

IAS Towards an HIV Cure Symposium

19th - 20th July 2014

Victoria University City Convention Center, Melbourne, Australia

19th
July

Saturday 19th July

8:30 - 9:00 **Registration**

OPENING

9:00 - 9:30

Welcome and Introduction

Françoise Barré-Sinoussi, Institut Pasteur and Inserm

Jack Whitescarver, Office of AIDS Research, National Institutes of Health

Chair: Sharon Lewin, The Alfred Hospital, Monash University & Burnet Institute

Welcome Remarks

Hon. David Davis, Minister for Health, Victorian Government

KEYNOTE

9:30 - 10:00

Chair: Steve Deeks, University of California, San Francisco

The Role of Therapeutic Vaccination in HIV Cure Strategies

Jeff Lifson, Frederick National Laboratory for Cancer Research

SESSION 1

10:00 - 11:20

Clearing HIV-Infected Cells: Kill

Chairs: Asier Saez-Cirion, Institut Pasteur and Marcus Altfeld, Heinrich Pette Institute

IS1-1

10:00 - 10:20

Allogeneic Stem Cell Transplantation, Graft-versus-Host Disease and the Elimination of HIV

Invited Speaker: Geoff Hill, Queensland Institute of Medical Research

OA1-1

10:20 - 10:35

A population of CD8 T cells is located in germinal centers that is functionally capable of mediating bispecific antibody mediated killing of HIV-infected T cells

Richard Koup, Vaccine Research Center

OA1-2

10:35 - 10:50

Potent and broadly anti-HIV-1 neutralizing antibody VRC01 inhibits HIV-1 transmission from plasmacytoid dendritic cells to CD4 T lymphocytes

Bin Su, Inserm

19th
July

OA1-3
10:50 - 11:05

HIV Controller CD4+ T cells preferentially express a public TCR clonotype that confers high avidity responses against Gag

Lisa A. Chakrabarti, Institut Pasteur

OA1-4
11:05 - 11:20

Follicular SIV-specific CD8 T cells contribute to enhanced control

Rama Rao Amara, Emory University

11:20 - 11:45

Coffee Break

SESSION 2
11:45 - 13:05

Reversing Latent HIV : Shock

Chairs: Mathias Lichtenfeld, Massachusetts General Hospital and Ben Berkhout, University of Amsterdam

IS2-1
11:45 - 12:05

Epigenetic Regulation of HIV Latency

Invited Speaker: Melanie Ott, Gladstone Institutes and University of California, San Francisco

OA2-1
12:05 - 12:20

Synergistic activation of HIV-1 expression by compounds releasing active positive transcription elongation factor b (P-TEFb) and by inducers of the NF- κ B signaling pathway

Gilles Darcis, Université Libre de Bruxelles and Université de Liège

OA2-2
12:20 - 12:35

A new family of compounds that reactivate latent HIV in central memory T cells

Vicente Planelles, University of Utah

OA2-3
12:35 - 12:50

Induction and clearance of latent HIV infection : modeling viral clearance by immune effectors using cells from ART-treated patients

David Margolis, University of North Carolina at Chapel Hill

OA2-4 LB
12:50 - 13:05

The HDAC Inhibitor Romidepsin is Safe and Effectively Reverses HIV-1 latency in vivo as Measured by Standard Clinical Assays

Ole Søggaard, Aarhus University Hospital

13:05 - 14:00

Lunch Break

19th
July

NADST
14:00 - 15:00

Roundtable: Analytical Treatment Interruption in HIV Cure Research

Chair: Edwina Wright, The Alfred Hospital, Monash University & Burnet Institute

Panelists:

Judith Auerbach, University of California, San Francisco
Giulio Maria Corbelli, European AIDS Treatment Group
Daniel Kuritzkes, Brigham and Women's Hospital
Lars Østergaard, Aarhus University Hospital
Jeremy Sugarman, Johns Hopkins Berman Institute of Bioethics

SESSION 3
15:00 - 16:35

Why Does HIV Persist on ART?

Chairs: Daniel Douek, Vaccine Research Center, NIAID, NIH and Sarah Read, Division of AIDS, NIAID, NIH

IS3-1
15:00 - 15:20

Therapeutic Efficacy of Neutralizing Antibodies for HIV

Invited Speaker: Dan Barouch, Beth Israel Deaconess Medical Center and Ragon Institute of MGH, MIT and Harvard

OA3-1
15:20 - 15:35

Genetically characterizing the role of cell proliferation in maintaining persistent HIV during effective HIV therapy

Sarah Palmer, Westmead Millennium Institute and University of Sydney

OA3-2
15:35 - 15:50

TLR2 stimulation promotes HIV-1 infection of CD4+ T cells by increasing the susceptibility of CCR6- T cells to infection

Jean-François Buldoc, Université Laval

OA3-3
15:50 - 16:05

Interleukin-21 improves reconstitution of intestinal Th17 and Th22 cells and reduces residual inflammation in ART-suppressed SIV-infected Rhesus Macaques

Mirko Paiardini, Emory University

OA3-4 LB
16:05 - 16:20

Cryptic transcription of HIV-RNA species from "defective" proviruses: A novel pathway for persistent immune activation in patients with HIV-1 infection and mechanism for persistent seropositivity despite "undetectable" levels of virus

Hiromi Imamichi, NIAID/NIH

OA3-5 LB
16:20 - 16:35

IL-7 increases HIV-1 proviral integration in CD4+ T cells by inducing SAMHD1 phosphorylation, which can be blocked by Lck and PKCθ inhibitors

Maria Teresa Coiras, Instituto de Salud Carlos III

16:35 - 18:00

Poster Exhibition & Networking Session

20th
July

Sunday **20th** July

NADS2
9:30 - 10:30

Roundtable: Preparedness for HIV Cure in Resource-Limited Settings

Chair: Paula Munderi, MRC/UVRI Uganda Research Unit on AIDS

Panelists:

Jintanat Ananworanich, US Military HIV Research Program

Robert Murphy, Northwestern University

Kenly Sikwese, Positive Health Outcomes

Mathurin Tejiokem, Pasteur Centre of Cameroon

Joseph Tucker, UNC Project-China

10:30 - 11:00

Coffee Break

SESSION 4
11:00 - 12:50

Where Does HIV Persist on ART?

Chairs: Luis Montaner, The Wistar Institute and Melissa Churchill, Burnet Institute

IS4-1
11:00 - 11:20

Impact of antiretroviral treatment on HIV reservoirs

Invited Speaker: Christine Rouzioux, Université Paris Descartes

OA4-1
11:20 - 11:35

The immune checkpoint blockers PD-1, LAG-3 and TIGIT are biomarkers of HIV infected cells during ART and identify distinct cellular reservoirs

Remi Fromentin, VGTI Florida

OA4-2
11:35 - 11:50

Following in vitro culture with myeloid dendritic cells, negative regulators of T-cell activation are expressed preferentially on latently infected CD4+ T-cells

Vanessa A. Evans, Monash University and Burnet Institute

OA4-3
11:50 - 12:05

Ultra-deep barcoded SIVmac239 to identify and quantify viral reservoirs and recrudescence viremia

Brandon Keele, Frederick National Laboratory

OA4-4
12:05 - 12:20

In vivo analysis of HIV replication and persistence in the myeloid compartment

Rae Ann Spagnuolo, University of North Carolina at Chapel Hill

20th
July

OA4-5
12:20 - 12:35

**Simian Immunodeficiency Virus (SIV) infection of the macaque testis-
An immune privileged site**

Wendy Winnall, University of Melbourne

OA4-6 LB
12:35 - 12:50

**A novel assay that precisely measures the size of the latent HIV reser-
voir reveals that ART-naïve individuals harbour a large pool of latently
infected CD4+ T cells**

Nicolas Chomont, VGTI Florida

12:50 - 14:00

Lunch Break & Poster Exhibition

NADS3
14:00 - 14:30

Roundtable: Public and Private Partnerships in HIV Cure Research

Chairs: Sharon Lewin, The Alfred Hospital, Monash University and Burnet Institute, and
Zhi Hong, GlaxoSmithKline

Panelists:

David Kaslow, PATH

Mike McCune, University of California, San Francisco

CLOSING
14:30 - 15:00

Chair: Carl Dieffenbach, NIH, NIAID

**Keynote: Targeting chromatin remodelling as a treatment for haematogi-
cal malignancies – lessons we can learn for the treatment of latent HIV**

Miles Prince, Peter MacCallum Cancer Centre

15:00 - 15:15

IAS-ANRS HIV Cure Young Investigator Prize Ceremony

Chair: Jean-François Delfraissy, ANRS

15:15 - 15:30

Closing Remarks

2014 Towards an HIV cure Symposium

International AIDS Society

19 & 20 July 2014

Victoria University, City Convention Center, 300 Flinders Street, Melbourne, Australia

TIME	Saturday 19th July	Sunday 20th July	TIME
8:30 - 9:00	Registration		
9:00 - 9:30	Welcome Remarks Victoria Health Minister, David Davis MP		
9:30 - 10:00	Keynote Address Jeff Lison	Roundtable: Preparedness for HIV Cure in Resource-Limited Settings	9:30 - 10:30
10:00 - 11:20	S1: Clearing HIV-infected Cells: Kill Invited Speaker: Geoff Hill	Break	10:30 - 11:00
11:20 - 11:45	Break	S4: Where Does HIV Persist on ART? Invited Speaker: Christine Rouzioux	11:00 - 12:50
11:45 - 13:05	S2: Reversing Latent HIV: Shock Invited Speaker: Melanie Ott		
13:05 - 14:00	Lunch	Lunch Break Poster Exhibition	12:50 - 14:00
14:00 - 15:00	Roundtable: Analytical Treatment Interruption in HIV Cure Research	Discussion: Public-Private Partnership for HIV Cure	14:00 - 14:30
15:00 - 16:35	S3: Why Does HIV Persist on ART? Invited Speaker: Dan Barouch	Closing Session & IAS/ANRS Young Investigator Prize Invited Speaker: Miles Prince	14:30 - 15:30
16:35 - 18:00	Poster Exhibition		

towards an
HIV cure
people focused science driven

 **International AIDS Society**
Stronger Together Against HIV