

INTRODUCTORY COURSE IN APPLIED MICROBIAL GENOMICS FOR PUBLIC HEALTH

1 -3 December 2020

**Online course hosted by the Doherty Institute,
The University of Melbourne**

Genomics is revolutionising the practice of public health microbiology and epidemiology globally, however capacity in genomic data analysis is a key limiting factor in implementation of the technology. This course, designed for public health microbiologists and epidemiologists, will introduce concepts and provide practical experience in the analysis and interpretation of microbial genome data for public health action, with a focus on antimicrobial resistance and the application of genomics to the COVID-19 response.

Course summary

The course will be delivered in an online format over three days, in a combination of lectures, tutorial sessions, and interactive activities to provide hands on experience with basic tools used in microbial genomics for public health.

The course will provide an introduction to the basic principles of microbial genomics for public health, training in the generation and quality control of genome sequence data, followed by the use of genomic analysis software, including Nullarbor, for genome exploration and comparative genomics.

The course will also focus on the use of genomics to investigate bacterial pathogens and antimicrobial resistance, and the application of genomics to COVID-19. In all cases, the course will focus on the skills required to answer questions relative to public health.

Organising committee

Microbiological Diagnostic Unit Public Health
Laboratory

Doherty Applied Microbial Genomics

Professor Tim Stinear, Professor Ben Howden, Dr Dieter Bulach, Associate Professor Torsten Seemann, Professor Deborah Williamson, Dr Andre Mu, Dr Susan Ballard, Dr Sarah Baines, Dr Danielle Ingle, Dr Claire Gorrie, Dr Jake Lacey, Dr Kristy Horan, Dr Clare Sloggett.

How to apply

Apply here: <https://www.surveymonkey.com/r/Z6QTYJL>

Applications close on 30 October 2020

Successful applicants will be notified via email.

Cost

Standard fee: AUD \$660

Low and middle income country subsidised fee: AUD \$110

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