

# The Genomics Revolution: Impact on Public Health and Medicine

## Thursday 19th November 2015



Join this exciting one-day event hosted by Paul Lacaze, Head of Public Health Genomics at Monash University's School of Public Health and Preventive Medicine. This is a free event, designed specifically for ASPREE and SPHPM staff to learn more about the rapidly evolving field of genomics. Experts from various areas will be presenting broad overviews to help illustrate how genomics is changing medicine and public health.

**Venue:** The Alfred Medical Research and Education Precinct (AMREP) lecture theatre, 75 Commercial Rd, The Alfred, Melbourne Vic 3004.

**Event time:** 9:20am - 3:00pm (Registration opens at 9:00am)

**Cost:** FREE to attend but you MUST register attendance by clicking on <https://my.monash.edu.au/news-and-events/bookings/mnhbs/> under keywords type 'genomics' to search. Places limited to 200 (priority given to SPHPM staff and students)

Further venue details and parking information can be found at: <http://www.med.monash.edu.au/sphpm/creps/seminars.html>

Enquiries to Catherine Pound on [crepatientsafety@monash.edu](mailto:crepatientsafety@monash.edu) or +61 3 9903 0891.

### PROGRAM

0900

#### REGISTRATION

0920 - 0930 Welcome

Prof John McNeil, Head - School of Public Health and Preventive Medicine, Monash University

0930 - 1010 **What is genomics? Current plans and future impact**

Dr Paul Lacaze, Head - Public Health Genomics Program, School of Public Health and Preventive Medicine, Monash University

1010 - 1045 **What is genetic epidemiology? Can we use genetics to accurately predict common disease risk?**

Dr Michael Inouye, Deputy Director & Founding Core Member, Centre for Systems Genomics, University of Melbourne

1045 - 1100

MORNING TEA (15 minutes)

1100 - 1135 **Population-scale whole human genome sequencing: current and future implications for public health**

Dr Andrew Stone, Genomics Project Officer, Kinghorn Centre for Clinical Genomics, Garvan Institute of Medical Research, Sydney

1135 - 1210 **Microbial genomics and its impact on global health**

Prof Anton Peleg, Director - Department of Infectious Diseases, Alfred Hospital and Monash University

1210 - 1300

LUNCH (50 minutes)

1300 - 1330 **Genetics and epigenetics of neuropsychiatric disorders: a complex minefield**

Dr Joanne Ryan, Research Fellow, ASPREE, School of Public Health and Preventive Medicine, Monash University and Murdoch Childrens Research Institute

1330 - 1400 **Pharmacogenomics: the power of pre-emptive gene testing for personalized medicine and adverse drug reactions**

Les Sheffield, Senior Clinical Geneticist - GenesFX Health and Victorian Clinical Genetics Services

1400 - 1445 **The Past, Present and Future of DNA Sequencing**

Dr Steve Turner, Co-Founder and Chief Technology Officer, Pacific Biosciences of California

*Dr Turner co-founded Pacific Biosciences (PacBio) in 2000 at Cornell University and was co-author of the cover story in Science magazine (January 31, 2003) that introduced the single-molecule real-time DNA sequencing technology to the scientific community. The long-read DNA sequencing platform is now used by thousands of researchers worldwide and has changed the landscape of genomics. He is the author of over 50 scientific papers in fields ranging from DNA sequencing technology and biophysics to genomics and epigenomics.*

1445 - 1500 Summary, Q & A