaginal defence factor against HIV-1 and HSV-2.</td>
<td>[34]</td>
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<td>11:45 – 12:00</td>
<td>Sarah Mercier</td>
<td>The Maturation of HIV-1 infected Dendritic Cells Varies Depending on the Viral Preparation Method Used.</td>
<td>[48]</td>
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<tr>
<td>12:00 – 12:15</td>
<td>Marjon Navis</td>
<td>Vpu-specific ADCC antibodies efficiently kill HIV-infected cells: implications for ADCC-inducing HIV vaccines.</td>
<td>[52]</td>
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<td>12:15 – 12:30</td>
<td>Gamze Isitman</td>
<td>Pol is a major target for ADCC responses.</td>
<td>[32]</td>
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<tr>
<td>12:30 – 12:45</td>
<td>Amy Chung</td>
<td>Evidence of HIV Viral Escape from Natural Killer Cell-mediated Antibody Dependent Cellular Cytotoxicity.</td>
<td>[14]</td>
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</tbody>
</table>
11:00 – 12:45  Marmion Room

Concurrent Session 4b
Hepatitis Cellular and Molecular Virology
Chair 1: Joe Torresi
Chair 2: Clovis Palmer

11:00 – 11:15  Ruth Chin  
Dysregulation of signal pathways implicated in cancer development during active HBV replication. [13]

11:15 – 11:30  Nicholas Eyre  
Dynamic imaging of hepatitis C virus assembly and secretion [21]

11:30 – 11:45  Korri El Khobar  
Dysregulation of Intracellular Signal Transduction in Hepatitis C and Its Implication in HCV Fibrosis. [18]

11:45 – 12:00  Kathleen Ryan  
Genotype specific regulation of the interleukin-1 signalling pathway by the Hepatitis B virus 22KDa precore protein. [64]

12:00 – 12:15  Peter Revill  
A novel hepatitis B virus HBeAg-negative variant associated with HIV co-infection alters protein expression in vitro. [62]

12:15 – 12:45  Free time

12:45 – 13:30  Yarra Restaurant

Lunch

13:30 – 15:30  Yarra Room

Concurrent Session 5a
HIV Vaccines
Chair 1: Ivan Stratov
Chair 2: Marcel Hijnen

13:30 – 13:45  Damian Purcell  
Antigenic and Immunogenic Properties of Recombinant Envelope Glycoproteins derived from HIV-1 Pre-Seroconversion Strains. [59]

13:45 – 14:00  Robert Center  
Antigenicity and immunogenicity of brain-derived HIV-1 Env variants. [11]

14:00 – 14:15  Louise Hilton  
Engineering of Gag MicroCubes as a vaccine against HIV-1 [29]

14:15 – 14:30  Amanda Brass  
Novel HIV gag MicroCube vaccine elicits strong humoral and cellular immune responses in murine immunogenicity study. [7]
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Topic</th>
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</table>
| 14:30 – 14:45 | Adam Wheatley  
Knockdown of PERK (EIF2AK3) using engineered miRNA increases the immunogenicity of HIV-1 Env DNA vaccines in mice. |
| 14:45 – 15:00 | Fan Wu  
Evaluation of Immunity and Migration of Mucosal HIV-specific CD8+ T Cells following Prime-Boost Immunization. |
| 15:00 – 15:15 | Charini Ramasinghe  
Co-expression of IL-13 Inhibitors - An Effective Method to Enhance HIV-Specific CD8+ T Cell Avidity and Protective Immunity. |
| 5:15 – 15:30  | Sinthujan Jegaskanda  
Influenza vs. HIV: Which generates the best T-cell immunity? |
| 13:30 – 15:30 | Marmion Room  
Concurrent Session 5b  
Hepatitis Virology  
Chair 1: Peter White  
Chair 2: Nadia Warner |
| 13:30 – 13:45 | Rahma Tohidi-Esfahani  
Detection of Natural Antibodies in thymectomised ducks – an aid to DHBV Clearance |
| 13:45 – 14:00 | Tanya Applegate  
MN Azyme qPCR used to quantify multiple genotypes in Hepatitis C infection |
| 14:00 – 14:15 | Rowena Bull  
The evolutionary dynamics of hepatitis C virus: insights from deep sequencing analysis of early incidence cases. Part I – Viral diversity |
| 14:15 – 14:30 | Fabio Luciani  
The evolutionary dynamics of hepatitis C virus: Insights from deep sequencing analysis of early incidence cases. Part II - the founder virus. |
| 14:30 – 14:45 | Tina Sozzi  
| 14:45 – 15:00 | Peter Sugden  
Detection of low-level hepatitis C virus in leucocytes of individuals who are apparently uninfected. |
| 15:00 – 15:15 | Nadia Warner  
Antiviral Drug Resistant HBV: Pathogenic Significance of the Altered Viral Envelope. |
| 15:15 – 15:30 | Daniel Yuen  
Improving the HCV pseudoviral particle infectivity assay by manipulation of cellular antiviral proteins. |
| 15:30 – 16:00 | Yarra Restaurant  
Afternoon Tea |
16:00 – 17:00  
**Marmion Room**

**Concurrent Session 6a**
**HIV New Technologies**
Chair 1: Con Sonza  
Chair 2: Lachlan Gray

16:00 – 16:15  
**Amy Sexton**  
Nanoengineered Layer-by-Layer capsules as a novel delivery system for HIV vaccines

16:15 – 16:30  
**Megan Pate**  
Developing an improved HIV-1 neutralization assay.

16:30 – 16:45  
**Kate Jones**  
A novel oligo-based fluorescent *in situ* hybridization (O-FISH) technique for the detection of single copy HIV-1 nucleic acids

16:45 - 17:00  
**Jennifer La**  
Targeting HIV-1 reverse transcriptase using fragment screening

16:00 – 17:00  
**Yarra Room**

**Concurrent Session 6b**
**Hepatitis Vaccines**
Chair 1: Mandvi Bharadwaj  
Chair 2: Katja Pfafferott

16:00 – 16:15  
**Wan-Shoo Cheong**  
Development of virus-like particles (VLPs) with distinguished complexity and assessment of their immunogenicity.

16:15 – 16:30  
**Doug Johnson**  
Recombinant Mammalian Cell-Derived HCV Virus-Like-Particles to Induce Neutralising Antibody Responses to HCV.

16:30 – 16:45  
**Katja Pfafferott**  
One Step closer to a CTL-based HCV vaccine.

16:45 – 17:00  
**Kim Steegh**  
Specific T-cell response among non-responders after completing HBV vaccination

17:00 – 18:00  
**Marmion Room**

**ACHV Annual General Meeting**
17:00 – 18:00  Yarra Room

Concurrent Session 7
HIV Post Integration
Chair 1: Johnson Mak
Chair 2: Stuart Turville

17:00 – 17:15  Redmond Smyth
Mechanisms of HIV-1 diversity in its natural target cells

17:15 – 17:30  Lachlan Gray
Dissecting the role of Sp transcription factor binding sites on viral transcription in HIV-1 long terminal repeats derived from HIV-1 dementia patients

17:30 – 17:45  Haran Sivakumaran
Arginine Methylation Increases the Stability of HIV-1 Tat.

17:45 – 18:00  David Harrich
Nullbasic: an inhibitor of HIV-1 replication

18:00 – 18:45  Free time

18:45  Coaches depart Sebel Heritage for Restaurant

17:00 – 22:00  Stones of the Yarra Valley
Dinner

22:00  Coaches depart Stones of the Yarra Valley

22:15  Coaches arrive Sebel Heritage

Day Three: Friday, 25 June 2010

7:00 – 8:45  Yarra Restaurant
Breakfast

8:45 – 9:45  Marmion Room
Clinical Session
Anne Mijch – HIV 2010 The View from Nextdoor
William Sievert - Can the placenta cure cirrhosis
Chair 1: Kumar Visvanathan
Chair 2: Stephen Kent
**Short Clinical Talks**

9:45 – 10:00  **Jason Grebely - HCV**  
Potential role for \(\text{IL28B}\) genotype in treatment decision-making in recent hepatitis C virus infection.  

10:00 – 10:15  **Con Sonza - HIV**  
Retention of Antiviral Activity following Vaginal Administration of a Dendrimer-based Microbicide Gel.

10:15 – 10:30  **Martin Jakobsen**  
Identification of coreceptor usage patterns during progressive HIV-1 subtype C infection that influence disease progression.

10:30 – 11:00  **Yarra Restaurant**

**Morning Tea**

11:00 – 13:00  **Marmion Room**

**Concurrent Session 8a**

**HIV – Early Stage Translation**

Chair 1: Mario Stevenson  
Chair 2: Jenny Anderson

11:00 – 11:15  **Marit Kramski**  
HIV-1 Hyperimmune Bovine Colostrum with Broadly Neutralizing Activity against HIV-1.

11:15 – 11:30  **Sushama Telewatte**  
The dendrimer SPL7013 demonstrates HIV-1 virucidal activity.

11:30 – 11:45  **Clare Westhorpe**  
The HaCH Study: Markers of monocyte activation as correlates of cardiovascular disease in HIV patients.

11:45 – 12:00  **Edwin Leansyah**  
The use of real-time quantitative PCR to measure telomerase activity and telomere length in HIV-infected patients receiving combination antiretroviral therapy.

12:00 – 12:15  **Gregor Lichtfuss**  
HiACT: HIV immune activation and the loss of signaling in NK cells.

12:15 – 12:30  **Michael Roche**  
Dichotomous mechanisms of HIV-1 escape from the CCR5 inhibitor maraviroc by resistant virus generated in vitro and primary viruses with reduced baseline sensitivity.

12:30 – 12:45  **Sharon Lewin**  
The Histone Deacetylase Inhibitors SAHA, MS-275, LBH589 and MCT3 are able to Induce HIV-1 Transcription with Differing Potencies in Chronically Infected Cell Lines and Latently Infected Primary CD4+ T-cells

12:45 – 13:00  **Ivan Stratov**  
Biology of NK-mediated peptide-specific ADCC in HIV infection
11:00 – 13:00  **Yarra Room**

**Concurrent Session 8b**

**Hepatitis Clinical**

Chair 1: Sharon Lewin  
Chair 2: Doug Johnson

11:00 – 11:15  **Anna Ayres**

Lamivudine in the last trimester of pregnancy for prevention of HBV transmission: post-partum hepatic flares and development of genotypic nucleos(t)ide resistance.

11:15 – 11:30  **Son Truong Pham**

Frequent multiple HCV infections among injecting drug users in a prison setting.

11:30 – 11:45  **Scott Read**

Combination Treatment with Insulin Sensitiser and Interferon Improves Antiviral Effect against Hepatitis C Virus.

11:45 – 12:00  **Stephen Locarnini**

Development of an Online Genotypic Drug Resistance Testing and Monitoring Program for Chronic Hepatitis C

12:00 – 12:15  **Suzy Teutsch**

HCV incidence and infection outcome in a follow-up study of high-risk IDU prison inmates.

12:15 – 12:30  **Amanda Powell**

The Effects of Hepatitis B Infection on the Innate Immune Response During and After Pregnancy in Chronic Hepatitis B Patients

12:30 – 12:45  **Jacqueline Flynn**

Altered cytokine responses in HCV-infected subjects treated with interferon-α

12:45 – 13:00  **Danica Martinez**

The effect of obesity on the interferon stimulated gene profile and response to antiviral therapy in chronic hepatitis C infection.

13:00 – 14:00  **Yarra Room**

**Lunch**

14:00 - 15:00  **Marmion Room**

**Session 9**

**Co-infection**

Chair 1: Peter Revill  
Chair 2: Paul Cameron

14:00 – 14:15  **Alan Munn**

Mode of action, cytotoxicity, and subcellular localisation studies of a fluorescent molecule identified in a natural product library screen for inhibition of a critical HIV, HBV, and HCV host factor

14:15 – 14:30  **Margaret Littlejohn**

Evolution of HBV during HBV-active HAART.
14:30 – 14:45  Barbara Cameron  
HCV-specific immune responses during cART in individuals co-infected with HIV and HCV.  

14:45 – 15:00  Megan Crane  
LPS, immune activation and liver disease in HIV-HBV co-infection.  

15:00 – 15:30  Awards  

15:30 – 15:40  Closing Remarks  
Tony Cunningham  

16:00  Coach departs Sebel Heritage  

17:30  Coach arrives Tullamarine Airport  
(then onto Gate 11, University of Melbourne)