AMREP
WORLD HEALTH DAY FORUM 2014
DEADLY BITE: THE GLOBAL THREAT OF VECTOR-BORNE DISEASES
PROGRAM
#deadlybiteWHD
9:00am  Registration

9:40am  Welcome Address – Global burden of vector-borne diseases
Professor Brendan Crabb, Burnet Institute

10:00am  Session One
Chair: Professor James Beeson, Burnet Institute

Global malaria control and WHO Roll Back Malaria program
Professor Graham Brown AM, Nossal Institute for Global Health, University of Melbourne

10:30am  Community management of malaria in rural PNG
Mr Geoffrey Chan, Burnet Institute

10:45am  Morning Tea

11:15am  Session Two
Chair: Professor Mike Toole AM, Burnet Institute

Australian Aid program and malaria
Ms Emeline Cammack, Malaria Taskforce in the Health Policy Section, Australian Department of Foreign Affairs and Trade, Australian Government

11:40am  Malaria drug resistance
Dr Freya Fowkes, Burnet Institute

11:55am  Malaria vaccines
Professor James Beeson, Burnet Institute

12:10pm  Climate variation
Dr Jennifer Catto, Monash University

12:25pm  Ignite Global Health Public Speaking Competition
Finalists: Angela Hehir, Francis Ha, Dini Dessauer
Chair: Laura Eades, Ignite Global Health

Global Health Gateway
Dr Jenny Jamieson

Edelmira Peregrino Go Student of the Year Award
Presented by: Professor Mike Toole AM, Burnet Institute

12:45pm  Lunch
1:45pm  **Session Three**  
**Chair:** Dr Jack Richards, Burnet Institute  

1:45pm  **Vector-borne diseases in the media**  
Burnet Institute and Monash University students

1:50pm  **Scabies and skin infection**  
Associate Professor Andrew Steer, Royal Children’s Hospital and Murdoch Children’s Research Institute

2:10pm  **Leishmania**  
Professor Malcom McConville, Bio21 Institute, University of Melbourne

2:30pm  **Arboviruses**  
Professor John MacKenzie AO, Curtin University and Burnet Institute

3:00pm  **Vector control and arboviruses in Victoria**  
Ms Rebecca Feldman, Department of Health, Victoria

3:10pm  **Mosquito surveillance and control in Victoria**  
Dr Stacey Lynch, Department of Environment and Primary Industries, Victoria

3:20pm  **Ross River virus predictive modelling**  
Dr Simon Firestone, University of Melbourne

3:30pm  **Afternoon Tea**

4:00pm  **Session Four**  
**Chair:** Dr Freya Fowkes, Burnet Institute

4:00pm  **Vector-borne diseases in the media**  
Burnet Institute and Monash University students

4:05pm  **Clinical aspects of dengue and vaccines**  
Dr Irani Ratnam, Victorian Infectious Diseases Service, Royal Melbourne Hospital

4:25pm  **Wolbachia - a natural approach to reduce the spread of dengue**  
Dr Peter Ryan, Monash University

4:50pm  **Closing**  
Professor James Beeson, Burnet Institute
BIOGRAPHIES

**Professor Brendan Crabb**
*Director and CEO of Burnet Institute; Co-Head, Malaria Research Laboratory, Burnet Institute; and President, Association of Australian Medical Research Institutes (AAMRI).*

Professor Brendan Crabb’s expertise is in the study of infectious diseases, particularly those affecting the developing world. The primary driver for his own laboratory’s research is the development of a malaria vaccine and the identification of new targets for therapeutic intervention, a goal that fits well with the Burnet Institute’s mission.

Professor Crabb is also the President of the Association of Australian Medical Research Institutes (AAMRI), the peak body representing 10,000 staff and students of Australia’s independent medical research organisations.

**Professor James Beeson**
*Co-Head, Centre for Biomedical Research and Head of Malaria Research: Immunity, Vaccines and New Therapies Laboratory, Burnet Institute.*

An NHMRC Research Fellow and a public health physician, Professor Beeson completed his medical degree at Monash University in 1992. Following postgraduate specialty training as a public health physician in 2001, he headed a research group at the Walter and Eliza Hall Institute from 2004 to 2010. He joined the Burnet Institute in January 2011.

His research group primarily focuses on understanding how malaria causes disease in people and how immunity to malaria develops, and the development of interventions to reduce malaria, such as vaccines or public health programs. His team’s research currently involves clinical and population studies in Papua New Guinea, Africa and Asia.

**Professor Graham Brown AM**
*Foundation Director, Nossal Institute for Global Health, Melbourne School of Population and Global Health.*

Professor Brown is a past Head of Infection and Immunity at the Walter and Eliza Hall Institute and of the Victorian Infectious Diseases Service at the Royal Melbourne Hospital, and a former James Stewart Professor of Medicine, University of Melbourne. He has also worked in education and research in Papua New Guinea and Tanzania, and completed his Master of Public Health at the Harvard School of Public Health.

Professor Brown is the Deputy Chair of the board of WHO **Roll Back Malaria**, representing the research and academia constituency, and is Chair of the Scientific Consultants Group of the USAID Malaria Vaccine Development Program.

**Ms Emeline Cammack**
*Policy Manager, Malaria Taskforce in the Health Policy Section, Australian Department of Foreign Affairs and Trade.*

Emeline Cammack is responsible for developing policy advice and strategy for the Australian international aid program relating to Australia’s malaria investments. Prior to joining Australian Aid in April 2012 Ms Cammack worked in the areas of chronic disease and primary health care policy at ACT Health, and also spent 15 months in Vietnam working in the field of water and sanitation policy. She holds a Bachelor of Arts (Honours) in asian history and will shortly complete a Master of Public Health from the Australian National University.
Dr Jennifer Catto
Research Fellow, School of Mathematical Sciences, Monash University.

Dr Catto is funded by an ARC Discovery Early Career Researcher Award, and is working on a project to increase the understanding of the links between mid-latitude storms and rainfall, to improve projections of water availability and potential drought or flooding. Dr Catto has worked on various aspects of climate, particularly the development of innovative methods to evaluate climate models.

Mr Geoffrey Chan
International Health and Development Officer, Burnet Institute.

Mr Chan was based in Papua New Guinea from 2011 to 2013 working on a range of Burnet projects including the East New Britain Sexual Health Improvement Project and Home-Based Malaria Management Project. Since returning to Melbourne in 2013 he has been working in Burnet’s Centre for International Health in the Infectious Diseases team. Prior to Burnet, he worked in other areas of development, including education and disaster-risk reduction.

Mr Chan has strong practical experience in health programming and implementation in developing contexts, including training and capacity-building approaches.

Ms Rebecca Feldman
Team Leader, Information and Programs, Victorian Department of Health.

Ms Feldman began her career as a pharmaceutical research scientist in 2005, which included work on projects for the non-profit, public-private partnership, Medicines for Malaria Venture. She received her Bachelor of Science with Honours from Monash University in 2001 and went on to a Master of Science and a Master of Public Health from the University of Queensland. Ms Feldman joined the Department of Health in 2012 and is involved in the investigation of, and response to, mosquito-borne diseases and public health risks. She currently coordinates the Victorian Arbovirus Disease Control Program.

Dr Simon Firestone
Coordinator, Master of Veterinary Public Health program, University of Melbourne, and veterinary epidemiology and public health lecturer.

Dr Firestone has practiced as a vet and worked as an epidemiologist with Commonwealth and State Departments of Health, the World Health Organization and Vétérinaires sans Frontières across Southeast Asia. Dr Firestone is also presently conducting research focused on zoonoses, outbreak investigation and spatiotemporal disease modelling, particularly arboviruses, Q fever, influenza and salmonellosis.
Dr Freya Fowkes
Head of Malaria and Infectious Disease Epidemiology, Burnet Institute.  
An ARC Future Fellow, Dr Freya Fowkes is involved primarily in examining the epidemiology of malaria and in particular immunology, drug resistance, host genetics, and susceptibility to malaria and associated morbidities. In 2002, she obtained a Master of Science in Epidemiology from the London School of Hygiene and Tropical Medicine and completed her doctorate at the University of Oxford. She did her post-doctoral training at the New York University School of Medicine and the Walter and Eliza Hall Institute. Dr Fowkes also holds adjunct positions at the University of Melbourne and Monash University where she teaches statistics, epidemiology and infectious disease epidemiology.

Dr Stacey Lynch
Dr Lynch received a PhD in Molecular Virology from the University of Melbourne in 2010 and coordinates the arbovirus detection, adult mosquito monitoring and sentinel chicken components of the Victorian Arbovirus Disease Control Program. Dr Lynch is based at the AgriBio Centre in Bundoora, Victoria.

Professor John S. Mackenzie AO
Research Associate, Curtin University; Honorary Professor, University of Queensland; Honorary Senior Principal Fellow, Burnet Institute.  
Professor Mackenzie was Professor of Tropical Infectious Diseases at Curtin University until his retirement, and was the inaugural holder of a Premier’s Fellowship (WA) and Deputy CEO of the Australian Biosecurity CRC. He serves on the Steering Committees of the World Health Organization’s (WHO) Global Outbreak Alert and Response Network and Bi-Regional Strategy for Emerging Diseases. From 2009 to 2010, he was Chair of the International Health Regulations Emergency Committee for the influenza H1N1 pandemic. He was the inaugural recipient of the Academy of Science Malaysia’s Mahathir Science Award for Excellence in Tropical Research, was elected Secretary-General of the International Union of Microbiological Societies (IUMS) from 1999 to 2005, and was a Fellow of the American Academy of Microbiology.

Professor Malcolm McConville
Deputy Director, Bio21 Institute and Associate Director, Institute’s Structural Biology Research Theme, University of Melbourne.  
Professor McConville has had a long-standing interest in the metabolism of microbial pathogens with the view of identifying new drug targets. He received his PhD from the University of Melbourne and held post-doctoral fellowships at the Walter and Eliza Hall Institute and the University of Dundee, Scotland. He moved his research group to the Department of Biochemistry in 1994 and since then has received substantial funding from the NHMRC, the Wellcome Trust, and the Howard Hughes Medical Institute. He is currently a Principal Research Fellow with the NHMRC and is involved in the establishment of the Metabolomics Australia hub within the Bio21 Institute.
**Dr Irani Ratnam**  
*Infectious Diseases Physician, Royal Melbourne Hospital and Peter Doherty Institute.*

Dr Ratnam completed her PhD in arboviral infections and is currently researching areas that include epidemiological and clinical aspects of dengue infections. She is also involved in antimicrobial stewardship in both a clinical and research capacity.

**Dr Jack Richards**  
*Head of Malaria and Tropical Medicine Laboratory and Principal - Infectious Diseases, Burnet Institute; Infectious Diseases Physician; and NHMRC Postdoctoral Fellow.*

Dr Richards’ research seeks to identify antibody responses that confer protection from symptomatic malaria and subsequent malaria vaccine development. He has ongoing collaborations in Papua New Guinea and Timor-Leste and continues to practice as an infectious diseases physician at the Royal Melbourne Hospital. He has a particular interest in vector-borne diseases, tropical and travel medicine. These activities are combined with an interest in public health, especially in determining approaches that can decrease global inequities in health.

**Dr Peter Ryan**  
*Program Manager, School of Biological Sciences, Faculty of Science, Monash University.*

The Eliminate Dengue research program is developing a natural approach to control the spread of dengue. Dr Ryan has a background in medical entomology and public health, and has lived in Vietnam and worked on various community-based health and medical research projects.

**Associate Professor Andrew Steer**  
*Paediatrician and paediatric infectious diseases physician, Royal Children’s Hospital, and Group Leader, Group A Streptococcal Research Group, Murdoch Childrens Research Institute.*

Associate Professor Steer is also a Principal Research Fellow at the Centre for International Child Health at the University of Melbourne. His interests centre on the control of group A streptococcal (GAS) disease including public health efforts aimed at controlling rheumatic heart disease, impetigo and scabies; understanding the pathogenesis of acute rheumatic fever; and developing a global GAS vaccine.

**Professor Mike Toole AM**  
*Deputy Director (International Program Strategy), Burnet Institute.*

Professor Toole has worked for more than 40 years in a range of international health areas; communicable disease control (including HIV), maternal and child health and nutrition, and public health in emergency settings. He is a former Head of Burnet’s Centre for International Health. He has also worked in Thailand (eight years) Somalia (two years), and spent 10 years at the Center for Disease Control in Atlanta, USA. Professor Toole has also undertaken short projects in more than 30 countries across five continents.

A founding member of Médecins Sans Frontières Australia, he is a member of the Global Fund Technical Review Panel, the Board of the Three Diseases Fund for Burma, and the Independent Monitoring Board of the Global Polio Eradication Initiative.