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####

**Faculty of Medicine**

**School of Medical Sciences**

Research Information Session

27th August 2020, 3 – 5pm

Potential Research Projects for 2021

(Honours, Masters, PhD)

Contents

[Applied Anatomy and Imaging Projects 6](#_Toc49796706)

[Biomechanics Projects 7](#_Toc49796707)

[Active and Healthy Ageing (Honours/Masters/PhD) 7](#_Toc49796708)

[Biomechanics of ballet: the effect of aesthetic movement demands on performance and injury risk (Honours/Masters/PhD) 7](#_Toc49796709)

[Can we lower fall risk in older people by better understanding the influence of cognition and anxiety on balance control? (Honours/Masters/PhD) 7](#_Toc49796710)

[Does biomechanical symmetry in gait improve outcomes for unilateral prosthetic device users? (Honours/Masters/PhD) 7](#_Toc49796711)

[Multi-objective control: what are the principal determinants of human gait selection behaviours? (Honours/Masters/PhD) 7](#_Toc49796712)

[Why do we choose our walking speeds and step frequencies? (Honours/Masters/PhD) 7](#_Toc49796713)

[Cancer Projects 8](#_Toc49796714)

[Cannabis and/or cachexia (Honours/Masters) 8](#_Toc49796715)

[Characterising the molecular diversity of pancreatic cancer: Personalised medicine in action (Honours/Masters) 8](#_Toc49796716)

[Conjunctival melanoma disease presentations and outcomes (Honours/Masters/PhD) 8](#_Toc49796717)

[Developing in vivo models for metastatic high-risk neuroblastoma (Honours/Masters/PhD) 8](#_Toc49796718)

[Developing mouse models for high-risk neuroblastoma metastasis using bioluminescent patient-derived cells (Honours) 8](#_Toc49796719)

[Developing albumin-based nanoparticles that overcome drug resistance and metastasis (Honours/Masters/PhD) 9](#_Toc49796720)

[Digital archiving and online medical education of ageing and age-related macular degeneration (Honours/Masters/PhD) 9](#_Toc49796721)

[Dissecting the role of endoplasmic reticulum stress in cancer cell progression and metastasis in the tumour microenvironment (Honours/Masters/PhD) 9](#_Toc49796722)

[Enhancing the anticancer efficacy of transcriptional super-enhancer inhibitors (Honours/Masters/PhD) 9](#_Toc49796723)

[Genome-wide analysis of novel long noncoding RNAs critical for cancer initiation (Honours/Masters/PhD) 9](#_Toc49796724)

[Identifying metabolic vulnerabilities in pancreatic cancer (Honours/PhD) 9](#_Toc49796725)

[Improving therapy for high-risk neuroblastoma through bypass or inhibition of P-glycoprotein (Honours) 10](#_Toc49796726)

[Investigating immunotherapeutic strategies in DIPG – understanding tumour microenvironment in DIPG (Honours/ PhD) 10](#_Toc49796727)

[Investigating the biology of novel fusion oncogenes in paediatric cancer (Honours/ PhD) 10](#_Toc49796728)

[MRI guided cardiac radio-ablation for end stage ventricular tachycardia (Honours/Masters) 10](#_Toc49796729)

[Novel strategies to starve cancer cells (Honours/PhD) 10](#_Toc49796730)

[Ocular surface squamous neoplasia disease presentation and outcomes (Honours/Masters/PhD) 10](#_Toc49796731)

[Personalised adaptive radiotherapy using a Magnetic Resonance Guided Linear Accelerator (Honours/Masters) 10](#_Toc49796732)

[Single-cell multi-omics of circulating tumour cell in pancreatic cancer (Honours/Masters/PhD) 11](#_Toc49796733)

[Targeting BCL2 family proteins in high-risk neuroblastoma (Honours) 11](#_Toc49796734)

[Targeting the FAT1 cadherin in paediatric acute lymphoblastic leukaemia (Honours/PhD) 11](#_Toc49796735)

[The microbiome, immunity and oesophageal adenocarcinoma (Honours/Masters/PhD) 11](#_Toc49796736)

[The role of microbiome in the pathogenesis of colon cancer (Honours) 11](#_Toc49796737)

[Uveal melanoma molecular prognostication (Honours/Masters/PhD) 11](#_Toc49796738)

[Uncovering 3D Genome Architecture in Cancer (Honours/Masters/PhD) 11](#_Toc49796739)

[Using Big Data to reduce variation in radiotherapy (Honours) 12](#_Toc49796740)

[Cell Biology and Stem Cells Projects 13](#_Toc49796741)

[Exploring the role of mitochondria as signalling organelles (Honours/PhD) 13](#_Toc49796742)

[Understanding the pathophysiology of the mammalian cornea through in vitro culture systems, animal models and novel sight-restoring stem cell therapies to treat patients with blindness (Honours/PhD/Masters) 13](#_Toc49796743)

[Cellular & Systems Physiology Projects 14](#_Toc49796744)

[Does cellular elasticity play a role in cardiovascular disease? (Honours/PhD/Masters) 14](#_Toc49796745)

[Role of the Microbiome in Diabetes-accelerated Atherosclerosis (Honours/PhD/Masters) 14](#_Toc49796746)

[Visualizing neuronal transport function: using live cell imaging to quantify KCC2 activity and modulation (Honours/PhD/Masters) 14](#_Toc49796747)

[Clinical & Education Projects 15](#_Toc49796748)

[Assessing equity of Universal Health Coverage Reforms: From Data to Decision-making (PhD/Masters) 15](#_Toc49796749)

[Bioarchaeological investigation of ancient Mayan skeletal remains in Mexico (Honours/PhD/Masters) 15](#_Toc49796750)

[Characterising the population of viruses that influence outcomes of pregnancy and infant health (Honours/PhD/Masters) 15](#_Toc49796751)

[Chronic Kidney Disease – Enabling Exercise Therapy to Reduce Burden (Honours) 15](#_Toc49796752)

[Clinical Diabetes, Appetite and Metabolism – Garvan (Honours/PhD/Masters) 15](#_Toc49796753)

[Clinical Pharmacology & Toxicology - Optimal Use of Medicines (Honours/PhD/Masters) 16](#_Toc49796754)

[Forensic investigation of the ancestry and origins of human skeletal remains in the Department of Anatomy (Honours/PhD/Masters) 16](#_Toc49796755)

[Quality Use of Medicines (Honours/PhD/Masters) 16](#_Toc49796756)

[Inflammation, Immunology & Infection Projects 17](#_Toc49796757)

[Antibody responses in COVID-19 (Honours/Masters/PhD) 17](#_Toc49796758)

[Bioinformatic approaches to study gene interactions on the X-chromosome (Honours /PhD) 17](#_Toc49796759)

[Characterising the longitudinal virome of children at risk of developing type 1 diabetes (Honours/Masters/PhD) 17](#_Toc49796760)

[Dissecting the pathogenesis of coeliac disease using single cell genomics: from bench to computers and back (Honours/Masters/PhD) 17](#_Toc49796761)

[Epidemiology, surveillance and whole-genome sequencing of respiratory viruses in NSW (Honours) 17](#_Toc49796762)

[Evaluating LILRA3 as a novel anti-inflammatory agent for treatment of acute lung injury in a mouse model 18](#_Toc49796763)

[Evolutionary history of human immunodeficiency virus 1 (HIV-1) in New South Wales (Honours/Masters/PhD) 18](#_Toc49796764)

[Gene therapy targeting virus infections (Honours/Masters/PhD) 18](#_Toc49796765)

[Human immune tuning: Understanding the genetic basis for health, cancer and Inflammatory disease (Honours/Masters/PhD) 18](#_Toc49796766)

[Identification of novel biomarkers in blood and exhaled breath of patients with respiratory diseases 18](#_Toc49796767)

[Investigating T cell decision making using novel super-resolution imaging probes (Honours/PhD) 18](#_Toc49796768)

[Investigating T cell decision making using super-resolution microscopy (Honours/PhD) 19](#_Toc49796769)

[Molecular arms race between host and virus (Honours/PhD) 19](#_Toc49796770)

[Profiling immune cell behaviour via single cell sequencing and live-cell imaging (Honours/PhD) 19](#_Toc49796771)

[Studies of viral pathogenesis (Honours Masters PhD) 19](#_Toc49796772)

[The role of the microbiome in the pathogenesis of endometriosis (Honours/Masters/PhD) 19](#_Toc49796773)

[The role of Tissue Resident Memory T cells in control of HPV-driven anal cancer (Honours/Masters/PhD) 19](#_Toc49796774)

[Respiratory Sepsis (Honours/Masters/PhD) 19](#_Toc49796775)

[Metabolism & Energy Projects 20](#_Toc49796776)

[Altering NAD biosynthesis to improve metabolism (Honours/PhD) 20](#_Toc49796777)

[Complications of type-2 diabetes (Honours) 20](#_Toc49796778)

[Investigating effects of diet-induced obesity on metabolic health (Honours) 20](#_Toc49796779)

[Manipulating sphingolipid metabolism to prevent obesity and diabetes (Honours/PhD) 20](#_Toc49796780)

[Mitochondrial uncoupling drugs to maintain protein folding in old age (Honours/Masters/PhD) 20](#_Toc49796781)

[My knees are creaky: have I got arthritis? An exercise and education intervention to support self-management of knee joint symptoms (Honours/Masters/PhD) 20](#_Toc49796782)

[Old age and metabolism in innate immunity and coronavirus infection (Honours/Masters/PhD) 20](#_Toc49796783)

[Targeting Protein Kinase C epsilon for the Treatment of Type 2 Diabetes (Honours) 21](#_Toc49796784)

[Molecular & Drug Discovery Projects 22](#_Toc49796785)

[Molecular Pharmacology of G Protein-Coupled Receptors (Honours) 22](#_Toc49796786)

[Molecular pharmacology of G protein-coupled receptors (Honours/PhD) 22](#_Toc49796787)

[Therapeutic targets for inflammatory bowel and bladder diseases (Honours/Masters/PhD) 22](#_Toc49796788)

[Neuroscience Projects 23](#_Toc49796789)

[Acquired Brain Injury and hearing loss drug and DNA therapeutics (Honours/Masters/PhD) 23](#_Toc49796790)

[Examining the downstream targets of brain chemoreceptor neurons using an anterograde trans-synaptic viral tracer (HSV129) (Honours/Masters/PhD) 23](#_Toc49796791)

[Investigating the effects of diet on the brain and behaviour (Honours) 23](#_Toc49796792)

[Mild hypoxia (or drugs which mimic hypoxia) as a neuroprotective strategy for stroke or neonatal brain injury (Honours/Masters/PhD) 23](#_Toc49796793)

[Modulation of septal brain circuits (Honours) 23](#_Toc49796794)

[Neural coding in human touch (Honours/Masters/PhD) 23](#_Toc49796795)

[Neuroimmune cross-talk following nervous system injury: Implications for chronic pain (Honours/Masters/PhD) 24](#_Toc49796796)

[Structure and function of ligand gated ion channels (Honours/PhD) 24](#_Toc49796797)

[The role of the microbiome in neuroinflammation and dementia (Honours/Masters/PhD) 24](#_Toc49796798)

[Understanding the somatosensory nervous system to manipulate sensorimotor function (Honours/Masters/PhD) 24](#_Toc49796799)

# Applied Anatomy and Imaging Projects

Applied Anatomy and Imaging – see topics on Poster (Honours/Masters/PhD)

#### **Professor Nalini Pather**

#### n.pather@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee_2s8VZ2gxNoKStUO-1_gUBegl1UAmW6zD7wM5b7Hu07A?e=XXMsbU)

#### Video Link – (TBA)

#### Live Zoom Link – (TBA)

# Biomechanics Projects

### Active and Healthy Ageing (Honours/Masters/PhD)

#### **Dr Kim van Schooten / Associate Professor Delbaere**

#### mailto:k.vanschooten@neura.edu.au

#### Neuroscience Research Australia

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWvaG0CWgRtFkIFUmxJiELsBlQzUhvO8riVeaslpZA99VA?e=KpqtAO)

#### Video Link – (TBA)

### Biomechanics of ballet: the effect of aesthetic movement demands on performance and injury risk (Honours/Masters/PhD)

#### **Dr Rachel Ward**

#### rachel.ward@unsw.edu.au

#### School of Medical Sciences

#### Live Zoom Link – (TBA)

### Can we lower fall risk in older people by better understanding the influence of cognition and anxiety on balance control? (Honours/Masters/PhD)

#### **Dr Kirsty McDonald**

#### kirsty.mcdonald@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ET0cQysdcnFNt5d8hd135AcBs8QC2UfeIZqw1JHVkYIf0w?e=853zAG)

#### [Live Zoom Link](https://unsw.zoom.us/j/91891307334)

### Does biomechanical symmetry in gait improve outcomes for unilateral prosthetic device users? (Honours/Masters/PhD)

#### **Dr Kirsty McDonald**

#### kirsty.mcdonald@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ET0cQysdcnFNt5d8hd135AcBs8QC2UfeIZqw1JHVkYIf0w?e=853zAG)

#### [Live Zoom Link](https://unsw.zoom.us/j/91891307334)

### Multi-objective control: what are the principal determinants of human gait selection behaviours? (Honours/Masters/PhD)

#### **Dr Kirsty McDonald**

#### kirsty.mcdonald@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ET0cQysdcnFNt5d8hd135AcBs8QC2UfeIZqw1JHVkYIf0w?e=853zAG)

#### [Live Zoom Link](https://unsw.zoom.us/j/91891307334)

### Why do we choose our walking speeds and step frequencies? (Honours/Masters/PhD)

#### **Dr Kirsty McDonald**

#### kirsty.mcdonald@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ET0cQysdcnFNt5d8hd135AcBs8QC2UfeIZqw1JHVkYIf0w?e=853zAG)

#### [Live Zoom Link](https://unsw.zoom.us/j/91891307334)

# Cancer Projects

### Cannabis and/or cachexia (Honours/Masters)

#### **Dr Tina Naumovski**

#### v.naumovski@unsw.edu.auSouth Western Sydney Clinical School

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVKtQaeCH1ROt03C1H7BYUkBA6anbxeNy2kBIDQY7xHVtw?e=eu8GhO)

### Characterising the molecular diversity of pancreatic cancer: Personalised medicine in action (Honours/Masters)

#### **Dr Sean Porazinski**

#### s.porazinski@garvan.org.au

#### Garvan Institute of Medical Research

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVSbteYcvQ9Fv0AAq-a9fDwBrDPG-Cfw4dDamVGzzWHhlQ)

### Conjunctival melanoma disease presentations and outcomes (Honours/Masters/PhD)

#### **Dr Svetlana Cherepanoff**

#### svetlana.cherepanoff@svha.org.au

#### St Vincent’s Hospital Sydney

#### Live Zoom Link – (TBA)

### Developing in vivo models for metastatic high-risk neuroblastoma (Honours/Masters/PhD)

#### **Dr Caroline Atkinson**

#### cakinson@ccia.org.au

#### Children's Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWAhLrc1UpBPgVPn45dyqEIBirmE7CwK5DLRHwrKGXTjlA)

#### [Live Zoom Link](https://unsw.zoom.us/j/93869070997)

### Developing mouse models for high-risk neuroblastoma metastasis using bioluminescent patient-derived cells (Honours)

#### **Dr MoonSun Jung**

#### mjung@ccia.org.au

#### Children's Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWAhLrc1UpBPgVPn45dyqEIBirmE7CwK5DLRHwrKGXTjlA)

#### [Live Zoom Link](https://unsw.zoom.us/j/93869070997)

### Developing albumin-based nanoparticles that overcome drug resistance and metastasis (Honours/Masters/PhD)

#### **Dr Angelica Merlot**

#### a.merlot@unsw.edu.au

#### Children's Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EW_1D5NVgXxNvTF-GjBxBMYBvLabJPpHSGRXqUYaH0umGA?e=nBtcbV)

### Digital archiving and online medical education of ageing and age-related macular degeneration (Honours/Masters/PhD)

#### **Dr Svetlana Cherepanoff**

#### svetlana.cherepanoff@svha.org.au

#### St Vincent’s Hospital Sydney

#### Live Zoom Link – (TBA)

### Dissecting the role of endoplasmic reticulum stress in cancer cell progression and metastasis in the tumour microenvironment (Honours/Masters/PhD)

#### **Dr Angelica Merlot**

#### a.merlot@unsw.edu.au

#### Children's Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ERYNIznEezxBruYsCJ7FlBABBjt-lV0ghu04V2nAg_q-CA?e=d2OnyG)

### Enhancing the anticancer efficacy of transcriptional super-enhancer inhibitors (Honours/Masters/PhD)

#### **Associate Professor Tao Liu**

#### tliu@ccia.unsw.edu.au

#### Children's Cancer Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EUsSR99kSXtEl8xlr14yMuIBM0UKhGtTP9AwWDrCYDsDUw?e=ZK3dXD)

#### [Live Zoom Link](https://ccia.zoom.us/j/94474470804?pwd=K0RxK05WeVdsTXNGZzdDT0pmTXlFdz09) (password: 170495)

### Genome-wide analysis of novel long noncoding RNAs critical for cancer initiation (Honours/Masters/PhD)

#### **Associate Professor Tao Liu**

#### tliu@ccia.unsw.edu.au

#### Children's Cancer Institute

#### Poster Link

[*Live Zoom Link*](https://ccia.zoom.us/j/94474470804?pwd=K0RxK05WeVdsTXNGZzdDT0pmTXlFdz09) *(password: 170495)*

### Identifying metabolic vulnerabilities in pancreatic cancer (Honours/PhD)

#### **Professor Nigel Turner**

#### n.turner@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee6rosJvsvNHjOgWzPAkV18B5EuK9JXt_lvVVO19GvQ0-Q)

#### Video Link (TBA)

### Improving therapy for high-risk neuroblastoma through bypass or inhibition of P-glycoprotein (Honours)

#### **Dr Alvin Kamili**

#### AKamili@ccia.org.au

#### Children’s Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWAhLrc1UpBPgVPn45dyqEIBirmE7CwK5DLRHwrKGXTjlA)

#### [Live Zoom Link](https://unsw.zoom.us/j/93869070997)

### Investigating immunotherapeutic strategies in DIPG – understanding tumour microenvironment in DIPG (Honours/ PhD)

#### **Dr Orazio Vittorio**

#### Ovittorio@ccia.org.au

#### Children's Cancer Institute

#### Live Zoom Link – (TBA)

### Investigating the biology of novel fusion oncogenes in paediatric cancer (Honours/ PhD)

#### **Associate Professor Paul Ekert**

#### pekert@ccia.org.au

#### Children's Cancer Institute

[Live Zoom Link](https://unimelb.zoom.us/j/97672169989?pwd=VUNKbU9tSy8ydXR6V1BNRnhBdUJVUT09) Password: 876729

### MRI guided cardiac radio-ablation for end stage ventricular tachycardia (Honours/Masters)

#### **Dr Michael Jameson**

#### m.jameson@unsw.edu.au

#### St Vincent's Clinical School

#### Live Zoom Link – (TBA)

### Novel strategies to starve cancer cells (Honours/PhD)

#### **Associate Professor Jeff Holst**

#### j.holst@unsw.edu.au

#### Adult Cancer Program

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EQBJXwlI9PRMipzxsQv_LgoB2AGicUrTJRaXU-eQeXHdLw?e=bXlhRt)

#### [Live Zoom Link](https://unsw.zoom.us/j/96417259173)

### Ocular surface squamous neoplasia disease presentation and outcomes (Honours/Masters/PhD)

#### **Dr Svetlana Cherepanoff**

#### svetlana.cherepanoff@svha.org.au

#### St Vincent’s Hospital Sydney

#### Live Zoom Link – (TBA)

### Personalised adaptive radiotherapy using a Magnetic Resonance Guided Linear Accelerator (Honours/Masters)

#### **Dr Michael Jameson**

#### m.jameson@unsw.edu.au

#### St Vincent's Clinical School

#### Live Zoom Link – (TBA)

### Single-cell multi-omics of circulating tumour cell in pancreatic cancer (Honours/Masters/PhD)

#### **Dr Omid Faridani**

#### o.faridani@unsw.edu.au

####  Adult Cancer Program

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ecdnzl-tOmJOnrQLIJ6t-psBUwCLKLnpWtZKerQcE-Ilbg)

#### [Live Zoom Link](https://unsw.zoom.us/j/92716642896)

### Targeting BCL2 family proteins in high-risk neuroblastoma (Honours)

#### **Dr Caroline Atkinson/ Dr Alvin Kamili**

#### CAtkinson@ccia.org.au or akamili@ccia.org.au

#### Children's Cancer Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWAhLrc1UpBPgVPn45dyqEIBirmE7CwK5DLRHwrKGXTjlA)

#### [Live Zoom Link](https://unsw.zoom.us/j/93869070997)

### Targeting the FAT1 cadherin in paediatric acute lymphoblastic leukaemia (Honours/PhD)

#### **Dr Charles de Bock**

#### cdebock@ccia.org.au

#### Children's Cancer Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EezjhxAwaN1Br1HzfnOwKfUBmMm2_aphMLAJ48OnJ9mfNg)

#### [Video Link](https://www.dropbox.com/s/iuk7qqce6smsmte/honours%20pitch_de%20bock.MOV?dl=0)

#### [Live Zoom Link](https://unsw.zoom.us/j/99688124685?pwd=V01Dd0doNmdnU1BOc1RKWHRyL1dSQT09) (password: 983857)

### The microbiome, immunity and oesophageal adenocarcinoma (Honours/Masters/PhD)

#### **Dr Nadeem Kaakoush**

#### n.kaakoush@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EZzrJGdJ8wxKju3cqyZFjgMBq89R4fPKkCLbqwsqeazfWw)

### The role of microbiome in the pathogenesis of colon cancer (Honours)

#### **Dr Howard Yim and Professor Emad El-Omar**

#### c.yim@unsw.edu.au / e.el-omar@unsw.edu.au

#### St George & Sutherland Clinical School

#### Poster Link – (TBA)

### Uveal melanoma molecular prognostication (Honours/Masters/PhD)

#### **Dr Svetlana Cherepanoff**

#### svetlana.cherepanoff@svha.org.au

#### St Vincent’s Hospital Sydney

#### Live Zoom Link – (TBA)

### Uncovering 3D Genome Architecture in Cancer (Honours/Masters/PhD)

#### **Dr Joanna Achinger-Kawecka**

#### j.achinger@garvan.org.au

#### Garvan Institute of Medical

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EUInGyMvtF5CukNjiKCBo9YBTZVdDrwhZWvz-eeg7nMXHA)

[*Live Zoom Link*](https://garvan.zoom.us/j/93538261693) password: 193364

### Using Big Data to reduce variation in radiotherapy (Honours)

#### **Dr Vikneswary Batumalai**

#### vikneswary.batumalai@health.nsw.gov.au

#### South Western Sydney Clinical School

#### Poster Link TBA

# Cell Biology and Stem Cells Projects

### Exploring the role of mitochondria as signalling organelles (Honours/PhD)

#### **Professor Nigel Turner**

#### n.turner@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee6rosJvsvNHjOgWzPAkV18B5EuK9JXt_lvVVO19GvQ0-Q)

#### Video Link – (TBA)

#### Live Zoom Link – (TBA)

### Understanding the pathophysiology of the mammalian cornea through in vitro culture systems, animal models and novel sight-restoring stem cell therapies to treat patients with blindness (Honours/PhD/Masters)

#### **Professor Nick Di Girolamo**

#### n.digirolamo@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EZ_ELgQrv9dHsd1EggpaYnsBY9MYnJNypPJ1NkeQyoYp6Q?e=hIBCmj)

# Cellular & Systems Physiology Projects

### Does cellular elasticity play a role in cardiovascular disease? (Honours/PhD/Masters)

#### **Dr Blake Cochran**

#### b.cochran@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EX15a8SHuThHiHG_UAhrbOUB2vHfBn6KhG0j051f7m-YDg)

#### Video Link

#### [Live Zoom Link](https://unsw.zoom.us/j/96071060088)

### Role of the Microbiome in Diabetes-accelerated Atherosclerosis (Honours/PhD/Masters)

#### **Prof. Kerry-Anne Rye**

#### k.rye@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EX15a8SHuThHiHG_UAhrbOUB2vHfBn6KhG0j051f7m-YDg)

#### Video Link – (TBA)

#### [Live Zoom Link](https://unsw.zoom.us/j/96071060088)

### Visualizing neuronal transport function: using live cell imaging to quantify KCC2 activity and modulation (Honours/PhD/Masters)

#### **Associate Professor Andrew Moorhouse**

#### a.moorhouse@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Efrj4I9MFthNtEby8t5eEOwBA2Vw_Tgwq9q1sXDb59Ly2Q?e=dedXIz)

#### [Live Zoom Link](https://unsw.zoom.us/j/99398212647)

# Clinical & Education Projects

### Assessing equity of Universal Health Coverage Reforms: From Data to Decision-making (PhD/Masters)

#### **Dr Devaki Nambiar**

#### dnambiar@georgeinstitute.org.in

#### The George Institute for Global Health, India

#### Poster Link – (TBA)

#### Video Link – (TBA)

#### Live Zoom Link – (TBA)

### Bioarchaeological investigation of ancient Mayan skeletal remains in Mexico (Honours/PhD/Masters)

#### **Dr Stanley Serafin**

#### s.serafin@unsw.edu.au

#### School of Medical Science

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWmd4b_PUtVGloSq0Kn1ptEBS50tgYxrZ_PB_kwwrHGYXg)

#### [Live TEAMS Link](https://teams.microsoft.com/dl/launcher/launcher.html?type=meetup-join&deeplinkId=2f8f07c4-09ab-4dfb-b4ef-c499723a0af1&directDl=true&msLaunch=true&enableMobilePage=true&url=%2F_%23%2Fl%2Fmeetup-join%2F19%3A7085ef105faf4a9295ace2f0fe6697b5@thread.tacv2%2F1590123734340%3Fcontext%3D%257b%2522Tid%2522%253a%25223ff6cfa4-e715-48db-b8e1-0867b9f9fba3%2522%252c%2522Oid%2522%253a%2522372a01e9-ff3e-487a-b0a9-7fba3aec46f8%2522%257d%26anon%3Dtrue&suppressPrompt=true)

### Characterising the population of viruses that influence outcomes of pregnancy and infant health (Honours/PhD/Masters)

#### **Dr. Ki Wook Kim**

#### k.w.kim@unsw.edu.au

#### Virology Research Lab, POW

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EZYbyHk1JTRPqOW-eRDUFUEBURfY9FKY-NIF11HV9stJfg)

#### [Video Link](https://unsw-my.sharepoint.com/%3Av%3A/g/personal/z3512247_ad_unsw_edu_au/Efab3B29gK5PvsJCE4oJZ-cBv0gX9e2PcDiTe0dssm5BIg)

#### [Live Zoom Link](https://unsw.zoom.us/j/97339363435)

### Chronic Kidney Disease – Enabling Exercise Therapy to Reduce Burden (Honours)

#### **Dr Ria Arnold**

#### r.arnold@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ESgKTXeymwZNqxHlBfRtbOYBM88KM7bPIjfw84uCcDPopw)

####  [Live Zoom Link](https://unsw.zoom.us/j/98467355136)

### Clinical Diabetes, Appetite and Metabolism – Garvan (Honours/PhD/Masters)

#### **Associate Professor Roger Chen**

#### r.chen@garvan.org.au

#### St Vincent's Clinical School

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EdxET-cPWU9KvVTO9PBPNJcBM1YIJ0aG50JcMLQZbBk_sg)

#### Live Zoom Link – (TBA)

### Clinical Pharmacology & Toxicology - Optimal Use of Medicines (Honours/PhD/Masters)

#### **Professor Ric Day**

#### r.day@unsw.edu.au

#### St Vincent's Clinical School

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EdbxCzLO8AlJq2P9XZE0ZuYBOEynrdyfYSKJIIHQiaIgbQ)

#### [Live Zoom Link](https://unsw.zoom.us/j/96981678052?from=msft)

### Forensic investigation of the ancestry and origins of human skeletal remains in the Department of Anatomy (Honours/PhD/Masters)

#### **Dr Stanley Serafin**

#### s.serafin@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWmd4b_PUtVGloSq0Kn1ptEBS50tgYxrZ_PB_kwwrHGYXg)

#### [Live TEAMS Link](https://teams.microsoft.com/dl/launcher/launcher.html?type=meetup-join&deeplinkId=2f8f07c4-09ab-4dfb-b4ef-c499723a0af1&directDl=true&msLaunch=true&enableMobilePage=true&url=%2F_%23%2Fl%2Fmeetup-join%2F19%3A7085ef105faf4a9295ace2f0fe6697b5@thread.tacv2%2F1590123734340%3Fcontext%3D%257b%2522Tid%2522%253a%25223ff6cfa4-e715-48db-b8e1-0867b9f9fba3%2522%252c%2522Oid%2522%253a%2522372a01e9-ff3e-487a-b0a9-7fba3aec46f8%2522%257d%26anon%3Dtrue&suppressPrompt=true)

### Quality Use of Medicines (Honours/PhD/Masters)

#### **Dr Jane Carland**

#### j.carland@unsw.edu.au

#### St Vincent's Clinical School

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EWBwwpUDoEhHiEYqtel4uSIBIni0W3EomNhnk1xx5_uYYg)

#### [Live Zoom Link](https://unsw.zoom.us/j/96981678052?from=msft)

# Inflammation, Immunology & Infection Projects

### Antibody responses in COVID-19 (Honours/Masters/PhD)

#### **Associate Professor Rowena Bull**

#### r.bull@unsw.edu.au

####  School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EQsvnmnZgupKtrWGJcbtK3cBucZAIadViFM_CTr-PxLf8A)

#### [Live Zoom Link](https://unsw.zoom.us/j/91387892212)

### Bioinformatic approaches to study gene interactions on the X-chromosome (Honours /PhD)

#### **Dr Sara Ballouz**

#### s.ballouz@garvan.org.au

#### Garvan Institute of Medical Research

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Eb2HCJz9kT9AkhIkeX3omrABSYXdPZD9ZEqJXM7fLQSQYg)

 [*Live Zoom Link*](https://garvan.zoom.us/j/4976381214) *Password: 82254*

### Characterising the longitudinal virome of children at risk of developing type 1 diabetes (Honours/Masters/PhD)

#### **Prof. Maria Craig**

#### m.craig@unsw.edu.au

#### Virology Research Laboratory, Prince of Wales Hospital

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EZYbyHk1JTRPqOW-eRDUFUEBURfY9FKY-NIF11HV9stJfg)

#### [Video Link](https://unsw-my.sharepoint.com/%3Av%3A/g/personal/z3512247_ad_unsw_edu_au/Efab3B29gK5PvsJCE4oJZ-cBv0gX9e2PcDiTe0dssm5BIg)

####  [Live Zoom Link](https://unsw.zoom.us/j/97339363435)

### Dissecting the pathogenesis of coeliac disease using single cell genomics: from bench to computers and back (Honours/Masters/PhD)

#### **Associate Professor Fabio Luciani**

#### luciani@unsw.edu.au

#### Kirby Institute

#### [Poster link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ETZw4PI_x-FNiH96E4v3iF0BG_JVCVFGAIcRkO3PRphNmQ)

[Live Zoom Link](https://unsw.zoom.us/j/4536288344)

### Epidemiology, surveillance and whole-genome sequencing of respiratory viruses in NSW (Honours)

#### **Dr Sacha Stelzer-Braid**

#### s.stelzer-braid@unsw.edu.au

#### Prince of Wales Hospital

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EeTKAiE-aw9IkQNftGU3EzoBizi6QcWg_3K8IKNPFU0K7w)

### Evaluating LILRA3 as a novel anti-inflammatory agent for treatment of acute lung injury in a mouse model

#### A/Prof Cristan Herbert and Prof Nicodemus Tedla

#### C.Herbert@unsw.edu.au / N.Tedla@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EbYL_4mSIVRAo2o9Vwo9bZMB1hC28EApj2tpavXBjWiw0A?e=6qA4Lt)

#### [Live Zoom Link](https://unsw.zoom.us/j/91702499742)

### Evolutionary history of human immunodeficiency virus 1 (HIV-1) in New South Wales (Honours/Masters/PhD)

#### **Dr Francesca Di Giallonardo**

#### fdigiallonardo@kirby.unsw.edu.au

#### Kirby Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EQcPMpPXtYhIkn7iGAHTM00Be_wYh8mYQscxcULQC0R0vA)

### Gene therapy targeting virus infections (Honours/Masters/PhD)

#### **Dr Chantelle Ahlenstiel**

#### cahlenstiel@kirby.unsw.edu.au

#### Kirby Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ea_yoQhq5tVGjupLAdb7PU0BB35dZcLdSb1Fcr6bK1W4Vg)

[*Live Zoom Link*](https://unsw.zoom.us/j/95989728180?pwd=WlRCcHp1T2VvZW9qcXFVRVZnU2VtQT09) (Password: 391964)

### Human immune tuning: Understanding the genetic basis for health, cancer and Inflammatory disease (Honours/Masters/PhD)

#### **Associate Professor Shane Grey**

#### s.grey@garvan.org.au

#### Garvan Institute of Medical Research

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ESPRXmanGtpMnfw58kyTuZMByYOh6-5ddLuR22lEiIcRNQ)

[*Live Zoom Link*](https://garvan.zoom.us/j/95389198275) *Password: 892995*

### Identification of novel biomarkers in blood and exhaled breath of patients with respiratory diseases

#### A/Prof Cristan Herbert and Prof Paul Thomas

#### C.Herbert@unsw.edu.au / Paul.Thomas@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EbYL_4mSIVRAo2o9Vwo9bZMB1hC28EApj2tpavXBjWiw0A?e=6qA4Lt)

#### [Live Zoom Link](https://unsw.zoom.us/j/91702499742)

### Investigating T cell decision making using novel super-resolution imaging probes (Honours/PhD)

#### **Dr Jesse Goyette**

#### j.goyette@unsw.edu.au

#### School of Medical Sciences

[*Poster Link*](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ETTAVqoslLVMiSQkNTVJY88BL41xuQpAkSR5yT80gZSYbA)
[*Live Zoom link*](https://unsw.zoom.us/j/95572087495)

### Investigating T cell decision making using super-resolution microscopy (Honours/PhD)

#### **Dr Jesse Goyette and Professor Katharina Gaus**

#### j.goyette@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ETTAVqoslLVMiSQkNTVJY88BL41xuQpAkSR5yT80gZSYbA)

[*Live Zoom link*](https://unsw.zoom.us/j/95572087495)

### Molecular arms race between host and virus (Honours/PhD)

#### **Associate Professor Till Boecking**

#### till.boecking@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EYHTBjV0OQBBmnu7l33H2VYBR5qCyhzfELsjFcuC4uTrFw)

####  [Live Zoom Link](https://unsw.zoom.us/j/93496769865)

### Profiling immune cell behaviour via single cell sequencing and live-cell imaging (Honours/PhD)

#### **Dr Fabio Zanini**

#### fabio.zanini@unsw.edu.au

#### Adult Cancer Program

#### Video Link – (TBA)

### Studies of viral pathogenesis (Honours Masters PhD)

#### **Prof Bill Rawlinson**

#### w.rawlinson@unsw.edu.au

#### Virology Research Lab is based at Level 4, Campus Centre, Prince of Wales Hospital

### The role of the microbiome in the pathogenesis of endometriosis (Honours/Masters/PhD)

#### **Dr Fatima El-Assaad**

#### f.el-assaad@unsw.edu.au

#### St George & Sutherland Clinical School

#### [Video Link](https://unsw.sharepoint.com/%3Af%3A/s/MicrobiomeResearchCentre/EtqLUo2LG7NPqTj_4hzTwpoBZ9B7CwHIAzzKBkmfeqjWiw?e=gOyLRM)

#### [Live Zoom Link](https://unsw.zoom.us/j/91858952971)

### The role of Tissue Resident Memory T cells in control of HPV-driven anal cancer (Honours/Masters/PhD)

#### **Dr Sarah Sasson**

#### ssasson@kirby.unsw.edu.au

#### Kirby Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVNPd-1qBBlPmDvaTPA0izABhkXvW07z-phfU9LRqjC_wg)

### Respiratory Sepsis (Honours/Masters/PhD)

#### **Dr Sarah Sasson**

#### ssasson@kirby.unsw.edu.au

#### Kirby Institute

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVNPd-1qBBlPmDvaTPA0izABhkXvW07z-phfU9LRqjC_wg)

# Metabolism & Energy Projects

### Altering NAD biosynthesis to improve metabolism (Honours/PhD)

#### **Professor Nigel Turner**

#### n.turner@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee6rosJvsvNHjOgWzPAkV18B5EuK9JXt_lvVVO19GvQ0-Q)

### Complications of type-2 diabetes (Honours)

#### **Dr Ria Arnold**

#### ria.arnold@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ETlgDlNREYpFoQjMAGxgaIYB219PgEzqXqbdG6KL1QWIqg)

#### [Live Zoom Link](https://unsw.zoom.us/j/98467355136)

### Investigating effects of diet-induced obesity on metabolic health (Honours)

#### **Professor Margaret Morris**

#### m.morris@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee6sGu6knDNNp-ceG0-U6ckBSJVugXtJkn2xbN8cyWvcYA)

#### [Live Zoom Link](https://unsw.zoom.us/j/98467355136)

### Manipulating sphingolipid metabolism to prevent obesity and diabetes (Honours/PhD)

#### **Professor Nigel Turner**

#### n.turner@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ee6rosJvsvNHjOgWzPAkV18B5EuK9JXt_lvVVO19GvQ0-Q)

### Mitochondrial uncoupling drugs to maintain protein folding in old age (Honours/Masters/PhD)

#### **Dr Lindsay Wu**

#### lindsay.wu@unsw.edu.au

#### School of Medical Sciences

#### Poster Link – (TBA)

[Live Zoom Link](https://unsw.zoom.us/j/9271091681)

### My knees are creaky: have I got arthritis? An exercise and education intervention to support self-management of knee joint symptoms (Honours/Masters/PhD)

#### **Associate Professor Jeanette Thom**

#### j.thom@unsw.edu.au

#### School of Medical Sciences

#### Live Zoom Link – (TBA)

### Old age and metabolism in innate immunity and coronavirus infection (Honours/Masters/PhD)

#### **Dr Lindsay Wu**

#### lindsay.wu@unsw.edu.au

#### School of Medical Sciences

[Live Zoom Link](https://unsw.zoom.us/j/9271091681)

### Targeting Protein Kinase C epsilon for the Treatment of Type 2 Diabetes (Honours)

#### **Associate Professor Carsten Schmitz-Peiffer**

#### c.schmitz-peiffer@garvan.org.au

#### Garvan Institute of Medical Research

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EQqWa3QDyQVLh5BPlL_UPewBzPMpis1TWa_IBTaGnZj0BA)

#### [Video Link](https://unsw-my.sharepoint.com/%3Av%3A/g/personal/z3001235_ad_unsw_edu_au/EW_YrXDvkadKv9GmnyrAKXwBNc5x5ftqXEGsbQktRsX2YA?e=LIe6cb)

#### [Live Zoom Link](https://unsw.zoom.us/j/93073738714)

# Molecular & Drug Discovery Projects

### Molecular Pharmacology of G Protein-Coupled Receptors (Honours)

#### **Dr Angela Finch**

#### a.finch@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/ER-aKADWRqxAg9Jt0Qbd5qMB-vDgheU_-R0LqRk5e1Jkmw)

#### [Live Zoom Link](https://unsw.zoom.us/j/95929924612)

### Molecular pharmacology of G protein-coupled receptors (Honours/PhD)

#### **Dr Nicola Smith**

#### nicola.smith@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EXSWhG5SolhLs_oiLroJ2esBAu4TQWpafvvllQf2YbY6iw)

#### [Video Link](https://unsw.sharepoint.com/%3Av%3A/s/MPDD/EZaldsrEMCNAgYOUplgjnL0B1NFj-p2fM0z_biBxYEC1mg?e=6quWyv)

#### [Live Zoom Link](https://unsw.zoom.us/j/95929924612)

### Therapeutic targets for inflammatory bowel and bladder diseases (Honours/Masters/PhD)

#### **A/Prof Lu Liu**

#### lu.liu@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EXSMuHbS90VIk9AaIyaxu4YBb8SBBseuG0uopHIPngewPw?e=mzza9T)

# Neuroscience Projects

### Acquired Brain Injury and hearing loss drug and DNA therapeutics (Honours/Masters/PhD)

#### **Professor Gary Housley**

#### g.housley@unsw.edu.au

#### School of Medical Sciences

#### Poster Link – (TBA)

#### Live Zoom Link – (TBA)

### Examining the downstream targets of brain chemoreceptor neurons using an anterograde trans-synaptic viral tracer (HSV129) (Honours/Masters/PhD)

#### **Dr Natasha Kumar**

#### natasha.kumar@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EUuHDHZ0voBNicX5S74Lv0EBGrKklYEjeQdPC6t0q_015A?e=foZ5TF)

#### [Live Zoom Link](https://unsw.zoom.us/j/98569004096)

### Investigating the effects of diet on the brain and behaviour (Honours)

#### **Professor Margaret Morris**

#### m.morris@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVbdX65uzl9IpR2tTK-AZMABfa7byvEbG0DFT7iXS4gTiQ)

#### [Live Zoom Link](https://unsw.zoom.us/j/98467355136)

### Mild hypoxia (or drugs which mimic hypoxia) as a neuroprotective strategy for stroke or neonatal brain injury (Honours/Masters/PhD)

#### **Dr Nicole Jones**

#### n.jones@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EXCHFKjGhA1MsR8H15JiCj8BadtFVCbuNavyeaa5G3sYPQ)

####  [Live Zoom Link](https://unsw.zoom.us/j/96982455828)

### Modulation of septal brain circuits (Honours)

#### **Dr John Power**

#### john.power@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/Ed7R0gTr-LpCorv3XlhTXhwBu8149X2xEyZ2ne7T2uHZQA?e=DlSc1K)

#### [Video Link](https://web.microsoftstream.com/video/4fff4206-b18f-4db0-b442-ae6a59dc7929)

#### [Live Zoom Link](https://unsw.zoom.us/j/91349913895)

### Neural coding in human touch (Honours/Masters/PhD)

#### **Associate Professor Richard Vickery**

#### richard.vickery@unsw.edu.au

#### Neuroscience Research Australia

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EYYKOvlkEMxEohuYyMc3PdcB4whoYWmlvJFbBAK5W501xA)

#### [Video Link](https://unsw-my.sharepoint.com/%3Av%3A/g/personal/z3339423_ad_unsw_edu_au/EZQo1TxXWtZLoBYrYZDiybkBvad3WmF4aMcbkZPKcafA6w?e=5jNsAU)

#### [Live Zoom Link](https://unsw.zoom.us/j/4878316807)

### Neuroimmune cross-talk following nervous system injury: Implications for chronic pain (Honours/Masters/PhD)

#### **Associate Professor Gila Moalem-Taylor**

#### gila@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EVLTRJJR9lJJsP-W8pk-VdUBPrRBwRWSLprAY5JW_gqbIA)

#### [Live Zoom Link](https://unsw.zoom.us/j/99332782597)

### Structure and function of ligand gated ion channels (Honours/PhD)

#### **Dr Trevor Lewis**

#### t.lewis@unsw.edu.au

#### School of Medical Sciences

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EV9lpEjGaplFgtDCiNvU44EBeG9qeJjfk1C1vMVyKnHhMw)

### The role of the microbiome in neuroinflammation and dementia (Honours/Masters/PhD)

#### **Dr Fatima El-Assaad**

#### f.el-assaad@unsw.edu.au

#### St George & Sutherland Clinical School

#### [Video Link](https://unsw.sharepoint.com/%3Af%3A/s/MicrobiomeResearchCentre/EtqLUo2LG7NPqTj_4hzTwpoBZ9B7CwHIAzzKBkmfeqjWiw?e=gOyLRM)

#### [Live Zoom Link](https://unsw.zoom.us/j/91858952971)

### Understanding the somatosensory nervous system to manipulate sensorimotor function (Honours/Masters/PhD)

#### **Dr Jason Potas**

#### j.potas@unsw.edu.au

#### *School of Medical Sciences*

#### [Poster Link](https://unsw-my.sharepoint.com/%3Ab%3A/g/personal/z3001235_ad_unsw_edu_au/EUbrS5f0leZCkgBwE_sU5iABBNxG5cWGNP-5q9OQXQ6HOA?e=NyWkJz)

#### [Live Zoom Link](https://unsw.zoom.us/j/9755014112)