

# Virology

# MasterClass

20th June – 2nd July 2010 at the University of Adelaide

The 3<sup>rd</sup> Australasian *Virology MasterClass* is a unique post graduate course in Medical Virology offered by specialist practitioners working in the discipline. This intense two week course has been established to provide up to date and comprehensive information relevant to modern diagnostic, molecular and clinical virology.

The 2006 and 2007 Virology MasterClasses attracted participants from Australia, New Zealand, Hong Kong, Singapore and Brunei. Highly acclaimed and previously oversubscribed and the course will offered again in 2010.

## WHO SHOULD ATTEND

Pathologists, infectious disease physicians, researchers, post graduate students, academic, diagnostic and public health professionals who wish to increase their knowledge of medical virology and virology networks in Australasia.

## HOST INSTITUTIONS

Institute of Medical and Veterinary Science  
Hanson Institute  
University of Adelaide

## CONTENT AND OUTLINE

Morning lectures by highly experienced local and interstate speakers will be followed by dry and wet practicals and laboratory visits each afternoon. Theoretical scenarios and interactive sessions will be used to support the lectures.

### Topics

- Virus structure, classification and replication
- Pathogenesis and epidemiology of virus infections
- Vaccination, antivirals, gene therapy, surveillance and eradication of major human virus infections
- Clinical features, laboratory diagnosis, management and control of major human virus infections
- Dealing with bioterrorism, containment, diagnostic laboratory standards and quality assurance
- Principles of viral bioinformatics and phylogenetics.

### Practical work and workshops

Negative staining electron microscopy and virion morphology | Virus isolation, including viral cytopathic effects, plaque assay, immuno-staining | Virus purification, including principles of ultracentrifugation, SDS-PAGE, ELISA, Western blot and PCR | Quantitative and reverse transcription PCR | Viral bioinformatics, microarray, proteomics.

## APPLICATIONS

Course numbers are strictly limited; applications must be lodged no later than 31<sup>st</sup> March 2010.

Visit the website

[www.sapmea.asn.au/conventions/virology2010](http://www.sapmea.asn.au/conventions/virology2010)

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