



# Pacific Paramedical Training Centre Haematology

5 August – 13 September 2019

This training course will be delivered over six weeks at the Pacific Paramedical 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 haematology and blood film morphology. 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:

- This course provides students with the following:
- Guidelines for the objective microscopic evaluation of white cells, red cells and platelets in both health and disease.
- Introduction to the workings of the microscope in terms of correct operation, correct use of objectives, and essential maintenance.
- Principles of Romanowsky staining, the preparation of stains and buffers, causes of inconsistent staining quality and the correct staining techniques used in the identification of malarial parasites.
- Introduction to the blood film in terms of sample quality, the effects of anticoagulants, correct technique in blood film making, morphological artefacts, buffy coat preparations, and the correct storage of blood films.
- Extensive teaching on the correlation of blood film findings with results obtained from manual and / or automated methods for red cell, white cell and platelet parameters.
- Morphological terminology with reference to origin and correct application is also discussed.
- The lineage of all blood cells systematically from the common stem cell through all stages of development.
- A comprehensive account of both normal Haematology and pathological Haematology.
- Provides students with confidence in the preparation, staining and examination of blood films, being able to differentiate the white cell count into both normal and abnormal populations and finally recognise and comment on with confidence, abnormal film findings in an extensive range of common blood cell disorder