

# Introductory Short Course in Genomics & Molecular Pathology

Friday 26 – Sunday 28 November 2021 | The Westin, 111 Mary Street, Brisbane

| Friday 26 November<br><b>Genomic Foundations</b><br>8.15am Registration opens                                                                                                                                               | Saturday 27 November<br><b>Genomics in Clinical Practice</b>                                                                                                         | Sunday 28 November<br><b>Immunopathology &amp; Chemical Pathology</b>                                                                                    | Sunday 28 November<br><b>Haematology</b>                                                                                                                         | Sunday 28 November<br><b>Anatomical Pathology</b>                                   |
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| <b>9.00am - 10.30am</b><br>Genomic primer (speaking the language of genomics)<br>Introduction to genomic architecture (genes and genomic variation)<br>Inheritance models (basic)                                           | <b>9.00am - 10.30am</b><br>Introduction to ethics of genetic testing in Australia (vs USA)<br>Regulatory requirements in Australia<br>Bioinformatics primer          | <b>9.00am - 10.30am</b><br>Updating the IUS PID panels<br>HLA typing<br>PID genetics in adults                                                           | <b>9.00am - 10.30am</b><br>Cancer cytogenetics and microarray<br>Thalassemia and sickle cell disease<br>Bleeding disorders                                       | <b>9.00am - 10.30am</b><br>Breast<br>Endocrine molecular pathology<br>Head and neck |
| <b>Morning Tea 10.30am – 11.00am</b>                                                                                                                                                                                        |                                                                                                                                                                      |                                                                                                                                                          |                                                                                                                                                                  |                                                                                     |
| <b>11.00am - 12.30 pm</b><br>Overview of tools for genetic testing: including cytogenetics and microarray<br>Choosing the right test<br>What to test: sample types, nucleic acid preparation methods and quality assessment | <b>11.00am - 12.30pm</b><br>Clinical and disease-specific databases, normal population variations<br>The importance of accurate phenotype for diagnosis<br>Mosaicism | <b>11.00am - 12.30pm</b><br>Genotyping that influences therapy in immunological disorders<br>Genetics of familial hypercholesterolaemia<br>MODY genetics | <b>11.00am - 12.30pm</b><br>Leukaemia in children and adults<br>Germline predisposition to haematologic malignancy<br>Genomic testing for management of lymphoma | <b>11.00am - 12.30pm</b><br>Neuropathology<br>Gastrointestinal<br>Lung              |
| <b>Lunch 12.30pm – 1.30pm</b>                                                                                                                                                                                               |                                                                                                                                                                      | <b>Sunday lunch 12.30pm – 1.15pm</b>                                                                                                                     |                                                                                                                                                                  |                                                                                     |
| <b>1.30pm - 3.00pm</b><br>PCR-based analysis<br>Microarrays<br>NGS                                                                                                                                                          | <b>1.30pm - 3.00pm</b><br>Variant classification workshop 1                                                                                                          |                                                                                                                                                          |                                                                                                                                                                  |                                                                                     |
| <b>Afternoon Tea 3.00pm – 3.30pm</b>                                                                                                                                                                                        |                                                                                                                                                                      |                                                                                                                                                          |                                                                                                                                                                  |                                                                                     |
| <b>3.30pm – 5.00pm</b><br>Genetic testing in solid tumours<br>Renal Diseases<br>Epigenetics<br>5.00pm – 7.00pm Welcome Drinks                                                                                               | <b>3.30pm - 5.00pm</b><br>Variant classification workshop 2                                                                                                          |                                                                                                                                                          |                                                                                                                                                                  |                                                                                     |