



## **Pacific Pathology Training Centre**

### **Medical Microbiology**

### **23 August – 18 September 2021**

This training course will be delivered over four weeks at the Pacific Pathology Training Centre, based at the Wellington Hospital campus in Wellington, New Zealand to medical laboratory personnel working in hospital laboratories (or similar) in the South Pacific region.

#### **Aim:**

A comprehensive theoretical component and a series of practical workshops are provided to students in the diagnostic medical field of Medical Microbiology procedures. The purpose of the training is equip the students with sufficient knowledge to be able to work confidently in their home laboratories and be able to provide quality diagnostic test results to clinicians using the medical laboratory services for patient management and better health outcomes.

#### **Course Content and Objectives:**

This course provides students with the following:

- Processing of all sample types, performing cell counts and various identification stains on specimens
- The theoretical and practical aspects of current methods used in the isolation and identification of bacterial pathogens isolated from various microbiology specimens
- Understanding and identification of major bacterial groups
- Antimicrobial susceptibility testing of micro-organism pathogens using the CLSI and EUCAST guidelines
- Monitoring of resistance patterns for multi drug resistant bacterial pathogens
- Discussions on emerging and re-emerging bacterial organisms likely to cause infectious diseases
- Identification and diagnosis of pathogenic parasites
- Emergence of automation in Microbiology, in-house media production for bacterial isolation, and choosing the right resources to carry out microbiological testing
- Health and safety in a microbiology laboratory, including disposing of infectious rubbish
- Reporting and presenting of microbiology results to clinicians
- The role of the microbiology laboratory in the surveillance of nosocomial infections and identification of infections of public health importance
- Serological and other rapid methods for the identification of bacterial and viral diseases including Hepatitis A, B, and C, HIV and other STIs
- Standard operating procedures and written documents in Microbiology
- Laboratory quality management issues, including running/ managing quality controls, documentation etc.
- UN/ IATA shipping requirements for infectious substance affecting humans and animals, biological substances category B