

United States–Australia Biomedical Research Partnership

AGENDA

July 13, 2015

University of Canberra, Building 2

9:00 Welcome

Professor Tom Calma, *Chancellor, University of Canberra*

Mr. John Berry, *United States Ambassador to Australia*

Professor Anne Kelso, CEO, *National Health and Medical Research Council*

9:30 Keynote Address

Professor Ian Frazer, *Director, Translational Research Institute, University of Queensland*

10:00 Break

GENOMICS AND INFECTION RESEARCH

10:10 Genomics and Human Health

Chair: Professor Simon Foote, *Australian National University*

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Genetics in the developing world.

Professor Grant Montgomery, *Queensland Institute of Medical Research, Berghofer Medical Research Institute*

Susceptibility Genes for Endometriosis

Professor Christopher Goodnow, *Garvan Institute*

Whole genome sequencing and systems approach to inflammatory and immunological diseases

Professor Lyn Griffith, *Queensland University of Technology*

Molecular genetics of migraine: diagnostic and therapeutic implications

Professor Nick Martin, *Queensland institute of medical research, Berghofer Medical Research Institute*

How NIH funding helped create an Australian resource for the -omics era

11:20 Infection and Immunity

Chair: Professor Sharon Lewin, *Peter Doherty Institute for Infection and Immunity, University of Melbourne*

Professor Gilda Tachedjian, *Burnet Institute*

New inhibitors of HIV-1 reverse transcriptase

Professor Leann Tilley, *University of Melbourne*

Molecular basis of resistance to antimalarial drugs

Professor David Tschärke, *Australian National University*

Relating proteomes, epitope abundance and immune responses to virus infection

Professor Graham Lieschke, *Monash University*
Leukocyte biology in development and disease

Professor Michael Foley, *La Trobe University*, U.S.-Australia Malaria Vaccine Initiative

12:30 Lunch

CONCURRENT SESSIONS
I. MOLECULAR AND CELLULAR RESEARCH

1:15 Cellular Signaling in Health and Disease

Chair: Professor Jonathan Cebon, *Olivia Newton-John Cancer Research Institute*

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The transformational impact of cancer immunotherapy on contemporary clinical practice.

Professor John Mariadason, *Olivia Newton-John Cancer Research Institute*

Role of HDAC3 in regulating metabolism and cancer in the gastrointestinal tract

Professor Neil Hunter, *University of Sydney*

A humble brain in a box: how the neurosensory apparatus in decayed teeth reveals remarkable insight into the central nervous system of man

Professor David Huang, *Walter and Eliza Hall Institute of Medical Research*

Small molecules to inhibit BAX/BAK-mediated apoptosis

Professor Johnston Mcavoy, *University of Sydney*

Growth factor regulation of lens cell behavior in health and disease

2:30 Break

2:45 Molecular Pathogenicity

Chair: Professor Jillian Kril, *University of Sydney*

Professor Jane Visvader, *Walter and Eliza Hall Institute of Medical Research*

Breast stem cells- tracking them in vivo and understanding their role in cancer

Professor Geoffrey Farrell, *Australian National University*

Non-alcoholic steatohepatitis

Professor Nickolas Haass, *University of Queensland*

Melanoma heterogeneity.

Professor Roger Reddel, *Children's Medical Research Institute*

Control of telomere length: a balancing act

4:00 Break

II. CLINICAL AND APPLIED RESEARCH

1:15 Medical Diagnostics, Treatments and Drug Discovery

Chair Professor Matt Trau, *University of Queensland*

Professor Ranjeny Thomas, *University of Queensland*
Dendritic cell targeting for antigen-specific therapy in early and pre-rheumatoid arthritis

Professor Robyn Woods, *Monash University*
The ASPREE study of aspirin and healthy aging

Professor Geoffrey Mitchell, *University of Queensland*
Using individualised randomised trials to improve health outcomes and reduce costs

Professor Clive May, *Florey Institute of Neuroscience and Mental Health*
Cardiac sympathetic drive mechanism in heart failure

2:30 Break

2:45 Translational Biomedical Research

Chair: Professor Jerry Adams, *Walter and Eliza Hall Institute of Medical Research*

Professor Andrew Scott, *Olivia Newton-John Cancer Research Institute*
Defining tumour specific EGFR antibodies for treatment of advanced cancers.

Professor Peter Gray, *University of Queensland*
Development of a monoclonal antibody for prevention and potential treatment of Hendra virus infection

Dr. Wayne Fairbrother, *Genentech*
Targeting Bcl-2-family proteins: A US-Australia Research Collaboration

Professor Matt Trau, *University of Queensland*
Making nanomedicine personal: translating comprehensive genome/epigenome information & point of care diagnostics into the clinic

Professor Nikolai Petrovsky, *Flinders University*
An Australian-US partnership developing vaccines against emerging pathogens

4:00 Break

III. PUBLIC AND MENTAL HEALTH

1:15 Public Health and Global Health

Chair: Professor Jian Li, *Monash University*

Professor Jian Li, *Monash University*
Targeting the urgent global medical challenge due to antibiotic resistance: A US-Australian collaborative program

Professor Fiona Russell, *University of Melbourne*
Supporting New Vaccine Introduction in the Asia-Pacific Region

Professor Mike Hubbard, *University of Melbourne*
Chalky teeth: A silent dental global epidemic

Professor Sab Ventura, Monash University
Non-hormonal male contraception via pharmacological blockade of sperm transport

Professor John Kaldor, *Kirby Institute, University of New South Wales*
Point-of-care nucleic acid detection to control sexually transmitted infections and their adverse health outcomes in low income and remote settings.

2:30 Break

2:45 Neuroscience and Mental Health

Chair: Professor Geoffrey Donnan, *Florey Institute of Neuroscience and Mental Health*
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Clinical studies and stroke; the US Australia links.

Dr. Sam John, *Florey Institute of Neuroscience and Mental Health*
Endovascular neural recording technology

Professor Patrick Kwan, *University of Melbourne*
Genetic screening for prevention of severe cutaneous reactions to antiepileptic drugs:
from discovery to practice

Professor Bernard Balleine, *University of Sydney*
The neural basis of decision-making

Professor Stan Skafidas, *University of Melbourne*
Recent advances in molecular point of care devices for neurological and psychiatric applications

4:00 Break

PLENARY SESSION

4:15 Panel Discussion: Challenges and Opportunities for U.S. –Australia Biomedical Research

Chair: Mr. Tony Kingdon, General Manager and Head, Planning and Operations Group and Research Group, NHMRC