



SCHOOL OF MEDICAL SCIENCES  
HONOURS INTRODUCTORY SEMINARS 10 May - 12 MAY 2021

**Mon 10 May 2021** **GROUP A (Online)**

A1 Chair: George Sharbeen

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Larissa Lloyd	Determining the Mechanism of Tumoural Glutamine Addiction in Triple-Negative Breast Cancer.	Jeff Holst	Kanu Wahi
9:50 AM	Andrea Sevendal	Impact of human genetic variation in the TNFAIP3 gene on cancer	Shane Grey	Meg Barnett
10:10 AM	Tyler Shai-Hee	Characterising the Tumour Microenvironment in High-Grade Glioma	Orazio Vittorio	Federica Saletta
10:30 AM	Surabhi Shrestha	The Impact of Different Laminin Isoforms on Mechanically Activated Currents in Melanoma Cells	Kate Poole	Trevor Lewis
10:50 AM	Alexandra Tonkin	Characterisation and targeting of oncogenic FGF-fusion proteins	Liz Caldon	Jim Blackburn

A2 Chair: John Lock

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Mayeesha Zahin	Experiences of cancer patients dealing with weight loss and/or reduced appetite (Symptoms associated with cachexia)	Tina Naumovski	Mariana Sousa
12:20 PM	Daphne Wang	Do mechanically activated ion channels enable cellular sensing of microgravity?	Kate Poole	Joshua Chou
12:40 PM	Max Liu	Conjunctival Melanoma Disease Presentations and Outcomes	Svetlana Cherepanoff	Elsa Toumi
1:00 PM	Daniya Hasan	Uveal Melanoma Disease Presentation and Outcomes	Svetlana Cherepanoff	Max Conway
1:20 PM	Sarvesa Vijay Singh	Ocular Surface Squamous Neoplasia Disease Presentation and Outcomes	Svetlana Cherepanoff	Christopher Toon

A3 Chair: Goran Strkalj

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Matthew Gunawarman	Targeting Oxidative Stress and Pro-Apoptotic Mechanisms of Chemoresistance in Pancreatic Cancer	Phoebe Phillips	George Sharbeen
2:50 PM	Lily Channon	Pancreatic Cancer Related Diabetes: The Effect of Pancreatic Cancer and Pancreatic Stellate Cell-Derived Exosomes on Peripheral Insulin Resistance	Zhihong Xu	Minoti Apte
3:10 PM	Victoria Tyma	Role of pancreatic cancer cell- and stellate cell-derived exosomes on insulin resistance in mouse hepatocytes: New insights into Pancreatic Cancer-Related Diabetes (PCRD)	Chamini Perera	Minoti Apte
3:30 PM	Yun Cheah	Single-cell Multi-Omics of Circulating Tumour Cells in Pancreatic Cancer	Omid Faridani	Hossein Tavassoli
3:50 PM	Laura Choong	Examination of Altered Lipid Metabolism in Gemcitabine Resistant Pancreatic Ductal Adenocarcinoma	Sarah Hancock	Nigel Turner

**Mon 10 May 2021** **GROUP B (Online)**

B1 Chair: Mee Ling Munier

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Anchita Kishan	Vascular RAGE in gestational diabetes	Timothy Murphy	Lu Liu
9:50 AM	Zalka Azam	The IRONWOMAN study: pilot RCT of intravenous versus oral iron for iron-deficiency anaemia of pregnancy	Amanda Henry	Antonia Shand
10:10 AM	Sean Koizumi	The effect of exercise modalities on C-reactive protein in cancer survivors: a systematic review and network meta-analysis	Mandy Hagstrom	Briana Clifford
10:30 AM	Alexandra Azzi	The effects of growth hormone, testosterone, and erythropoietin doping on physical performance in humans: a systematic review and meta-analysis	Vita Birzniece	Jeanette Thom
10:50 AM	Benjamin Tinker	Studies into a novel combination therapy for treating diabetes-accelerated atherosclerosis	Shane Thomas	Kerry-Anne Rye

B2 Chair: Lu Liu

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Georgia Crowley	Exploring the Binding Kinetics of the $\alpha 1$ adrenoceptors	Angela Finch	Nicola Smith
12:20 PM	Mariah Stavrou	The effect of single nucleotide polymorphisms on the expression and trafficking of the sweet taste receptor	Nicola Smith	Angela Finch
12:40 PM	Max Wu	Mitochondrial uncoupling to maintain proteostasis	Lindsay Wu	Kyle Hoehn
1:00 PM	Jonggul Kim	Nicotinamide adenine dinucleotide (NAD <sup>+</sup> ) treatment for Alcohol Addiction	Asheeta Prasad	Nady Braidy
1:20 PM	Alena Sipka	Investigating the relationship between diet, embryo genotype and de novo NAD synthesis in the mouse conceptus	Sally Dunwoodie	Kayleigh Bozon

B3 Chair: James McAuley

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Miguel Agoncillo	Inhibition of Protein Kinase C epsilon for Treatment of Type 2 Diabetes	Carsten Schmitz-Peiffer	Trevor Biden
2:50 PM	Renee Amo-Appiah	Exploring the dietary regulation of histone acetylation	Nigel Turner	Greg Smith
3:10 PM	Semaah Ampofo	Exploring mitochondrial stress signalling	Nigel Turner	Greg Smith
3:30 PM	Danny Nguyen	Investigating the changes in circulating lipids and metabolites following bariatric surgery	Nigel Turner	Sarah Hancock
3:50 PM	Radmehr Shirzady	The role of mitochondrial calcium homeostasis in endothelial function and phenotype	Shane Thomas	Kerry-Anne Rye

## Tue 11 May 2021

A4 Chair: Kate Poole

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Angela Rejuso	Frailty and hospitalisations in stage 5 CKD patients: a retrospective clinical audit	Jeanette Thom	Ria Arnold
9:50 AM	Peter Lautre	The Paediatric Knee	Nalini Pather	Stanley Serafin
10:10 AM	Luke Corban	Are medium-term clinical, radiographic and survivorship outcomes in mechanically aligned total knee arthroplasty predicted by preoperative Coronal Plane Alignment of the Knee (CPAK) phenotype?	Ashish Diwan	Darren Chen
10:30 AM	sebastian Hahn	Kidney Injury Following Fontan Surgery: The Role of Biomarkers	Zoltan Endre	Jonathan Erlich
10:50 AM	Kevin Hamdard	Falls from ladders in NSW: A data-linkage study	Pooria Sarrami	Ian Harris

A5 Chair: John Lock

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Ema Harada-Krzyzanowska	COVID-19: A natural experiment to identify barriers and facilitators to de-implementation of low-value practices in healthcare	Jane Carland	Deborah Debono
12:20 PM	Jordan Kresnanto	Evaluation of the use of 3D printing in learning zonal anatomy	Nalini Pather	Anneleise Hulme
12:40 PM	Vishal Suresh	The utility and value of St. Vincent's Hospital, Sydney outpatient telepharmacy service: what do we keep in the post-COVID era?	Jane Carland	Sarah Wise
1:00 PM	Kristel Talento	A formative evaluation of a Pharmacist-led Intervention for people with gout (PIN-gout study)	Eindra Aung	Ric Day
1:20 PM	Andrew Tjokrowidjaja	Towards the implementation of pharmacogenomics in healthcare: A retrospective review of clinical utilities	Kathy Wu	Darren Roberts

A6 Chair: George Sharbeen

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Emily Hurley	Development of atrial cardiomyocyte organoid models for the study of atrial fibrillation.	Jamie Vanderberg	Matthew Perry
2:50 PM	Jack Devonshire	Predicting Days to Recovery in Patients with Acute Low Back Pain: A Clinical Prediction Model	James McAuley	Matt Jones
3:10 PM	Toobah Farooqi	Structural dynamics of hyaluronan in the endothelial glycocalyx: Understanding molecular changes during inflammation	Megan Lord	Lu Fu
3:30 PM	Shahd Hassabalnaby	Dissecting the interplay of stem cell signalling with extracellular matrix remodelling in aggressive lung cancer	Thomas Cox	Amelia Parker
3:50 PM	Tony Phu	Ex vivo Airway and Gut Models to Study Host-Microbe Interactions	Shafagh Waters	Nadeem Kaakoush

## Tue 11 May 2021

B4 Chair: Nigel Turner

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Akshay Fernando	Neural coding of somatosensory information in the Dorsal Column Nuclei	Alistair Loufit	Mohit Shivdasani
9:50 AM	Maoling Lim	Effects of Age, Anxiety and Cognitive Load on Trip-induced Balance Recovery	Diana Sturmeiks	Kim van Schooten
10:10 AM	Arya Shinde	Comparing continuous and time-restricted access to cafeteria-style diets on anxiety-like behaviours and metabolic measures in rats	Margaret Morris	Michael Kendig
10:30 AM	Sam Williams	The reliability and validity of the Numerical Pain Rating Scale and the Visual Analogue Scale in low back pain	James McAuley	Matthew Jones
10:50 AM	James Morris*	Effects of hypoxic post-conditioning on the neurovascular unit in adult and neonatal ischemic brain injury	Nicole Jones	Natasha Kumar

(\*) Indicates final Honours seminar

B5 Chair: Joshua McCarroll

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Harrison Hansford	Smallest Worthwhile Effect - Pain	James McAuley	Matthew Jones
12:20 PM	Benjamin Musrie	Investigating the transport of gold nanoparticles in primary sensory neurons: Implication for neuropathic pain treatment	Gila Moalem-Taylor	Guangzhao Mao
12:40 PM	Chiettha Prajnadewie	Investigating neuron-microglia interactions in peripheral neuropathy	Gila Moalem-Taylor	Pascal Carrire
1:00 PM	Jewel Soares	Exploiting afferent neural code to render tactile perception by means of electrical stimulation	Richard Vickery	Ingvars Birzniesks
1:20 PM	Tom Su	Effects of ionic direct current conduction block on spinal cord afferents: A novel approach to chronic pain therapy	Felix Aplin	Jason Potas

B6 Chair: Lu Liu

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Xavier Biala	A medical imaging appraisal of paediatric airway anatomy	Nalini Pather	Daniel Moses
2:50 PM	Rachel Lawrence	The use of ultrasound in anatomy education	Nalini Pather	Joyce El-Haddad
3:10 PM	Rahul Prabhu	The hypertensive heart: medical imaging and radiomics	Nalini Pather	Daniel Moses
3:30 PM	Umair Sheikh	MRI Assessment of the Hepato-biliary Tree	Nalini Pather	Goran Strkalj

## Wed 12 May 2021

A7 Chair: Nigel Turner

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Kaivalya Abburi	Neutrophil Extracellular Traps: function, composition, and macrophage polarisation	Blake Cochran	Kerry-Anne Rye
9:50 AM	Agnes Augusthy	The impact of acute coronary syndrome on high density lipoprotein function and composition	Kerry-Anne Rye	Shane Thomas
10:10 AM	Arian Fanaeian	Development of oral peptide delivery for atherosclerosis progression	Kerry-Anne Rye	Pall Thordarson
10:30 AM	Michael Burnard	Impact of peptide treatment on the microbiome in mice with diabetes-accelerated atherosclerosis	Kerry-Anne Rye	Nadeem Kaakoush
10:50 AM	Tamara Kort	Impact of peptide treatment on the microbiome in mice with diabetes-accelerated atherosclerosis	Kerry-Anne Rye	Nadeem Kaakoush

A8 Chair: Mee Ling Munier

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Alyza Basas	Characterisation of host- and microbiota-derived extracellular vesicles in endometriosis	Fatima El-Assaad	Emad El-Omar
12:20 PM	Phoebe Butler	Evolution of the Female Microbiome from Preconception to Birth	Emad El-Omar	Fatima El-Assaad
12:40 PM	Sabrina Koentgen	The Microbiome and inflammation in first-degree relatives of Inflammatory bowel disease	Georgina Hold	
1:00 PM	Lillian Mills	The effect of proton pump inhibitors on the gut microbiome and its role in Alzheimer's disease	Emad El-Omar	Fatima El-Assaad
1:20 PM	Emily Ward	Characterising the population of viruses contributing to Type 1 Diabetes	Ki Wook Kim	Maria Craig

A9 Chair: Kate Poole

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Ashley McMurray	The Genetic Control of Inflammation	Shane Grey	David Croucher
2:50 PM	Joshua Arena	Development of RNAi Therapeutics Targeting Epstein-Barr Virus	Chantelle Ahlenstiel	Sanjay Swaminathan
3:10 PM	Annabelle Beach	Investigating the Impact of the Biological Inhibitor, Dupilumab, on Individuals with Atopic Disease	Cindy Ma	Stuart Tangye
3:30 PM	Umar Riaz	The role of Tissue resident memory T (TRM) cells in respiratory sepsis outcomes	Sarah Sasson	C. Mee Ling Munier

## Wed 12 May 2021

B7 Chair: James McAuley

Time	Student Name	Project Title	Supervisor	Co-Supervisor
9:30 AM	Niamh Crow	Preclinical development of a novel therapy for poor-prognosis leukaemia	Jenny Y Wang	Nunki Hassan
9:50 AM	Leith Elhassadi	Identifying synergistic therapeutic combinations with the BCL2 inhibitor venetoclax for high-risk neuroblastoma	Alvin Kamili	Caroline Atkinson
10:10 AM	Pranav Chauhan	Using CRISPR/Cas9 to model the novel FGFR1-ERC1 fusion gene identified in paediatric high-grade glioma	Paul Ekert	Lauren Brown
10:30 AM	Sayali Gore	Investigating the targeted elimination of stem cells in acute myeloid leukaemia	Jenny Wang	Nunki Hassan
10:50 AM	Tommy Seo	Targeting the FAT1 cadherin in paediatric acute lymphoblastic leukaemia	Charles De Bock	Sofia Omari

B8 Chair: Joshua McCarroll

Time	Student Name	Project Title	Supervisor	Co-Supervisor
12:00 PM	Annabelle Warrenner	Developing mouse models for High Risk Neuroblastoma metastasis using bioluminescent patient derived cells	Caroline Atkinson	Moonsun Jung
12:20 PM	Shoshana Herz	Targeting transcriptional super-enhancers for the therapy of neuroblastoma	Tao Liu	Matthew Wong
12:40 PM	Mengfei Chen	Dissecting the pathogenesis of coeliac disease using single cell genomics: from bench to computers and back	Fabio Luciani	Mee Ling Munier
1:00 PM	Patrick Hawker	Mas-related G protein-coupled receptors as a potential novel target for modulating inflammatory bowel disease	Lu Liu	Li Zhang
1:20 PM	Rachel Kim	The effect of the microbiome on the intestinal immune microenvironment and liver cancer development	Amany Zekry	Julia Beretov

B9 Chair: Goran Strkalj

Time	Student Name	Project Title	Supervisor	Co-Supervisor
2:30 PM	Margaret Zhang	Interplay between host factors and drugs in HIV capsid uncoating and reverse transcription	Till Boecking	Jacques David
2:50 PM	Vargha Khosh Aein	Evolutionary history of human immunodeficiency virus 1 (HIV-1) in New South Wales	Francesca Di Giallonardo	Anthony Kelleher
3:10 PM	Yingshi Li	Enteric Virome in Colorectal Cancer	Chi Ho Howard Yim	Jiang Xiaotao
3:30 PM	Tiana Wang	Development of RNAi therapeutics targeting Human T cell Leukaemia Virus type 1	Chantelle Ahlenstiel	Francesca Di Giallonardo