

NSW Health Pathology's 2022 Research Forum

Day 1 'COVID-19 and Beyond'

Opening Message

Tracey McCosker PSM, Chief Executive | NSW Health Pathology

Early Career Researcher Showcase

Chaired by Associate Professor Robert Lindeman, Director Clinical Operations | NSW Health Pathology

- **Dr Jessica Agius, Postdoctoral Research Fellow, Public Health ICPMR Westmead Hospital | NSWHP Health Pathology**
The dynamic nature and public health relevance of SARS-CoV-2 within-host diversity
- **Dr Gregory Walker, Research Associate, Virology Research Laboratory, Prince of Wales Hospital | NSW Health Pathology and University of New South Wales (UNSW)**
Rapid evaluation of clinical immunotherapeutics against emerging SARS-CoV-2 variants of concern
- **Mr Christopher Kot, Point of Care Testing | NSW Health Pathology**
Small scale assessment of false positive rapid antigen tests causation
- **Dr Jessica Johnson-Mackinnon, Research Fellow, Westmead ICPMR | NSWHP Health Pathology and University of Sydney**
Using Respiratory Viral Oligo Panel to identify co-infections in SARS-CoV-2 positive patients

Concurrent Session 1

Chaired by Mr James Favaloro, Hospital Scientist, Haematology, RPA | NSW Health Pathology

- **Ms Felicia Gong, Scientific Officer, Forensic Biology/DNA Unit, FASS | NSW Health Pathology**
Quality Control monitoring in a Forensic Biology Laboratory: A Success Story
- **Ms Emily Bottero, Scientific Officer, Illicit Drugs Analysis Unit, FASS | NSW Health Pathology**
Dope Ropes: Exploration of analysis techniques for Cannabinoids found in edibles

Concurrent Session 2

Chaired by Mrs Melissa Sam, Immunology Research Scientist | NSW Health Pathology

- **Dr Rena Hirani, Senior Research Fellow, Research and Development | Australian Red Cross Lifeblood**
Seroprevalence of SARS-CoV-2 antibodies among Australian blood donors following the arrival of the Omicron variant
- **Ms Elizabeth Geddes, Strategic Program Manager, Ms Tracey Cambourn, Implementation Lead – Transformational Projects | NSW Health Pathology**

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<ul style="list-style-type: none">• Dr Ying Zhu, Senior Bioinformatician, Genomics NSW Health Pathology Implementation of the Genomic Annotation Interpretation Application (GAIA) Platform in a diagnostic Massively Parallel Sequencing service	<p>When COVID-19 changes the rules: Understanding the rapid implementation of a pathology result notification service – A case study</p> <ul style="list-style-type: none">• Dr Emmanuel Favaloro, Principal Hospital Scientist, Haematology Westmead ICPMR NSW Health Pathology and Sydney Centres for Thrombosis and Haemostasis, Westmead Hospital Assessment of COVID-19 vaccine-induced thrombotic thrombocytopenia in Australia
<p>Plenary Session 1 – National Chaired by Dr Deanna Paulin, Director People and Culture NSW Health Pathology</p> <ul style="list-style-type: none">• Nathan Jones, Director of Aboriginal Health South Western Sydney Local Health District Aboriginal Health Research Experiences	
<p>Plenary Session 2 – International Chaired by Dr Emmanuel Favaloro Principal Hospital Scientist, Haematology Westmead ICPMR NSW Health Pathology</p> <ul style="list-style-type: none">• Professor Giuseppe Lippi, University of Verona (Italy) COVID-19 Beyond Virology	
<p>Closing Remarks Associate Professor Robert Lindeman, Director of Clinical Operations NSW Health Pathology</p>	

NSW Health Pathology's 2022 Research Forum

Day 2 'Research Initiatives and Beyond'

Opening Message

Emeritus Prof Maree Gleeson, Board Member | NSW Health Pathology

Concurrent Session 1

Chaired by Dr Gregory Walker, Research Associate, Virology Research Laboratory, Prince of Wales Hospital | NSW Health Pathology and University of New South Wales (UNSW)

- **Angela Chiew, Clinical Toxicology/Emergency Medicine Staff Specialist | ED Prince of Wales Hospital**
Paracetamol Metabolites following Acute Paracetamol Overdose as a Biomarker for Acute Liver Injury
- **Dr Jenny Draper, Bioinformatician at the NSW Microbial Genomics Reference Laboratory**
Moving from epi-curves to epi-fishplots: visualising the evolution of genomic clusters
- **Dr Catherine Hitchcock, Senior Scientist, Forensic Biology/DNA Laboratory, FASS | NSW Health Pathology**
Validation of the Precision ID™ mtDNA whole genome panel and the Ion GeneStudio™ S5 Plus Sequencer for mitochondrial DNA casework

Concurrent Session 2

Chaired by Mr Michael Evtushenko, Client Services Manager | NSW Health Statewide Biobank

- **Mrs Alice Cochrane, Forensic Biologist, Forensic Biology/DNA Laboratory, FASS | NSW Health Pathology**
Solving Crime Through Family Ties
- **Dr Eby Sim, Postdoctoral Research Fellow, Sydney Infectious Diseases Institute | The University of Sydney**
Genomics aided surveillance of Shiga-toxin producing Escherichia coli in New South Wales
- **Dr Shona Chandra, Postdoctoral Research Fellow, ICPMR Westmead | NSW Health Pathology**
A longitudinal genomic survey of invasive pneumococcal serotype 3 disease in Australia

Plenary Session 1 – National

Chaired by Dr Catherine Hitchcock, Senior Scientist, Forensic Biology/DNA Laboratory, FASS | NSW Health Pathology

- **Ms Carole Field, Group Manager Database & Case Management Unit, Forensic & Analytical Science Service | NSW Health Pathology**
DNA-led Identification for Criminal and Coronial Casework

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Early Career Researcher Showcase

Chaired by Dr Bente Talseth-Palmer, Research Strategy Lead | NSW Health Pathology

- **Mr James Favaloro, Hospital Scientist, Institute of Haematology, RPA | NSW Health Pathology**
Single-cell analysis of CD8+T-cells in newly diagnosed multiple myeloma patients
- **Mr Kevin Mantik, Senior Medical Scientist, Chemical Pathology, Prince of Wales Hospital | NSW Health Pathology**
Validation of an LC-MS/MS method for ADMA, SDMA, L-arginine and L-citrulline in human plasma
- **Dr Winkie Fong, Postdoctoral Research Fellow, ICPMR Westmead Hospital | NSW Health Pathology**
Genomic surveillance of invasive Haemophilus influenzae in New South Wales
- **Mrs Melissa Sam, Research Scientist, Immunology, Liverpool Hospital | NSW Health Pathology**
Development and Evaluation of an LC-MS method for therapeutic monitoring of Infliximab drug levels for use in the routine clinical laboratory

Plenary Session 2 – International

Chaired by Sharon Neville, Operations Manager, Criminalistics, Forensic & Analytical Science Service | NSW Health Pathology

- **Dr Colleen Fitzpatrick, Identifinders International LLC, California USA**
Whose Loved One is This? The Use of Forensic Genealogy in Resolving Missing Persons Cases

Closing and Award Ceremony

Tracey McCosker PSM, Chief Executive | NSW Health Pathology