Front cover: Ms Penny McCarthy, Clinical Skills Coordinator in Central Clinical School's (CCS) medical education team (left), supervising a Bachelor of Medical Science (Honours) student, Ms Zelia Karmen Chiu during a 2017 clinical skills refresher course. The refresher courses are run throughout the year at CCS for each cohort of medical students doing the Honours research year.
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Bachelor of Medical Science (Honours) and postgraduate study through CCS

Monash University's Central Clinical School (CCS) undertakes translational research – developing insights from laboratory bench research for use in clinical therapies and treatments. Our departments and research affiliates have strong links with health care providers, ensuring that our research rapidly translates to clinical practice.

Undertaking the BMedSc(Honours) research year with us will give you a wide range of opportunities to continue your studies with the accelerated PhD program and develop your career path into many areas of medical and clinical research.

Projects are listed under the following headings

- Australian Centre for Blood Diseases (ACBD)
- Baker Institute
- Burnet Institute

Departments of:

- Diabetes
- Gastroenterology
- Immunology and Pathology
- Infectious Diseases
- Medicine
- Melbourne Sexual Health Centre (MSHC)
- Monash Alfred Psychiatry research centre (MAPrc)
- Neuroscience
- Peninsula Clinical School
- Surgery (including National Trauma Research Institute)

How to use this index booklet

This index booklet lists the Honours and PhD projects on offer for 2019. For further information about a particular research project, see the project description in the online database at:

www.monash.edu/medicine/research/supervisorconnect

For further information regarding individual research projects, students should approach the nominated researcher associated with that project. This booklet is meant as a guide only, as project ideas will be refined between student and supervisor.

Making your application

Applications are completed centrally through Monash University. Prospective applicants should complete an application form, which can be downloaded or obtained from the Faculty Office. Numbers are capped at 65. Applications close 7 August 2018.

Links for further information and entry requirements:

- Faculty BMedSc(Hons)
- BMedSc(Hons) at CCS
- AMREP Scholarships

For information regarding BMedSc(Hons) and postgraduate study at CCS

Professors Karin Jandeleit-Dahm and Merlin Thomas

CCS BMedSc(Hons) coordinators:

E: karin.jandeleit-dahm@monash.edu / merlin.thomas@monash.edu
T: 03 9903 0008 / 9903 0099

For general information regarding Honours and postgraduate study at CCS

CCS Student Services Officer:

E: ccs.honours@monash.edu
T: 03 9903 0784

Further links

- www.study.monash/courses/find-a-course/2018/medical-science-m3701
- www.monash.edu/medicine/som/bmedsc-hons/how-to-apply
- www.monash.edu/medicine/ccs/education/prospective-students/bmedsc-hons
- www.monash.edu/study/fees-scholarships/scholarships/find-a-scholarship/amrep-honours-scholarship-5596
Medical education/PhD pathways at the Central Clinical School

**Notes**

1. MBBS – qualify as a registered medical practitioner
2. MBBS plus BMedSc(Hons) – do a one year research project in the area of your interest, then return to complete your MBBS
3. BMedSc(Hons) + PhD then return to your MBBS. If you enrol in the PhD back-to-back, the BMedSc(Honours) is credited to your PhD and will not appear as a separate qualification.

See more:
- https://www.monash.edu/medicine/som/bmedsc-hons/mbbs-phd-pathway
- https://www.monash.edu/medicine/som/bmedsc-hons
The Australian Centre for Blood Diseases (ACBD) is a national and international blood diseases centre with recognised research, treatment, and educational programs for blood diseases. ACBD is affiliated with Monash University, The Alfred hospital, Eastern Health and Southern Health, and is organised into three integrated divisions:

- Clinical and Diagnostic Haematology/Oncology
- Clinical and Basic Research Programs
- Teaching and Education

The ACBD’s research falls into two main areas, Non-Malignant Haematology, and Malignant Haematology & Stem Cell Transplantation.

See more: [www.monash.edu/medicine/ccs/blood-disease](http://www.monash.edu/medicine/ccs/blood-disease)

Projects Available:

- Reprograming differentiated adult cells into hematopoietic stem cells
  Supervisor(s): Professor Andrew Perkins and Dr Kevin Gillinder
  Email: Andrew.Perkins@monash.edu

- Genomics and Pre-clinical Models of Erythroleukaemia
  Supervisor(s): Professor Andrew Perkins and Dr Catherine Carmichael
  Email: Andrew.Perkins@monash.edu

- Regulating Lipid Metabolism via the IDOL Pathway
  Supervisor(s): Dr Anna Calkin
  Email: Anna.Calkin@monash.edu

- Glucose responsive insulin nanoparticle for the treatment of diabetes
  Supervisor(s): Assoc Professor Christoph Hagemeyer and Dr Ting-Yi Wang
  Email: Christoph.Hagemeyer@monash.edu

- Gene editing of a master regulator of transcription to cure sickle cell disease
  Supervisor(s): Professor Andrew Perkins and Dr Kevin Gillinder
  Email: Andrew.Perkins@monash.edu

- Genomics and Pre-clinical Models of Erythroleukaemia
  Supervisor(s): Professor Andrew Perkins and Dr Catherine Carmichael
  Email: Andrew.Perkins@monash.edu

- Targeting (homing) stem cells for the treatment of atherosclerosis, myocardial infarction and stroke
  Supervisor(s): Assoc Professor Christoph Hagemeyer and Dr Ting-Yi Wang
  Email: Christoph.Hagemeyer@monash.edu

- Investigating the role of the methyltransferase Prmt5 in hematopoietic cells
  Supervisor(s): Assoc Professor David Curtis and Dr Cedric Tremblay
  Email: David.Curtis@monash.edu

- Stimulating cell cycle to sensitize leukemic cells to chemotherapy
  Supervisor(s): Assoc Professor David Curtis and Dr Cedric Tremblay
  Email: David.Curtis@monash.edu
Impact of Prmt5-mediated inhibition of splice factors on Myelodysplastic syndrome
Supervisor(s): Assoc Professor David Curtis and Dr Christina Tebartz
Email: David.Curtis@monash.edu

Investigating a novel target of the epigenetic regulator Prmt5 in Acute Myeloid Leukaemia
Supervisor(s): Assoc Professor David Curtis and Dr Emma Toulmin
Email: David.Curtis@monash.edu

Inhibition of the platelet thrombin receptor PAR4 to prevent thrombosis in coronary artery disease
Supervisor(s): Assoc Professor Justin Hamilton
Email: Justin.Hamilton@monash.edu

Using new drugs to target a novel mechanism for improved anti-thrombotic therapy
Supervisor(s): Assoc Professor Justin Hamilton
Email: Justin.Hamilton@monash.edu

The role of the homeobox transcription factor Hhex in Acute Myeloid Leukaemia
Supervisor(s): Assoc Professor Matthew McCormack and Dr Benjamin Shields
Email: Matthew.McCormack@monash.edu

Identification of self-renewal networks in T-cell leukemia
Supervisor(s): Assoc Professor Matthew McCormack and Dr Benjamin Shields
Email: Matthew.McCormack@monash.edu

Platelet Analysis
Supervisor(s): Assoc Professor Robert Andrews and
Email: Rob.Andrews@monash.edu

The effect of anti-fibrinolytic agents on the immune and inflammatory response following major trauma
Supervisor(s): Professor Robert Medcalf
Email: Robert.Medcalf@monash.edu

t-PA effects on the blood-brain barrier in a mouse model of ischaemic stroke; evaluation of new drug delivery system
Supervisor(s): Professor Robert Medcalf
Email: Robert.Medcalf@monash.edu

Releasing the differentiation block in acute myeloid leukaemia
Supervisor(s): Assoc Professor Ross Dickins and Assoc Prof Matthew McCormack
Email: Ross.Dickins@monash.edu
Baker Institute

The Baker Institute is an independent medical research facility. The Institute’s work extends from the laboratory to wide-scale community studies with a focus on diagnosis, prevention and treatment of diabetes and cardiovascular disease. The Institute’s main laboratory facilities are located on the Alfred Medical Research and Education Precinct.

See more: [https://www.baker.edu.au/](https://www.baker.edu.au/)

Projects Available:

Inhibition of the NLRP3-inflammasome as a novel strategy to limit diabetic cardiomyopathy.
Supervisor(s): Dr Judy De Haan-Klein and Prof Geoff Head, Dr Arpeeta Sharma
Email: Judy.De.Haan-Klein@monash.edu

Activating the major regulator of oxidative stress, Nrf2, with novel small molecules to limit diabetic vascular disease.
Supervisor(s): Dr Judy De Haan-Klein and Dr Arpeeta Sharma
Email: Judy.De.Haan-Klein@monash.edu

Improving endothelial dysfunction through the use of Nrf2 activators as a novel treatment strategy to lessen diabetes-associated hypertension.
Supervisor(s): Dr Judy De Haan-Klein and Prof Rebecca Ritchie
Email: Judy.De.Haan-Klein@monash.edu

Antioxidant and anti-inflammatory effect of pomegranate polyphenols on diabetic cardiovascular disease
Supervisor(s): Dr Judy De Haan-Klein and Dr Arpeeta Sharma
Email: Judy.De.Haan-Klein@monash.edu

Targeting novel regulators of exercise induced heart growth to treat heart failure and complications including atrial fibrillation
Supervisor(s): Adj Assoc Prof Julie McMullen and Dr Bianca Bernardo, Dr Kate Weeks, Dr Jenny Ooi
Email: Julie.McMullen@monash.edu

Investigating the role of protein phosphatases in the heart
Supervisor(s): Dr Kate Weeks and Assoc Prof Julie McMullen
Email: Kate.Weeks@monash.edu

The effect of statins on lipid metabolism and the risk of cardiovascular disease
Supervisor(s): Professor Peter Meikle and Dr Anna Calkin
Email: Peter.Meikle@monash.edu

The role of branched chain amino acids and fatty acids in type 2 diabetes
Supervisor(s): Professor Peter Meikle and Dr Graeme Lancaster
Email: Peter.Meikle@monash.edu
Burnet Institute

The Burnet Institute combines medical research in the laboratory and at a population level with public health action and advocacy to address major health issues of disadvantaged populations in Australia and communities in the developing world. Three major health themes underpin the Burnet’s work: Infectious diseases, maternal and child health, and young people’s health.

See more: [www.burnet.edu.au](http://www.burnet.edu.au)

Projects Available:

- **Developing vaccines against malaria**
  Supervisor(s): Professor James Beeson and Dr Herbert Opi
  Email: James.Beeson@monash.edu

- **Discovering the mechanisms and targets of immunity against malaria**
  Supervisor: Professor James Beeson and Dr Gaoqian Feng
  Email: James.Beeson@monash.edu

- **Understanding malaria transmission and immunity to inform malaria elimination**
  Supervisor(s): Professor James Beeson and Dr JoAnne Chan(External), Assoc Prof Freya Fowkes
  Email: James.Beeson@monash.edu

- **Healthy Mothers, Healthy Babies: maternal nutrition and inflammation and their impact on pregnancy outcomes**
  Supervisor(s): Professor James Beeson and Assoc Prof Freya Fowkes, Dr Philippe Boeuf(External)
  Email: James.Beeson@monash.edu

- **Developing new diagnostic tests for malaria and other infectious diseases**
  Supervisor(s): Dr Jack Richards and Assoc Prof David Anderson
  Email: Jack.Richards@monash.edu

- **Advancing vaccine development for infectious diseases by identifying targets and mechanisms of protective immunity**
  Supervisor(s): Dr Jack Richards, Dr Ricardo Ataide
  Email: Jack.Richards@monash.edu

- **Novel tools and approaches for malaria elimination**
  Supervisor(s): Dr Jack Richards and Dr Ricardo Ataide
  Email: Jack.Richards@monash.edu
Department of Diabetes

The Monash University Department of Diabetes has a broad range of translational research investigating both causes and clinical therapies for diabetes and its complications.

See more: www.monash.edu/medicine/ccs/diabetes

Projects Available:

Do renal nerves contribute to the development of nephropathy in diabetes and hypertension?
Supervisor(s): Dr Anna Watson
Email: Anna.Watson@monash.edu

The role of Nox5 in diabetes associated complications
Supervisor(s): Dr Jay Jha and Prof Karin Jandeleit-Dahm
Email: Jay.Jha@monash.edu

The role of Nox5 in diabetic kidney disease
Supervisor(s): Dr Jay Jha and Prof Karin Jandeleit-Dahm
Email: Jay.Jha@monash.edu

Immunotherapy as a treatment for blindness in diabetes
Supervisor(s): Professor Jennifer Wilkinson-Berka and Dr Devy Deliayanti
Email: Jennifer.Wilkinson-Berka@monash.edu

Immunotherapy as a treatment for vision loss in premature children
Supervisor(s): Professor Jennifer Wilkinson-Berka and Dr Devy Deliayanti
Email: Jennifer.Wilkinson-Berka@monash.edu

Exploring the molecular consequences of processed food intake
Supervisor(s): Assoc Professor Melinda Coughlan
Email: Melinda.Coughlan@monash.edu

Targeting the C5a-C5aR1 axis in diabetic nephropathy
Supervisor(s): Assoc Professor Melinda Coughlan and Dr Sih Min Tan
Email: Melinda.Coughlan@monash.edu

Investigating pathways of mitochondrial quality control in diabetic kidney disease
Supervisor(s): Assoc Professor Melinda Coughlan
Email: Melinda.Coughlan@monash.edu

Augmenting the expression and activity of glyoxalase-1 as a means to slow ageing
Supervisor(s): Professor Merlin Thomas and Dr Raelene Pickering
Email: Merlin.Thomas@monash.edu

Cell penetrating peptides as a means to deliver intracrine hormones
Supervisor(s): Professor Merlin Thomas and Dr Carlos Rosado
Email: Merlin.Thomas@monash.edu

Modulating ACE2 shedding to prevent diabetic complications
Supervisor(s): Professor Merlin Thomas and Dr Christos Tikellis
Email: Merlin.Thomas@monash.edu

The legacy of memory
Supervisor(s): Professor Sam El-Osta and Prof Mark Cooper, Dr Jun Okabe
Email: Sam.El-Osta@monash.edu

Set7 methyltransferase as a target to reduce the burden of diabetic complications
Supervisor(s): Professor Sam El-Osta and Dr Jun Okabe
Email: Sam.El-Osta@monash.edu

Clinical epigenetics and molecular based therapies
Supervisor(s): Professor Sam El-Osta and Dr Harikrishnan K.N., Dr Jun Okabe
Email: Sam.El-Osta@monash.edu
Role of non-coding RNAs in vascular disease  
Supervisor(s): Professor Sam El-Osta and Dr Jun Okabe  
Email: Sam.El-Osta@monash.edu

Characterization of the prototype inhibitor of CDA1, CHA-061, in diabetic nephropathy in db/db mice  
Supervisor(s): Dr Zhong-Lin Chai and Prof Mark Cooper  
Email: Zhonglin.Chai@monash.edu

Characterization of the prototype inhibitor of CDA1, CHA-061, in diabetic nephropathy in Akita mice  
Supervisor(s): Dr Zhong-Lin Chai and Prof Mark Cooper  
Email: Zhonglin.Chai@monash.edu

To improve the potency of CHA-061, the prototype peptide inhibitor of CDA1  
Supervisor(s): Dr Zhong-Lin Chai and Dr David Chalmers  
Email: Zhonglin.Chai@monash.edu

Epigenetics of diabetes, mapping the human methylome and building the epigenomic atlas of Type 1 Diabetes  
Supervisor(s): Professor Sam El-Osta and Dr Ishant Khurana, Prof Mark Cooper  
Email: Sam.El-Osta@monash.edu

Novel anti-inflammatory agents targeting atherosclerosis development in diabetes  
Supervisor: Dr Phillip Kantharidis  
Email: Phillip.Kantharidis@monash.edu

RNA biomarkers predictive of the development of diabetic nephropathy  
Supervisor: Dr Phillip Kantharidis  
Email: Phillip.Kantharidis@monash.edu

The protective effects of Lipoxin A4 against diabetic nephropathy  
Supervisor: Dr Phillip Kantharidis  
Email: Phillip.Kantharidis@monash.edu

Molecular mechanisms of action of dietary antioxidants and chromatin modifying compound  
Supervisor: Dr Tom Karagiannis  
Email: tom.karagiannis@monash.edu

Topical wound healing formulations in the context of diabetic complications  
Supervisor: Dr Tom Karagiannis  
Email: tom.karagiannis@monash.edu

To improve the potency of CHA-061, the prototype peptide inhibitor of CDA1  
Supervisor(s): Dr Zhong-Lin Chai and Dr David Chalmers  
Email: Zhonglin.Chai@monash.edu

Epigenetics of diabetes, mapping the human methylome and building the epigenomic atlas of Type 1 Diabetes  
Supervisor(s): Professor Sam El-Osta and Dr Ishant Khurana, Prof Mark Cooper  
Email: Sam.El-Osta@monash.edu

Novel anti-inflammatory agents targeting atherosclerosis development in diabetes  
Supervisor: Dr Phillip Kantharidis  
Email: Phillip.Kantharidis@monash.edu
Department of Gastroenterology

The Department of Gastroenterology is internationally recognised for its high-impact research and clinical expertise across gastroenterology and intestinal health, including the invention of the Low FODMAP Diet.

See more: www.monash.edu/medicine/ccs/gastroenterology

Projects Available:

Comparing the role of a specific carbohydrate vs low FODMAP dietary approach in patients with inflammatory bowel disease
Supervisor(s): Dr Chu (CK) Yao and Assoc Professor Jane Muir
Email: Chu.Yao@monash.edu

Piecing the puzzle together: compositional assessment of food components potentially harmful for patients with inflammatory bowel disease
Supervisor(s): Dr Emma Halmos and Dr Chu (CK) Yao
Email: Emma.Halmos@monash.edu

Investigating the effects of acetylated high amylose maize starch (HAMSA) on colonic fermentation-dependent parameters, bowel habit and systemic immune markers in healthy humans.
Supervisor(s): Assoc Professor Jane Muir and Dr Jane Varney
Email: Jane.Muir@monash.edu

Reducing FODMAPs to improve gastrointestinal symptoms in the everyday athlete.
Supervisor(s): Dr Marina Iacovou
Email: Marina.Iacovou@monash.edu
Department of Immunology and Pathology

The Monash University Department of Immunology and Pathology is internationally renowned for its combined expertise in research, teaching and service delivery in immunology and immunopathology.

Extensive research programs in basic and translational immunology include highly successful collaborations with The Alfred hospital and other AMREP partners. The department’s research activities target diseases including allergy, asthma, autoimmunity, inflammation, diabetes, lupus, organ fibrosis, cancer and malaria. The department also focuses on engineering novel treatments such as nanoparticle-based vaccines in cancer and infection.

See more:
http://www.monash.edu/medicine/ccs/immunology

Projects Available:

Clinical implications of trans-kingdom microbial interactions in the transplanted lung
Supervisor(s): Professor Benjamin Marsland
Email: Benjamin.Marsland@monash.edu

Implications of antibody repertoires for microbiome composition and susceptibility to asthma
Supervisor(s): Professor Benjamin Marsland and Dr Tomasz Wypych
Email: Benjamin.Marsland@monash.edu

How Does the Absence of One Enzyme Block an Entire Immune Response?
Supervisor(s): Professor David Tarlinton
Email: David.Tarlinton@monash.edu

Molecular basis of CD4+ T cell differentiation and function during tumour development
Supervisor(s): Professor David Tarlinton and Dr Zhoujie Ding, Dr Isaak Quast
Email: David.Tarlinton@monash.edu

What are the mechanisms allowing protective immunity while preventing autoimmunity?
Supervisor(s): Professor David Tarlinton and Dr Isaak Quast
Email: David.Tarlinton@monash.edu

The use of diet as a mechanism to subvert the progression of chronic lung disease
Supervisor(s): Assoc Professor Margaret Hibbs
Email: Margaret.Hibbs@monash.edu

Defining mechanisms underlying pathogenic inflammation in lupus
Supervisor(s): Assoc Professor Margaret Hibbs
Email: Margaret.Hibbs@monash.edu

The role of the Hck tyrosine kinase in B cell development and function
Supervisor(s): Assoc Professor Menno Van Zelm and Dr Emily Edwards
Email: Menno.VanZelm@monash.edu

B-cell T-cell interactions driving granulomatous inflammation in Crohn’s disease
Supervisor(s): Assoc Professor Menno Van Zelm
Email: Menno.VanZelm@monash.edu

Immune specificity and memory in asthma and allergic disease
Supervisor(s): Assoc Professor Menno Van Zelm and Dr Craig McKenzie
Email: Menno.VanZelm@monash.edu

Targeting the blood feeding pathway of the hookworm parasites
Supervisor(s): Professor Nicola Harris and Dr Tiffany Bouchery
Email: Nicola.Harris@monash.edu

Function and regulation of alternatively activated Macrophages
Supervisor(s): Professor Nicola Harris and Dr Tiffany Bouchery
Email: Nicola.Harris@monash.edu

Tetraspanins are key regulators of inflammation
Supervisor: Assoc Professor Mark Wright
Email: Mark.Wright@monash.edu
Department of Infectious Diseases

The Department of Infectious Diseases (DID), Central Clinical School and Alfred Health, integrates a large clinical service with active research programs in the fields of HIV, viral hepatitis, infections in the immunosuppressed (such as those with malignancy, in intensive care and post-splenectomy), influenza, drug resistant organisms, antibiotic use and infection prevention and hospital epidemiology. It offers undergraduate and postgraduate study programs.

See more: www.monash.edu/medicine/ccs/infectious-diseases

Projects Available:

Assessing the number of people in Victoria in HIV care and methods to improve retention in HIV care
Supervisor(s): Dr James McMahon and Prof Jennifer Hoy
Email: James.McMahon@monash.edu

Hepatitis B screening and antiviral prophylaxis during immunosuppression: understanding current clinical practice and acceptability of clinical guidelines
Supervisor(s): Dr Joseph Doyle, Dr Jess Howell
Email: Joseph.Doyle@monash.edu

Clinical utility and cost-effectiveness of screening for latent tuberculosis among health care workers in Australia
Supervisor: Dr Joseph Doyle and Prof Allen Cheng
Email: Joseph.Doyle@monash.edu

Predicting and reducing hepatitis C reinfection following treatment
Supervisor(s): Dr Joseph Doyle, Prof Margaret Hellard
Email: Joseph.Doyle@monash.edu

Eliminating hepatitis C infection in Victoria through treatment scale up: helping prescribers initiate treatment
Supervisor(s): Dr Joseph Doyle and Dr Alisa Pedrana, Prof Margaret Hellard
Email: Joseph.Doyle@monash.edu

Barriers to hepatocellular carcinoma screening uptake in Victoria
Supervisor(s): Dr Joseph Doyle, Dr Jessica Howell
Email: Joseph.Doyle@monash.edu

Elimination of hepatitis C through rapid testing and treatment
Supervisor(s): Dr Joseph Doyle and Prof Margaret Hellard, Dr Alisa Pedrana
Email: Joseph.Doyle@monash.edu

Innovative use of AI for reporting fungal diseases in clinical trials for blood cancer
Supervisor(s): Dr Michelle Ananda-Rajah and Dr Trisha Peel
Email: Michelle.Ananda-Rajah@monash.edu

Does antiretroviral therapy (and the class of drug) affect semen quality in HIV positive males?
Supervisor(s): Assoc Professor Michelle Giles
Email: Michelle.Giles@monash.edu

How does ageing impact on quality of life measures, mental health, relationships, sexual activity and alcohol and drug use among HIV positive and HIV negative men?
Supervisor(s): Assoc Professor Michelle Giles and Dr Kathy Petoumenos (External)
Email: Michelle.Giles@monash.edu

A mobile, outreach vaccination program to increase influenza vaccination coverage among vulnerable populations
Supervisor(s): Assoc Professor Michelle Giles
Email: Michelle.Giles@monash.edu

Tracking functional immune reconstitution following allogeneic haematopoietic stem cell transplantation to guide optimal timing for antimicrobial prophylaxis and post-transplant vaccination
Supervisor(s): Dr Orla Morrissey, Assoc Prof Rose Ffrench
Email: Orla.Morrissey@monash.edu

Immune Function in Patients Undergoing Treatment for Myeloma
Supervisor(s): Dr Orla Morrissey
Email: Orla.Morrissey@monash.edu
The Central Clinical School’s Department of Medicine is co-located with a number of world class research institutions and Alfred Health. It is a premier centre for clinical and biomedical research and education, offering undergraduate and postgraduate study programs.

Research encompasses programs in Dermatology, Developmental biology, Hormones and Vasculature, Molecular Endocrinology, Neuroscience, Oncology, Pathology and Skin Cancer. Many of the research programs are integrated with clinical services at Alfred Health, facilitating the translation of basic research findings to medical practice, therapeutics and improved health care.

See more:
www.monash.edu/medicine/ccs/medicine-alfred

Projects Available:

**Identifying Grainyhead-like 3 target genes in headlight cells**
Supervisor(s): Dr Marina Carpinelli and Prof Stephen Jane
Email: Marina.Carpinelli@monash.edu

**Identifying proteins that bind to Grainyhead-like 3 in skin**
Supervisor(s): Dr Marina Carpinelli and Prof Stephen Jane
Email: Marina.Carpinelli@monash.edu

**Novel Regulation of Lipid Metabolism**
Supervisor(s): Dr Anna Calkin and Dr Brian Drew
Email: anna.calkin@monash.edu

**Regulating Lipid Metabolism via the IDOL Pathway**
Supervisor(s): Dr Anna Calkin and Dr Brian Drew
Email: anna.calkin@monash.edu
The Academic Unit, Medicine, Peninsula Health, is comprised of researchers with different and complementary skill sets whose goal is to conduct high quality translational research into chronic conditions affecting the ageing population. Expertise spans from clinical medicine, bioinformatics and imaging, health services research including data linkage, and biostatistics. Major initiatives include the study of poor metabolic health (e.g. obesity, type 2 diabetes) and dementia, cerebrovascular disease and dementia, frailty and delirium in hospitalized older people, novel technologies for designing health service delivery for stroke, and community systems of care for people with dementia. Members of the group have several local, national and international collaborations. Their work is supported by several sources of funding, including NHMRC.

Projects Available:

Correlates of physical activity and brain structure in mid life in the UK Biobank
Supervisor(s): Prof V Srikanth, Dr Chris Moran
Email: velandai.srikanth@monash.edu

Differences in physical activity predict differences in cognition between twin pairs discordant for diabetes
Supervisor(s): Prof V Srikanth, Dr Chris Moran
Email: velandai.srikanth@monash.edu

Google based geospatial mapping of primary care uptake in patients with stroke
Supervisor(s): Dr. Nadine Andrew, A/Prof Richard Beare, Prof V Srikanth
Email: Nadine.Andrew@monash.edu

Differences in physical activity predict differences in cognition between twin pairs discordant for diabetes
Supervisor(s): Prof V Srikanth, Dr Chris Moran
Email: velandai.srikanth@monash.edu

Google-based geospatial mapping of hospital readmissions - towards identifying "hot spots"
Supervisor(s): Dr. Nadine Andrew, A/Prof Richard Beare, Prof V Srikanth
Email: Nadine.Andrew@monash.edu

Dupuytrens disease patient-reported outcomes and a new treatment paradigm - multicentre study
Supervisor(s): A/Prof David Hunter-Smith, Prof Warren Rozen, Prof V Srikanth
Email: David.Hunter-Smith@monash.edu

Exploring artificial intelligence in vascular imaging for free-flap reconstructive surgery
Supervisor(s): A/Prof David Hunter-Smith, Prof Warren Rozen, Prof V Srikanth
Email: David.Hunter-Smith@monash.edu

Virtual and augmented reality in surgical training and patient education
Supervisor(s): A/Prof David Hunter-Smith, Prof Warren Rozen, Prof V Srikanth
Email: David.Hunter-Smith@monash.edu

Non-invasive volume clamp measurement of cardiac output - reliability studies
Dr Ashwin Subramaniam, Dr. Ravi Tiruvoipati, Prof V Srikanth
Email: Ashwin.Subramaniam@monash.edu

ECG changes with coronary contrast injection as a marker of coronary microvascular dysfunction
Supervisor: Professor Jamie Layland, Prof V Srikanth
Email: Jamie.Layland@monash.edu

See more: www.monash.edu/medicine/ccs/medicine-alfred/research/srikanth-group
Department of Neuroscience

Professor Terence O’Brien is Head of the Department of Neuroscience and Van Cleef Roet Chair as of October 2017. The specialist areas of the department are investigation of neurological, neuroscience, neurobehavioural, pharmacological and imaging with respect to cognition and various brain disorders including epilepsy, neuro-inflammation, neurodegenerative diseases, brain tumours, stroke and traumatic brain injury.

See more: www.monash.edu/medicine/ccs/neuroscience

Projects Available:

Neuroimaging and neuropathological biomarkers of social dysfunction after paediatric brain injury
Supervisor(s): Dr Bridgette Semple and Dr Akram Zamani
Email: Bridgette.Semple@monash.edu

Social rehabilitation to rescue social deficits after paediatric brain injury
Supervisor(s): Dr Bridgette Semple and Dr Akram Zamani
Email: Bridgette.Semple@monash.edu

Does peripheral inflammation contribute to epileptogenesis after traumatic brain injury?
Supervisor(s): Dr Bridgette Semple and Assoc Prof Sandy Shultz
Email: Bridgette.Semple@monash.edu

Seizure susceptibility and inflammation as risk factors for post-traumatic epilepsy
Supervisor(s): Dr Bridgette Semple and Dr Pablo Casillas-Espinosa
Email: Bridgette.Semple@monash.edu

Myelin repair after traumatic brain injury in early life
Supervisor(s): Dr Bridgette Semple and Dr Jessica Fletcher (External)
Email: Bridgette.Semple@monash.edu

How do concussive head impacts affect the skull?
Supervisor(s): Dr Bridgette Semple and Assoc Prof Sandy Shultz, Dr Stuart MacDonald (External)
Email: Bridgette.Semple@monash.edu

Understanding personality profiles of the epilepsy syndromes
Supervisor(s): Dr Charles Malpas and Dr Genevieve Rayner
Email: Charles.Malpas@monash.edu

Modelling the dynamics of fundamental cognitive functions during video electroencephalography monitoring
Supervisor(s): Dr Charles Malpas and Dr Genevieve Rayner
Email: Charles.Malpas@monash.edu

Modelling the predictors of subjective cognitive complaint in epilepsy
Supervisor(s): Dr Charles Malpas and Dr Genevieve Rayner
Email: Charles.Malpas@monash.edu

Early Identification of Psychological Comorbidities in People with Epilepsy to Improve Outcomes
Supervisor(s): Dr Charles Malpas and Dr Genevieve Rayner
Email: Charles.Malpas@monash.edu

Statistical Analysis of Individual Progression Risk in people with Multiple Sclerosis (MS)
Supervisor(s): Professor Helmut Butzkueven and Dr Jim Stankovich
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Plasma biomarkers for epileptogenesis and epileptic seizures
Supervisor(s): Mr Idrish Ali and Prof Terence O’Brien, Dr Pablo Casillas
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PET imaging of neuroinflammation as biomarker of post-traumatic epilepsy
Supervisor(s): Mr Idrish Ali and Dr Lucy Vivash, Prof Terence O’Brien
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Cardiac dysfunction in epilepsy: A translational study investigating molecular and epigenetic mechanisms
Supervisor(s): Dr Kim Powell and Prof Terry O’Brien
Email: Kim.Powell@monash.edu

www.monash.edu/medicine/ccs/education/prospective-students/bmedsc-honours
Does epilepsy cause a secondary cardiac channelopathy?
Supervisor(s): Dr Kim Powell, Prof Terry O'Brien
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Stargazin and AMPA receptor expression at cortical synapses in epileptic rats
Supervisor(s): Dr Kim Powell, Dr Pablo Casillas
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Is telomere length associated with cardiac dysfunction in chronic epilepsy
Supervisor(s): Dr Kim Powell and Prof Terry O'Brien, Dr Anne McIntosh
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The effect of anti-epileptic drugs on cerebellar volume and metabolism in patients with epilepsy
Supervisor(s): Dr Lucy Vivash and Dr Ben Sinclair, Prof Terry O'Brien
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Sodium selenate as a treatment for behavioural variant fronto-temporal dementia
Supervisor(s): Dr Lucy Vivash and Dr Charles Malpas, Prof Terry O'Brien
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Imaging of neurodegenerative diseases
Supervisor(s): Dr Lucy Vivash
Email: Lucy.Vivash@monash.edu

The Epidemiology of burn injury from seizure activity at a state-wide burns service, 2000 to 2017
Supervisor(s): Dr Marco Fedi and Prof Patrick Kwan, Prof Terry O'Brien
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Metabolic profile of the first seizure and its predictive value of seizure recurrence
Supervisor(s): Dr Marco Fedi and Prof Terry O'Brien, Prof Patrick Kwan
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Microglial activation and neurological disease.
Supervisor(s): Dr Mastura Monif and Prof Helmut Butzkueven, Prof Terry O'Brien
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Monocytes in Multiple Sclerosis
Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien, Prof Helmut Butzkueven
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The contribution of P2X7R and microglial activation in the neurological deficits of temporal lobe epilepsy.
Supervisors: Dr Mastura Monif, Prof Terry O'Brien
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Activated microglia in human brain tumours a translational study.
Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien, Prof David Williams (External)
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The role of microparticles in traumatic brain injury.
Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien
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The cellular and molecular mechanisms of Multiple Sclerosis related fatigue
Supervisor(s): Dr Mastura Monif
Email: Mastura.Monif@monash.edu

Does stress contribute to epilepsy?
Supervisor(s): Assoc Professor Nigel Jones
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Neural oscillations and cognition
Supervisor(s): Assoc Professor Nigel Jones
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NMDA receptors, neural oscillations and cognition
Supervisor(s): Assoc Professor Nigel Jones
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Stress and seizures
Supervisor(s): Assoc Professor Nigel Jones
Email: Nigel.Jones@monash.edu

Does sugar really impair cognition?
Supervisor(s): Assoc Professor Nigel Jones
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Blurred vision
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
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Dynamic visual acuity in Parkinson’s disease
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
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Dynamic visual acuity and pupillometry
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
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Dynamic stereoscopy in multiple sclerosis
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
Email: Owen.White@monash.edu

Visual snow
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
Email: Owen.White@monash.edu
Chronic traumatic encephalopathy  
Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding  
Email: Owen.White@monash.edu

Neuropharmacological strategies for disease modification and prevention of the development of epilepsy  
Supervisor(s): Mr Pablo Casillas-Espinosa and Assoc Prof Sandy Shultz, Prof Terence O'Brien, Assoc Professor Nigel Jones  
Email: Pablo.Casillas-Espinosa@monash.edu

Evaluating sodium selenate as a new therapy to prevent post-stroke epilepsy and associated neurological impairments.  
Supervisor(s): Mr Pablo Casillas-Espinosa and Assoc Prof Sandy Shultz, Prof Terence O'Brien  
Email: Pablo.Casillas-Espinosa@monash.edu

Development and characterisation of an animal model of neurological heterotopic ossification  
Supervisor(s): Dr Rhys Brady and Assoc Prof Sandy Shultz  
Email: Rhys.Brady@monash.edu

The effect of epilepsy on bone  
Supervisor(s): Dr Rhys Brady and Assoc Prof Sandy Shultz, Dr Pablo Casillas-Espinosa  
Email: Rhys.Brady@monash.edu

Investigating whether mild traumatic brain injuries cause neurodegenerative disease  
Supervisor: Assoc Professor Sandy Shultz  
Email: Sandy.Shultz@monash.edu

How does aging affect traumatic brain injury pathology and outcomes?  
Supervisor: Assoc Professor Sandy Shultz  
Email: Sandy.Shultz@monash.edu

Can a common parasite alter brain injury outcomes?  
Supervisor: Assoc Professor Sandy Shultz  
Email: Sandy.Shultz@monash.edu

Biomarkers for sports concussion  
Supervisor: Assoc Professor Sandy Shultz  
Email: Sandy.Shultz@monash.edu

A Pharmacogenomics study of the teratogenicity of valproate based on the prospective Australian Register for Anti-epileptic Drugs in Pregnancy  
Supervisor(s): Professor Terence O'Brien and Prof Frank Vajda(External), Dr Alison Anderson, Dr Charles Malpas, Dr Piero Perucca  
Email: Terence.O'Brien@monash.edu

Identifying Predictors of Death in Patients with Epileptic and Psychogenic Seizures  
Supervisor(s): Professor Terence O'Brien and Prof Patrick Kwan, Dr Anne Macintosh, Dr Charles Malpas  
Email: Terence.O'Brien@monash.edu

Whole genomic sequencing analysis of genetic and acquired rat strains  
Supervisor(s): Professor Terence O'Brien and Dr Bridgette Semple, Mr Pablo Casillas-Espinosa  
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Sodium Selenate as a Disease Modifying Treatment for Probable Behavioural Variant Frontotemporal Dementia  
Supervisor(s): Professor Terence O'Brien and Dr Lucy Viviash, Dr Charles Malpas, Prof Dennis Velakoulis(External)  
Email: Terence.O'Brien@monash.edu

Pharmacogenomic studies in Multiple Sclerosis  
Supervisor(s): Dr Vilija Jokubaitis and Prof Helmut Butzkueven, Dr Jim Stankovich  
Email: Vilija.Jokubaitis@monash.edu

Assessment of a Survey to capture environmental factors impacting Multiple Sclerosis  
Supervisor(s): Dr Vilija Jokubaitis and Prof Helmut Butzkueven  
Email: Vilija.Jokubaitis@monash.edu

Environmental determinants of disability accumulation in Multiple Sclerosis  
Supervisor(s): Dr Vilija Jokubaitis and Prof Helmut Butzkueven  
Email: Vilija.Jokubaitis@monash.edu

Women's Health in multiple sclerosis: Investigating impact of pregnancy on MS outcomes, and the impact of MS therapies on cervical dysplasia risk.  
Supervisor(s): Dr Vilija Jokubaitis and Assoc Prof Anneke van der Walt, Prof Helmut Butzkueven, Assoc Prof Julia Brotherton (External)  
Email: Vilija.Jokubaitis@monash.edu
Melbourne Sexual Health Centre

The Melbourne Sexual Health Centre (MSHC) is a specialised unit for the diagnosis and treatment of sexually transmissible infections (STI/HIV) and is a principal centre for training health professionals in Victoria. The Centre conducts epidemiological, public health and clinical research primarily aimed at improving the services offered at MSHC.

See more: www.mshc.org.au/

Projects Available:

Studies in Sexual Health Medicine
Supervisor(s): Professor Christopher Fairley and Dr Eric Chow
Email: Christopher.Fairley@monash.edu

Sequence of sexual activities among men who have sex with men
Supervisor(s): Dr Eric Chow and Prof Christopher Fairley
Email: Eric.Chow@monash.edu

Comparing access to sexual health services between Medicare beneficiaries and non-Medicare beneficiaries
Supervisor(s): Dr Eric Chow and Prof Christopher Fairley
Email: Eric.Chow@monash.edu

Characteristics and sexually transmitted infections between men who have sex with men only (MSMO) and men who have sex with men and women (MSMW)
Supervisor(s): Dr Eric Chow and Prof Christopher Fairley
Email: Eric.Chow@monash.edu
Monash Alfred Psychiatry Research Centre

Monash Alfred Psychiatry research centre (MAPrc) is one of Australia’s largest clinical research centres in psychiatry. The centre has a long track record of producing world class research with direct clinical translation.

The key goal of MAPrc is to conduct clinical research aimed at developing new treatments with direct, effective, and immediate applications. The research covers all ages and many different mental illnesses. MAPrc research is integrated with clinical practice, based in the Alfred Hospital in affiliation with Monash University.

We have a multidisciplinary group of researchers with a research agenda that meets clinical and social needs and has a short 1-5 year timeline to real clinical impact.

See more: www.maprc.org.au/

Projects Available:

Exploring cognition and personality and its role in pain modulation following transcranial Direct Current Stimulation (tDCS)
Supervisor: Dr Bernadette Fitzgibbon
Email: Bernadette.Fitzgibbon@monash.edu

Impact of type and timing of childhood trauma on adult cognition and emotion regulating in complex trauma disorders
Supervisor(s): Dr Caroline Gurvich and Dr Natalie Thomas, Prof Jayashri Kulkarni
Email: Caroline.Gurvich@monash.edu

Cognitive functioning and emotion processing during the menopause transition
Supervisor(s): Dr Caroline Gurvich and Prof Jayashri Kulkarni, Dr Natalie Thomas
Email: Caroline.Gurvich@monash.edu

Cognitive functioning, sex hormones and cognitive changes with aging
Supervisor(s): Dr Caroline Gurvich and Assoc Prof Kate Hoy
Email: Caroline.Gurvich@monash.edu

Case control study of neonatal intensive care / special care nursery (NICU/SCN) admissions and antipsychotic exposure using data from the National Register of Antipsychotic Use in Pregnancy (NRAMP)
Supervisor(s): Professor Jayashri Kulkarni and Dr Carolyn Breadon
Email: Jayashri.Kulkarni@monash.edu

Cross sectional study of trauma history, personality and psychopathology in a community sample
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas
Email: Jayashri.Kulkarni@monash.edu

Study of premenstrual dysphoric disorder (PMDD) in women with borderline personality disorder (BPD)
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas
Email: Jayashri.Kulkarni@monash.edu

Toddler and pre-school development in children (1-5 years) born to women who took antipsychotic medication during pregnancy, using data from the National Register of Antipsychotic Medication in Pregnancy (NRAMP)
Supervisor(s): Professor Jayashri Kulkarni and Dr Carolyn Breadon
Email: Jayashri.Kulkarni@monash.edu
Cognitive functioning and emotion processing associated with perimenopausal depression (healthy control subjects compared with depressed patient data)  
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich  
Email: Jayashri.Kulkarni@monash.edu

Depression and the oral contraceptive pill substudy of types of pill used and depressive mood  
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas  
Email: Jayashri.Kulkarni@monash.edu

Cross sectional study of borderline personality disorder symptomatology and trauma history in women with polycystic ovary syndrome compared to healthy controls  
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas  
Email: Jayashri.Kulkarni@monash.edu

Impact of type and timing of childhood trauma on adult cognition and emotion regulation in borderline personality disorder (BPD)  
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas  
Email: Jayashri.Kulkarni@monash.edu

Investigating comorbid diagnosis of eating disorders and borderline personality disorder: prevalence and symptomatology  
Supervisor(s): Professor Jayashri Kulkarni and Dr Caroline Gurvich, Dr Natalie Thomas  
Email: Jayashri.Kulkarni@monash.edu

Increasing the speed of thought: Using brain stimulation to enhance speed of information processing  
Supervisor(s): Assoc Professor Kate Hoy and Dr Bernadette Fitzgibbon  
Email: Kate.Hoy@monash.edu

Does tACS have potential as a new treatment for depression in young people?  
Supervisor(s): Dr Manreena Kaur and Assoc Prof Kate Hoy, Dr Neil Bailey, Dr Bernadette Fitzgibbon  
Email: Manreena.Kaur@monash.edu

The neurobiology of borderline personality disorder  
Supervisor(s): Dr Robin Cash and Prof Paul Fitzgerald  
Email: Robin.Cash@monash.edu

Exploring the neurobiology of depression with brain stimulation  
Supervisor(s): Dr Robin Cash and Prof Paul Fitzgerald  
Email: Robin.Cash@monash.edu

Enhancing plasticity induction using brain stimulation  
Supervisor(s): Dr Robin Cash and Prof Paul Fitzgerald  
Email: Robin.Cash@monash.edu

Does contact with a Suicide Prevention Assertive Outreach Team improve state hope and coping self-efficacy to reduce suicidal ideation and hospitalisation?  
Supervisor(s): Dr Stuart Lee and Dr Angela Wright(External), Dr Bernadette Fitzgibbon, Dr Daniel Rylatt(External)  
Email: Stuart.Lee@monash.edu

Using machine learning to model clinical factors that predict the use of restrictive interventions during aggression episodes across three public hospitals  
Supervisor(s): Dr Stuart Lee and Dr Michelle Ananda-Rajah, Dr Dhanya Nambiar  
Email: Stuart.Lee@monash.edu
Department of Surgery

The Department of Surgery is a premier centre for clinical and surgical research and education, contributing to Monash's medical education program and offering postgraduate study programs. Research in the Department of Surgery includes programs in a wide variety of areas including trauma, burns, cardiothoracic, colorectal, endocrine, upper gastrointestinal, urology, orthopaedics, spine injury, general surgery and neurosurgery specialisations. The Department of Surgery is closely associated with the National Trauma Research Institute.

See more:
- [www.monash.edu/medicine/ccs/surgery-alfred](http://www.monash.edu/medicine/ccs/surgery-alfred)
- [www.ntri.org.au/](http://www.ntri.org.au/)

Projects Available:

**Venous thromboembolism in burn injured patients are we underestimating the risk and under-dosing for prophylaxis?**
Supervisor(s): Dr Heather Cleland and Dr Cheng Lo
Email: Heather.Cleland@monash.edu

**Prospective, randomised, controlled trial studying the analgesic effects of intravenous lignocaine on donor site pain in patients with burns.**
Supervisor(s): Dr Heather Cleland and Dr Kerry McLaughlin
Email: Heather.Cleland@monash.edu

**Measuring the inflammatory response to bariatric surgery**
Supervisor(s): Dr Paul Burton
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**Outcomes of gastro-oesophageal cancer in Victoria**
Supervisor(s): Dr Paul Burton
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**Obesity related systemic inflammation as a driver of Non-alcoholic fatty liver disease**
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Email: Paul.Burton@monash.edu

**Examining the inflammatory profile of adipose tissue in oesophageal cancer.**
Supervisor(s): Dr Paul Burton
Email: Paul.Burton@monash.edu

**Outcomes of major bariatric surgical procedures**
Supervisor(s): Dr Paul Burton
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**Comparative outcomes of sleeve gastrectomy and adjustable gastric banding**
Supervisor(s): Dr Paul Burton
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**The role of oesophageal manometry in Upper GI surgery**
Supervisor(s): Dr Paul Burton
Email: Paul.Burton@monash.edu

**Investigating use of platelet lysate as a substitute for bovine serum for human adult keratinocyte isolation and expansion**
Supervisor(s): Dr Shiva Akbarzadeh and Assoc Prof Justine Hamilton, Assoc Prof Heather Cleland
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**Human derived feeder and serum for the xeno-free expansion of adult keratinocytes**
Supervisor(s): Dr Shiva Akbarzadeh and Assoc Prof Heather Cleland
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**Intravenous access for traumatic shock**
Supervisor: Prof Mark Fitzgerald
Email: Mark.fitzgerald@monash.edu

**Reviewing the impact of The Alfred international trauma training programs**
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Research project database: https://supervisorconnect.med.monash.edu/research-projects

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