

Final Program:

2022 MEDI7282

Foundations of Medical Research Symposium

Date: 10am – 12pm Monday 24 October 2022

Location: Online – Specific zoom link for each session (see following pages)

Contact: Dr Akefe Isaac, MEDI7281 Course Coordinator - med.yr2projects@uq.edu.au

Estimated times only: allowing ~ 7 minutes for presentation, and ~3 minutes for questions (Total of 10 minutes per student**), and an additional 3 minutes for change over.*

Students must attend the entire session

**I will be monitoring the above email during the symposium so please send an email if you have any trouble joining a session and I should be able to help.*

If you have any problems logging into zoom, kindly contact - med.yr2projects@uq.edu.au
or call Isaac - 0410546651; Di – 0439516342

Session 1: Clinical Research & Treatment Models
Chairperson: Professor Di Eley
Zoom Link: <https://uqz.zoom.us/j/89027545135>

	Student Name:	Project Title:	Supervisors
a	Chang Su	Colorectal cancer organoids for personalised medicine	Dr Vicki Whitehall, Dr Kelly Olsen, Dr Catherine Bond
b	Howard Wong	Towards Systematic Maturation of Analytics and System Redesign to Transform (SMART)	Dr Jodie Austin
c	Megan van Niekerk	Correlation of Cardiology-adjudicated and clinician diagnoses in emergency patients	Dr Louise Cullen and Dr Jaimi Greenslade
d	Winston Lin	Lung Cancer in Never Smokers	Professor Kwun Fong, and Dr Barbara Page
e	Xinyuan Zhang	Characterisation of putative genetic mutations that drive immunodeficiency	Dr Magdalena Antczak, Dr Pablo Canete
e	Stephanie Leech	Characterisation of putative genetic mutations that drive immunodeficiency	Dr Magdalena Antczak, Dr Pablo Canete
g	Xuan Pham	Investigating transfusion-related acute lung injury (TRALI) using laboratory models	Dr John-Paul Tung
h	Zohaib Nadeem	Assessment of haemodynamic profile with vasopressor treatment in an ovine septic shock model	Dr Nchafatso Obonyo
i	Zahra Hossein zadeh	Assessment of haemodynamic profile with vasopressor treatment in an ovine septic shock model	Dr Nchafatso Obonyo
j	William Jordan	Registry focussed on outcomes of surgical and non-surgical interventions for children with cerebral palsy	Professor Chris Carty

Session 2: Digital Health interventions, Emergency medicine & Disease registry
Chairperson: Asso. Prof. Bernadette Richards
Zoom Link: <https://uqz.zoom.us/j/82243290103>

	Student Name:	Project Title:	Supervisors
a	Dougal Brown	Medical Device Technical File Documentation - Evidence Building	Dr Rebecca Murray
b	Paul Malan	Dilator design, development and testing for urethral stricture	Dr Rebecca Murray
c	JoaoVictor Shibata	Implementation of technology in the ICU	Dr. Natasha Roberts and Dr. Menino Cotta
d	Gretel Wessely	Implementation of technology in the ICU	Dr. Natasha Roberts and Dr. Menino Cotta
e	Emma Giles	Implementation of technology in the ICU	Dr. Natasha Roberts and Dr. Menino Cotta
f	Kabir Arora	Digital transformation of tools for bronchoscopic navigation	Professor Kwun Fong, Dr Barbara Page
g	Sarah Miller	Digital brief psychological intervention for patients with chronic pain at risk of prescription opioid misuse	Dr Rachel Elphinston
h	Dominic Purcell	Factors influencing alcohol-related presentations to an Emergency Department	Dr Andy Wong, Mr Todd Selwood
i	Lachlan Stock	International Hip Dysplasia Registry Project	Dr Alexis Brierty
j	Nikhil Malhotra	Perampanel Registry	Professor David Reutens

Session 3: Mental health, Ageing, & diagnostic imaging
Chairperson: Dr Nicole Shepherd
Zoom Link: <https://uqz.zoom.us/j/86790232116>

Student Name:		Project Title:	Supervisors
a	Rylan Steinkey	Machine Learning and Artificial Intelligence Approaches for the Diagnosis of Sleep Problems in Children	Dr Ajay Kevat
b	Esther Mann	RELEASE: Redressing Long-term Antidepressant use in general practice	Dr Maria Donald, Dr Katharine Wallis
c	Siew Hui Poh	How well do children with neurodisability tolerate in lab paediatric sleep studies?	Associate Professor Jasneek Chawla, Dr Daniela Lanzlinger
d	Patrick Cummins	Circuitry Underlying Fear and Extinction Memory	Matthew Kenna; Dr Roger Marek
e	Rajat Patel	Cognitive impairment and health-related quality of life amongst older Australians	Dr Syed Afroz Keramat, Associate Professor Tracy Comans
e	Vanessa Lee	Cognitive impairment and health-related quality of life amongst older Australians	Dr Syed Afroz Keramat, Associate Professor Tracy Comans
f	Yueyao Lin	Eat Walk Engage	Professor Alison Mudge
g	Alexander Zhang	Eat Walk Engage	Professor Alison Mudge
h	Madeleine Cameron	Eat Walk Engage	Professor Alison Mudge

Session 4: Biomedical Research
Chairperson: Dr Joan Li
Zoom Link: <https://uqz.zoom.us/j/86119289099>

	Student Name:	Project Title:	Supervisors
a	Jesse Xie	Norovirus in kidney transplants	Dr Samuel Chan
b	Kiana Ronagh	Are Difficult Drips Dirty Drips? Infection rates associated with ultrasound guided peripheral vascular access	Dr Georgia Livesay
c	Samaar Alva	Clean Catheters for Nasty NOFs: infection rates associated with ultrasound guided fascia iliaca catheters (FICs)	Dr Georgia Livesay
d	Joshua Monteith	Culturing and isolating Pseudomonas O-antigen-specific B cell	Dr Timothy Wells
e	Tamim Islam	Infection in the CNS	Associate Professor Jana Vukovic
f	William Daoyuan Wang	Infection in the CNS	Associate Professor Jana Vukovic
g	Cheng Zhang	A Pilot Study of a Novel Therapeutic Strategy using Hydrogen Gas via Extracorporeal Membrane Oxygenation	Dr Keibun Liu
h	Akash Mudur	Quantification and characterization of microvesicles in a porcine model of traumatic haemorrhage	Dr. Mark Midwinter
i	Sarah Jhetam	Genomics of Lung Cancer	Prof Kwun Fong, Dr Barbara Page

Session 5: Systemic diseases, Biomarkers & Pharmacotherapy
Chairperson: Dr Iulia Oancea
Zoom Link: <https://uqz.zoom.us/j/86483375353>

Student Name:		Project Title:	Supervisors
a	Kenneth Lopez-Loo	Biomarkers for early lung cancer	Professor Kwun Fong, Dr Barbara Page
b	Ho Wun Dominic Chan	Comparison of CNS metabolite markers measured using MR Spectroscopy and Desorption Electrospray Ionization Mass Spectrometry	Dr Nyoman Kurniawan, Dr Brett Hamilton
c	Samuel Walters	Investigating prognostic biomarkers in breast cancer	Associate Professor Peter Simpson
d	Umaiyaall Shanmugaraajah	Investigating prognostic biomarkers in breast cancer	Associate Professor Peter Simpson
e	Timothy Tracey	Targeting metabolic flexibility in ALS (MetFlex); safety and tolerability of trimetazidine for the treatment of ALS	Dr Shyuan Ngo
f	Abirami Somasundaram	Pharmacogenomic project in epilepsy	Dr Lata Vadlamudi
g	Zhen Lin	Low Dose Naltrexone for Fibromyalgia: a randomised controlled trial	Dr Nicholas Aitchison
h	Sara Ahmed	Pulmonary Nodule Assessment Pathway	Prof. Kwun Fong, Dr Barbara Page
i	Patrick Sharkey	Antigen presenting cell response to treatment in early rheumatoid arthritis	Prof. Ranjeny Thomas
j	Emily Herbertson	Dysphagia Management in Infants who are dependent on oxygen support via High Flow Nasal Cannula (HFNC)	Associate Professor Jasneek Chawla, Dr Jeanne Marshall

Session 6: Medical Education and Public health, & Patient care
Chairperson: Dr Gillian McIlwain
Zoom Link: <https://uqz.zoom.us/j/83367462526>

	Student Name:	Project Title:	Supervisors
a	Ahkam Yaqeen Nihardeen	Development of a framework to promote practice and research integration	Dr Priya Martin
b	Punkaja Amarasekera	Investigating methods to describe the hidden curriculum in a graduate medical program	Dr. Charley Greentree & Professor Kirsty Foster
c	Jacob Karamanian	Culture and history of eating disorders represented in the Integrated Pathology Learning Pathology Centre	Dr. Nicole Shephard, Ms. Rebecca Lush
d	Jeff Crocombe	Researching the History of Disease Diagnosis and Treatment	Ms Rebecca Lush
e	Cameron Ding-Farrington	Characterization of haptic feedback during medical procedures	Professor Mark Midwinter; Ms Kyleigh Kriener
f	Shaun Foo	A review of effective advocacy strategies in public health	Dr Katherine Cullerton, Dr Megan Ferguson
g	Gert Olivier	Systematic review peripheral intravenous catheter training programs for medical trainees	Professor Claire Rickard
h	Mark Khair	Clinical guideline implementation for COPD	Professor Ian Yang
i	Claire Blayney	Ergonomics in the Emergency department	Dr Rae Donovan
j	Jessica Hopgood	Becoming a general practitioner/rural generalist supervisor: registrars' and new fellows' perceptions of the incentives, enablers and barriers	Associate Prof Deb Askew

Session 7: Bioinformatics & Programming
Chairperson: Tamara Blake
Zoom Link: <https://uqz.zoom.us/j/82208062461>

	Student Name:	Project Title:	Supervisors
a	Bertha Ching Wai Lam	Developing new insights into disease through big data analysis of essential genes	Associate Professor Jessica Mar
b	Isabel Peters	Developing new insights into disease through big data analysis of essential genes	Associate Professor Jessica Mar
c	Kirill Saulov	Developing new insights into disease through big data analysis of essential genes	Associate Professor Jessica Mar
d	Alvin Yang	Programmable bionanomaterials as rapid response diagnostics and vaccines	Dr. Christopher Howard
e	Anna Victoria Harding	Programmable bionanomaterials as rapid response diagnostics and vaccines	Dr. Christopher Howard
f	Maddison McMorro	Multifaceted approach modelling continuously curved lattices to enhance bone ingrowth	Dr. Deniz Erbulut
g	Shashwat Mishra	Automation of the 3D modelling and corrective anatomical measurements workflow in Lower Limb Malalignment	Dr. Deniz Erbulut
h	Dean Matthysen	Stress analyses of orthopaedic implant with novel scaffold optimized for bone ingrowth	Dr. Deniz Erbulut

Session 8: Bioengineering
Chairperson: Dr Rob Eley
Zoom Link: <https://uqz.zoom.us/j/84709013029>

	Student Name:	Project Title:	Supervisors
a	My Huyen Nghiem	Development of patient matched kidney training models – partial nephrectomy	Dr Rebecca Murray
b	Elizabeth Emma Lee	Development of patient matched kidney training models – partial nephrectomy	Dr Rebecca Murray
c	Bronte Bonython	Development of patient matched kidney training models – partial nephrectomy	Dr Rebecca Murray
d	Samuel Bereza	Zero to Hero: What does it take to learn the DICOM-to-3D-print workflow?	Dr James Novak
d	Lee Kin Long Victor	Zero to Hero: What does it take to learn the DICOM-to-3D-print workflow?	Dr James Novak
e	Miranda Hanson	Sculpting Anatomy and Implants in Virtual Reality	Dr James Novak
f	Alexa van Niekerk	Sculpting Anatomy and Implants in Virtual Reality	Dr James Novak
g	Sophie-Louise	Open Trismus: Open-sourcing a Medical Device for 3D Printing	Dr James Novak
h	Jassy Moore	Project Engage	Dr. Christine Andrews

Session 9: Hospitalisation & Diagnostic imaging
Chairperson: Dr Bruce Lister
Zoom Link: <https://uqz.zoom.us/j/87286984853>

Student Name:		Project Title:	Supervisors
a	Prabasha Thilakaratne	Peer Support for Indigenous people with cancer: a narrative literature review	Associate Professor Janet Xiang-Yu Hou
b	Hayden Bolin	Herbicide Poisoning Across Queensland: a retrospective review	Dr Katherine Isoardi
c	Joanna Tsirgiotis	Reducing The Rays: prevention of unnecessary radiology in complex and frequent users of the Emergency Department	Dr Georgia Livesay, Shane Collett, Dr Rob Eley
d	Paul Endo-Williams	Voxel correlation of PET and MRI with histopathology in the setting of prostate cancer	Dr Georges Mehawed, Dr Rebecca Murray, Dr Matthew Roberts, Dr Nicholas Rukin
e	Kristi Yearwood	Selecting chronic kidney disease patients for magnetic resonance spectroscopy to stratify for disease	Associate Professor Ross Francis, Associate Professor Glenda Gobe
f	Shane Jayatillake	Covid-related PTSD	Dr Rachel Elphinston
g	Aleesha Ganendran	Virtual reality for driving phobia	Dr Rachel Elphinston
h	William Bingham	Admissions Pre and Post COVID	Dr Rachele Elphinston
i	Gi Young Seo	Utility of transferring RACF (Residential Aged Care Facility) patients for CT head	Dr Joyita Bhattacharya