

Bachelor of Medical Science (Honours) 2018 Projects Central Clinical School



Contents

	1
Bachelor of Medical Science (Honours) and postgraduate study through CCS	3
How to use this index booklet	3
Making your application	3
For information regarding BMedSc(Hons) and postgraduate study at CCS	3
Australian Centre for Blood Diseases	5
Burnet Institute	7
Department of Diabetes	8
Department of Immunology and Pathology	10
Department of Infectious Diseases	12
Department of Medicine	14
Department of Neuroscience	15
Melbourne Sexual Health Centre	18
Monash Alfred Psychiatry Research Centre	19
Department of Surgery	21
Contact us	22

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 \(ACBD\)](#)
- [Burnet Institute](#)
- [Department of Diabetes](#)
- [Department of Immunology and Pathology](#)
- [Department of Infectious Diseases](#)
- [Department of Medicine](#)
- [Melbourne Sexual Health Centre \(MSHC\)](#)
- [Monash Alfred Psychiatry research centre \(MAPrc\)](#)
- [Department of Neuroscience](#)
- [Department of Surgery](#)



How to use this index booklet

This index booklet lists the Honours and PhD projects on offer for 2018. For further information about a particular research project, see the project description in the online database at:

studentresearchprojects.med.monash.edu.au/

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 [8 August 2017](#).

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:

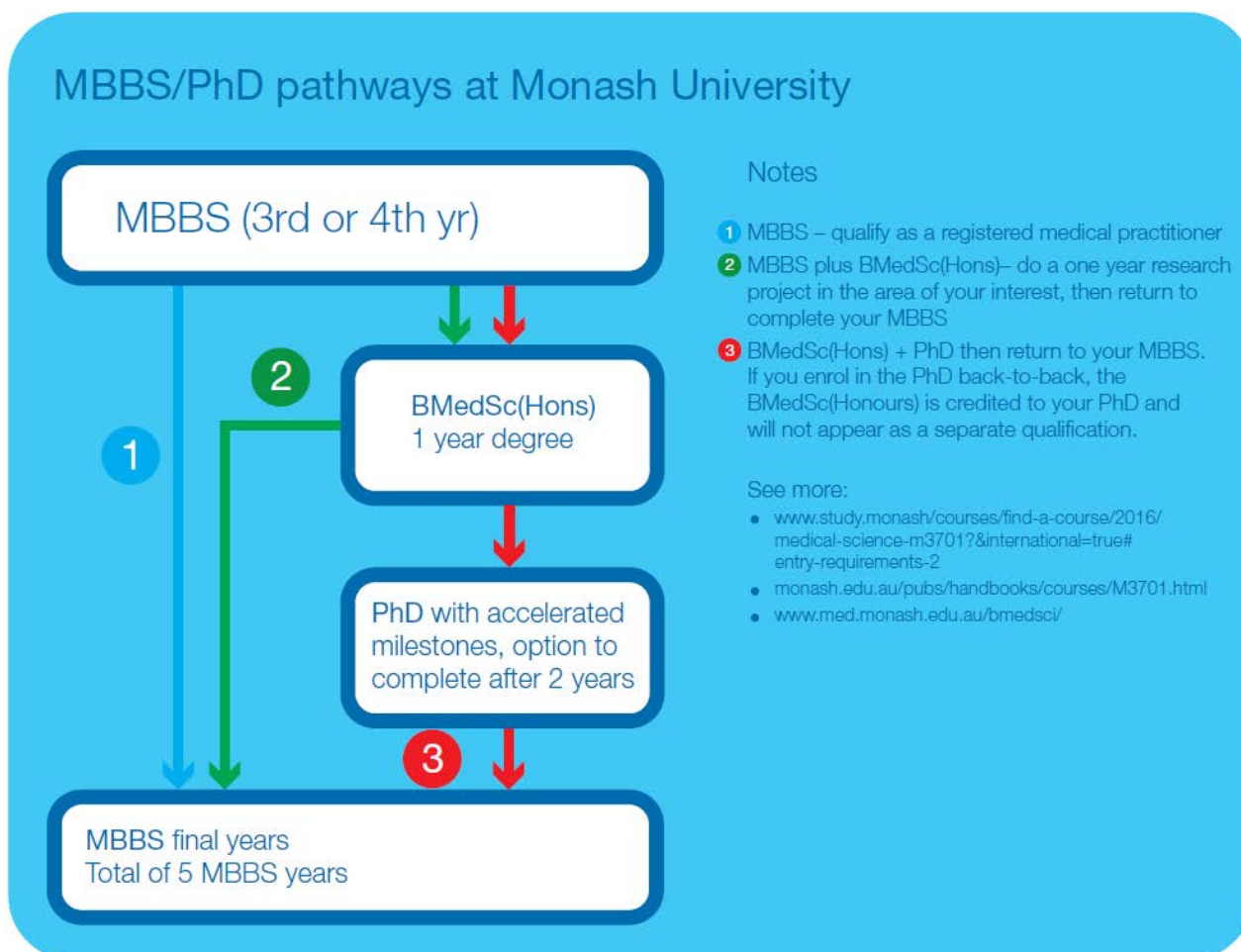
E: hdr.ccs@monash.edu

T: 03 9903 0368

Further links

- www.study.monash/courses/find-a-course/2017/medical-science-m3701
- www.med.monash.edu.au/cecs/education/bmedsc-honours.html
- www.study.monash/fees-scholarships/scholarships/find/international-student-scholarships/amrep

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:

- www.study.monash/courses/find-a-course/2017/medical-science-m3701
- www.med.monash.edu.au/bmedsc-hons/

Australian Centre for Blood Diseases



Ms Shweta Jagdale and Dr Christoph Hagemeyer

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.acbd.monash.org/

Projects Available:

[Novel nanotheranostics for cancer](#)

Supervisor(s): Dr Karen Alt and A/Prof Christoph Hagemeyer

Email: karen.alt@monash.edu

[Platelet Analysis](#)

Supervisor(s): A/Prof Robert Andrews

Email: rob.andrews@monash.edu

[Investigating the role of the methyltransferase Prmt5 in haematopoietic cells](#)

Supervisor(s): A/Prof David Curtis and Dr Stefan Sonderegger

Email: david.curtis@monash.edu

[Stimulating cell cycle to sensitize leukemic cells to chemotherapy](#)

Supervisor(s): A/Prof David Curtis and Dr Cedric Tremblay

Email: david.curtis@monash.edu

[Impact of Prmt5-mediated inhibition of splice factors on Myelodysplastic syndrome](#)

Supervisor(s): A/Prof 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): A/Prof David Curtis and Dr Emma Toulmin

Email: emma.toulmin@monash.edu

[Releasing the differentiation block in acute myeloid leukaemia](#)

Supervisor(s): A/Prof Ross Dickins and A/Prof Matthew McCormack

Email: ross.dickins@monash.edu

[Targeting \(homing\) stem cells for the treatment of atherosclerosis, myocardial infarction and stroke](#)

Supervisor(s): A/Prof Christoph Hagemeyer and Dr Thomas Bonnard

Email: christoph.hagemeyer@monash.edu

[Single-chain antibody-targeted nanoparticles for diagnosis of vascular diseases](#)

Supervisor(s): A/Prof Christoph Hagemeyer and Dr Karen Alt

Email: christoph.hagemeyer@monash.edu

[Targeted virus particles for genetic transfer of fusion proteins to inhibit atherosclerosis](#)

Supervisor(s): A/Prof Christoph Hagemeyer and Ms Hannah Pearce

Email: christoph.hagemeyer@monash.edu

[Glucose responsive insulin nanoparticle for the treatment of diabetes](#)

Supervisor(s): A/Prof Christoph Hagemeyer and Dr Ting-Yi Wang
Email: christoph.hagemeyer@monash.edu

[Recombinant agents for efficient and safe anticoagulation and thrombolysis](#)

Supervisor(s): A/Prof Christoph Hagemeyer and Dr Thomas Bonnard
Email: christoph.hagemeyer@monash.edu

[Understanding the role of Snai1 in hematopoiesis and leukemic transformation](#)

Supervisor(s): Assoc Prof Jody Haigh and Dr Catherine Carmichael
Email: jody.haigh@monash.edu

[Characterizing the role of the transcription factors Zeb1/2 in leukaemia](#)

Supervisor(s): Assoc Prof Jody Haigh, Dr Catherine Carmichael and Dr Jackie Wang
Email: jody.haigh@monash.edu

[Inhibition of the platelet thrombin receptor PAR4 to prevent thrombosis in coronary artery disease](#)

Supervisor(s): Dr Justin Hamilton and Prof Harshal Nandurkar
Email: Justin.Hamilton@monash.edu

[Targeting a novel anti-platelet mechanism for improved anti-thrombotic therapy](#)

Supervisor(s): Dr Justin Hamilton and Prof Harshal Nandurkar
Email: Justin.Hamilton@monash.edu

[Cytokine signalling in myeloid leukaemia](#)

Supervisor(s): Dr Anissa Jabbour and Dr Mark Guthridge
Email: anissa.jabbour@monash.edu

[The role of the homeobox transcription factor Hhex in Acute Myeloid Leukaemia](#)

Supervisor(s): A/Prof Matthew McCormack and Dr Benjamin Shields
Email: matthew.mccormack@monash.edu

[The effect of anti-fibrinolytic agents on the immune and inflammatory response following major trauma](#)

Supervisor(s): Prof Robert Medcalf and Dr Dominik Draxler
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): Prof Robert Medcalf, Prof Ben Boyd (MIPS) and Dr Be'eri Niego

Email: robert.medcalf@monash.edu

[Rho-kinase and LDL-receptor inhibition as a novel strategy to protect the blood-brain barrier during ischaemic stroke; an in vitro study](#)

Supervisor(s): Prof Robert Medcalf and Dr Be'eri Niego
Email: robert.medcalf@monash.edu

[To evaluate new drugs to improve the response to traumatic brain injury](#)

Supervisor(s): Prof Robert Medcalf, Prof Ben Boyd and Dr Dominik Draxler
Email: robert.medcalf@monash.edu

[Identification of self-renewal networks in T-cell leukemia](#)

Supervisor(s): A/Prof Matthew McCormack and Dr Benjamin Shields
Email: matthew.mccormack@monash.edu

[Development and engineering of novel automated microfluidic systems for high content drug screening](#)

Supervisor(s): Dr Warwick Nesbitt and Prof Harshal Nandurkar
Email: warwick.nesbitt@monash.edu

[Development of biophotonic blood sensors for cardiac biomarker testing](#)

Supervisor(s): Dr Warwick Nesbitt, Prof Harshal Nandurkar and Prof Arnan Mitchell
Email: warwick.nesbitt@monash.edu

[Analysing new targets of JAK-STAT signalling in normal blood development and blood cancers](#)

Supervisor(s): Prof Andrew Perkins and Dr Kevin Gillinder
Email: andrew.perkins@monash.edu

[Gene editing of a master regulator of transcription to cure sickle cell disease](#)

Supervisor(s): Prof Andrew Perkins and Dr Kevin Gillinder
Email: andrew.perkins@monash.edu

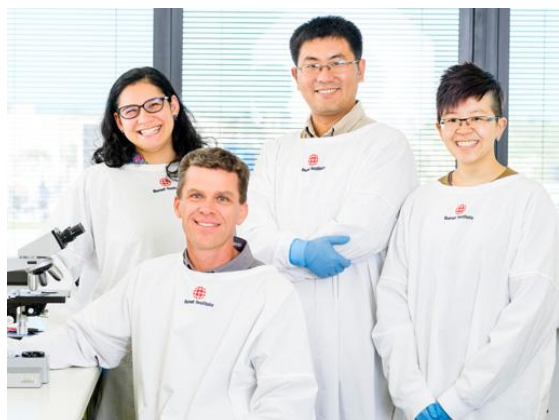
[Reprogramming differentiated adult cells into hematopoietic stem cells](#)

Supervisor(s): Prof Andrew Perkins and A/Prof Jody Haigh
Email: andrew.perkins@monash.edu

[Developing humanized models of hematopoiesis and leukaemia](#)

Supervisor(s): Assoc Prof Andrew Wei and Dr Jessica Salmon
Email: a.wei@alfred.org.au

Burnet Institute



James Beeson's group

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:

<https://www.burnet.edu.au/>

Projects Available:

[Discovering the mechanisms and targets of immunity against malaria](#)

Supervisor(s): Prof James Beeson and Dr Philippe Boeuf

Email: james.beeson@burnet.edu.au

[Developing vaccines against malaria](#)

Supervisor(s): Prof James Beeson and Dr Jack Richards

Email: james.beeson@burnet.edu.au

[Understanding malaria transmission and immunity to inform malaria elimination](#)

Supervisor(s): Prof James Beeson and Dr Jack Richards

Email: james.beeson@burnet.edu.au

[Healthy Mothers, Healthy Babies: maternal nutrition and inflammation and their impact on pregnancy outcomes](#)

Supervisor(s): Prof James Beeson and Dr Philippe Boeuf

Email: james.beeson@burnet.edu.au

[Investigating how monocytes drive increased cardiovascular disease in HIV infection](#)

Supervisor(s): Dr Anna Hearps and A/Prof Anthony Jaworowski

Email: annah@burnet.edu.au

[Killing HIV-infected macrophages as part of a strategy to cure HIV](#)

Supervisor(s): A/Prof Anthony Jaworowski and Dr Anna Hearps

Email: anthony.jaworowski@burnet.edu.au

Department of Diabetes



2017 Diabetes research group leaders

The newly instituted 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:

<http://med.monash.edu.au/diabetes>

Projects Available:

[Characterization of the prototype inhibitor of CDA1, CHA-061, in diabetic nephropathy in Akita mice](#)

Supervisor(s): Dr Zhonglin Chai and Prof Mark Cooper

Email: zhonglin.chai@monash.edu

[Characterization of the prototype inhibitor of CDA1, CHA-061, in diabetic nephropathy in db/db mice](#)

Supervisor(s): Dr Zhonglin 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 Zhonglin Chai and Prof Mark Cooper

Email: zhonglin.chai@monash.edu

[Exploring the molecular consequences of processed food intake](#)

Supervisor(s): A/Prof Melinda Coughlan

Email: melinda.coughlan@monash.edu

[Targeting the C5a-CD88 axis in diabetic nephropathy](#)

Supervisor(s): A/Prof Melinda Coughlan and Dr Min Tan

Email: melinda.coughlan@monash.edu

[Investigating pathways of mitochondrial quality control in diabetic kidney disease](#)

Supervisor(s): A/Prof Melinda Coughlan and Dr Gavin Higgins

Email: melinda.coughlan@monash.edu

[Epigenetics of diabetes, mapping the human methylome and building the epigenomic atlas of Type 1 Diabetes](#)

Supervisor(s): Prof Sam El-Osta, Dr Jun Okabe and Dr Mark Ziemann

Email: sam.el-osta@monash.edu

[The legacy of memory](#)

Supervisor(s): Prof Sam El-Osta, Dr Jun Okabe and Dr Mark Ziemann

Email: sam.el-osta@monash.edu

[Set7 methyltransferase as a target to reduce the burden of diabetic complications](#)

Supervisor(s): Prof Sam El-Osta, Dr Jun Okabe and Dr Haloom Rafehi

Email: sam.el-osta@monash.edu

[Clinical epigenetics and molecular based therapies](#)

Supervisor(s): Prof Sam El-Osta, Dr Hari Kn and Dr Mark Ziemann

Email: sam.el-osta@monash.edu

[Role of non-coding RNAs in vascular disease](#)

Supervisor(s): Prof Sam El-Osta, Dr Haloom Rafehi and Dr Mark Ziemann

Email: sam.el-osta@monash.edu

[NOX5 as a new target in human diabetic nephropathy](#)

Supervisor(s): Prof Karin Jandeleit-Dahm, Dr Jay Chandra Jha and Dr Anna Watson

Email: karin.jandeleit-dahm@monash.edu

[Role of pro-oxidant enzyme Nox5 in diabetic kidney disease](#)

Supervisor(s): Prof Karin Jandeleit-Dahm and Dr Jay C Jha

Email: karin.jandeleit-dahm@monash.edu

[Role of Nox5 in diabetes-associated atherosclerosis](#)

Supervisor(s): Prof Karin Jandeleit-Dahm and Dr Geetha Mathew

Email: karin.jandeleit-dahm@monash.edu

[The protective effects of Lipoxin A4 against diabetic nephropathy](#)

Supervisor(s): Dr Phillip Kantharidis, Prof Karin Jandeleit-Dahm and Prof Mark Cooper

Email: phillip.kantharidis@monash.edu

[Novel anti-inflammatory agents targeting atherosclerosis development in diabetes](#)

Supervisor(s): Dr Phillip Kantharidis, Prof Karin Jandeleit-Dahm and Prof Mark Cooper
Email: phillip.kantharidis@monash.edu

[RNA biomarkers predictive of the development of diabetic nephropathy](#)

Supervisor(s): Dr Phillip Kantharidis, Prof Karin Jandeleit-Dahm and Prof Mark Cooper
Email: phillip.kantharidis@monash.edu

[Topical wound healing formulations in the context of diabetic complications](#)

Supervisor(s): Dr Tom Karagiannis and Dr Ken Ng
Email: tom.karagiannis@monash.edu

[Molecular mechanisms of action of dietary antioxidants and chromatin modifying compounds](#)

Supervisor(s): Dr Tom Karagiannis and Dr Ken Ng
Email: tom.karagiannis@monash.edu

[Augmenting the expression and activity of glyoxalase-1 as a means to slow ageing](#)

Supervisor(s): Prof Merlin Thomas and Dr Raelene Pickering
Email: Merlin.Thomas@monash.edu

[Cell penetrating peptides as a means to deliver intracrine hormones](#)

Supervisor(s): Prof Merlin Thomas and Dr Carlos Rosado
Email: Merlin.Thomas@monash.edu

[Modulating ACE2 shedding to prevent diabetic complications](#)

Supervisor(s): Prof Merlin Thomas and Dr Christos Tikellis
Email: Merlin.Thomas@monash.edu

[Does renal dopamine help or hinder diabetic kidney disease?](#)

Supervisor(s): Dr Anna Watson and Prof Karin Jandeleit-Dahm
Email: Anna.Watson@monash.edu

[Do diabetes and hypertension contribute to changes in the control of the sympathetic nervous system?](#)

Supervisor(s): Dr Anna Watson and Prof Karin Jandeleit-Dahm
Email: Anna.Watson@monash.edu

[Lipoxins, a novel treatment to attenuate inflammation and sight-threatening retinopathy in diabetes](#)

Supervisor(s): Prof Jennifer Wilkinson-Berka, Prof Karin Jandeleit-Dahm and Dr Phillip Kantharidis
Email: jennifer.wilkinson-berka@monash.edu

Department of Immunology and Pathology



Immunology department volunteers at Day of Immunology

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.

There are extensive research programs in basic and translational immunology, including 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://med.monash.edu.au/immunology/>

Projects Available:

[Inhibition of the NLRP3-inflammasome as a novel strategy to limit diabetic cardiomyopathy](#)

Supervisor(s): A/Prof Judy B. de Haan and A/Prof Rebecca Ritchie

Email: judy.dehaan@baker.edu.au

[Activating the major regulator of oxidative stress, Nrf2, with novel small molecules to limit diabetic vascular disease](#)

Supervisor(s): A/Prof Judy B. de Haan, Dr Geetha Mathew and Dr Arpeeta Sharma

Email: judy.dehaan@baker.edu.au

[Improving endothelial dysfunction through the use of Nrf2 activators as a novel treatment strategy to lessen diabetes-associated hypertension](#)

Supervisor(s): A/Prof Judy B. de Haan, Prof Geoff Head, Dr Arpeeta Sharma and Dr Geetha Mathew
Email: judy.dehaan@baker.edu.au

[The link between Trauma, Mental Illness and Immunology](#)

Supervisor(s): Prof Magdalena Plebanski, Prof Jayashri Kulkarni, Dr Caroline Gurvich and Dr Natalie Thomas

Email: magdalena.plebanski@monash.edu

[New insights into the biology of brain tumours \(glioblastoma\) and vaccine design](#)

Supervisor(s): Prof Magdalena Plebanski, Prof Martin Hunn and Dr Jennifer Boer

Email: magdalena.plebanski@monash.edu

[Optimising treatment against ovarian cancer](#)

Supervisor(s): Prof Magdalena Plebanski, A/Prof Clare Scott and Dr Nirmala Kampan

Email: magdalena.plebanski@monash.edu

[Optimising the use of vaccines in the vulnerable elderly](#)

Supervisor(s): Prof Magdalena Plebanski, A/Prof Katie Flanagan and Dr Kirsty Wilson

Email: magdalena.plebanski@monash.edu

[Impact of Multidisciplinary Meeting on quality and value of care for lung cancer patients](#)

Supervisor(s): Assoc Prof Rob Stirling and Dr Julian Gooi

Email: r.stirling@alfred.org.au

[Understanding How Antibodies Contribute to Lung Transplant Rejection](#)

Supervisor(s): Prof David Tarlinton and A/Prof Glen Westall

Email: david.tarlinton@monash.edu

[How Does the Absence of One Enzyme Block an Entire Immune Response?](#)

Supervisor(s): Prof David Tarlinton and A/Prof Margaret Hibbs

Email: david.tarlinton@monash.edu

[Resolving the conundrum of antibody deficiency and autoimmunity in patients with primary immunodeficiency](#)

Supervisor(s): A/Prof Menno van Zelm, Prof Robyn O'Hehir and Dr. Raffi Gugasyan

Email: menno.vanzelm@monash.edu

[B-cell – T-cell interactions driving granulomatous inflammation in Crohn's disease](#)

Supervisor(s): A/Prof Menno van Zelm, Prof Peter Gibson and A/Prof Margaret Hibbs
Email: menno.vanzelm@monash.edu

[Specificity and memory in allergic responses to bee venom](#)

Supervisor(s): A/Prof Menno van Zelm, Dr Craig McKenzie and Prof Robyn O'Hehir
Email: menno.vanzelm@monash.edu

Department of Infectious Diseases



Dr Orla Morrissey at the highly successful 2016 Advanced Course on Infections in the Immunocompromised Host

The Department of Infectious Diseases (DID), Central Clinical School and Alfred Health, incorporates 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. DID integrates clinical services with clinical and basic science research. It offers undergraduate and postgraduate study programs.

See more:

www.med.monash.edu.au/cecs/infectious-diseases/

Projects Available:

[Prevalence of hepatitis B infection in Australian Prisons](#)

Supervisor(s): Dr Joseph Doyle, Dr Jessica Howell and Prof Alex Thompson

Email: joseph.doyle@monash.edu

[Barriers to hepatocellular carcinoma screening uptake in Victoria](#)

Supervisor(s): Dr Joseph Doyle, Dr Jessica Howell and Prof Alex Thompson

Email: joseph.doyle@monash.edu

[Clinical utility and cost-effectiveness of screening for latent tuberculosis among health care workers in Australia](#)

Supervisor(s): Dr Joseph Doyle and Prof Allen Cheng

Email: joseph.doyle@monash.edu

[Hepatitis B screening and antiviral prophylaxis during immunosuppression: understanding current clinical practice and acceptability of clinical guidelines](#)

Supervisor(s): Dr Joseph Doyle and Prof Anton Peleg

Email: joseph.doyle@monash.edu

[Predicting and reducing hepatitis C reinfection following treatment among people who injecting drugs](#)

Supervisor(s): Dr Joseph Doyle and 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 Prof Margaret Hellard

Email: joseph.doyle@monash.edu

[Examining hepatitis C reinfection following treatment among HIV co-infected gay and bisexual men](#)

Supervisor(s): Dr Joseph Doyle and Prof Margaret Hellard

Email: joseph.doyle@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): A/Prof Michelle Giles and A/Prof Kathy Petoumenos

Email: m.giles@alfred.org.au

[A mobile, outreach vaccination program to increase influenza vaccination coverage among vulnerable populations](#)

Supervisor(s): A/Prof Michelle Giles and Prof Allen Cheng

Email: michelle.giles@monash.edu

[What are healthcare provider and consumer attitudes to breastfeeding by women infected with HIV in a high income setting?](#)

Supervisor(s): A/Prof Michelle Giles and Prof Jennifer Hoy

Email: michelle.giles@monash.edu

[Understanding and reducing the barriers to community based point of care hepatitis C testing in people who inject drugs](#)

Supervisor(s): Prof Margaret Hellard and Dr Joseph Doyle

Email: hellard@burnet.edu.au

[HIV and Heart Disease](#)

Supervisor(s): Prof Jennifer Hoy and Dr Anna Hearps
Email: Jennifer.Hoy@monash.edu

[The Impact of Infections on the Development of Chronic Rejection Post-Lung Transplantation](#)

Supervisor(s): Dr Orla Morrissey, Prof Anton Peleg, Prof Greg Snell and A/Prof Andy Fisher
Email: o.morrissey@alfred.org.au

[Determining the Impact of Host Immune Responses to Aspergillus and Aspergillus Genotypes on Patients Post-Lung Transplantation: A Roadmap to Developing Improved Antifungal Strategies](#)

Supervisor(s): Dr Orla Morrissey, A/Prof Rose Ffrench, Prof. Greg Snell, Dr Harini de Silva and A/Prof Glen Westall
Email: o.morrissey@alfred.org.au

[Elucidating Immune Function in Haematology Patients undergoing Chemotherapy: Novel Methods for Developing Improved Antifungal Strategies](#)

Supervisor(s): Dr Orla Morrissey, A/Prof Rose Ffrench, Dr Harini de Silva, Prof Andrew Spencer and A/Prof Erica Wood
Email: o.morrissey@alfred.org.au

[Clinical and Molecular Epidemiology of Mycobacterium Abscessus Isolation Pre- and Post-Lung Transplantation](#)

Supervisor(s): Dr Orla Morrissey, Prof Greg Snell, Dr. Cameron Wolfe and Prof Anton Peleg
Email: o.morrissey@alfred.org.au

[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, A/Prof Rose Ffrench and Dr Harini de Silva
Email: o.morrissey@alfred.org.au

[Orthopaedic Surgical Site Infection Study](#)

Supervisor(s): Dr Trisha Peel and Prof Anton Peleg
Email: Trisha.Peel@monash.edu.au

[Cardiac Surgery Surgical Site Infection Study](#)

Supervisor(s): Dr Trisha Peel and Prof Anton Peleg
Email: Trisha.Peel@monash.edu.au

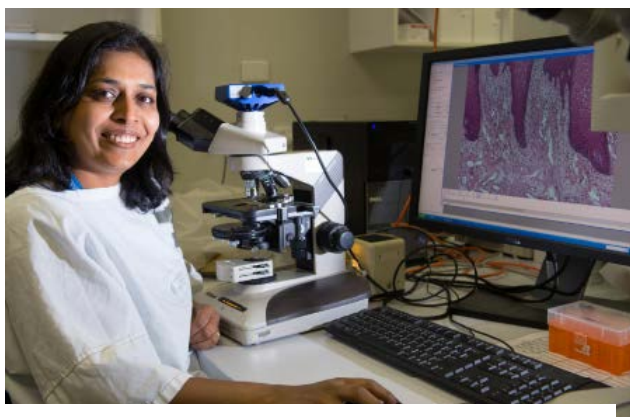
[Community Acquired Pneumonia Management](#)

Supervisor(s): Dr Trisha Peel and Prof Anton Peleg
Email: Trisha.Peel@monash.edu.au

[Qualitative perspective on the Patient, Surgeon and Physician views on surgical site infections](#)

Supervisor(s): Dr Trisha Peel and Prof Anton Peleg
Email: Trisha.Peel@monash.edu

Department of Medicine



Dr Smitha Georgy

The Central Clinical School's Department of Medicine within the Division of Clinical Sciences is based at the Alfred Medical Research and Education Precinct (AMREP). Co-located with a number of world class research institutions and Alfred Health, the Department of Medicine is a premier centre for clinical and biomedical research and education, offering undergraduate and postgraduate study programs.

Research in the Department of Medicine 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.med.monash.edu.au/medicine/alfred/

Projects Available:

[Exploring the molecular basis of spina bifida and anencephaly using mouse models](#)

Supervisor(s): Dr Marina Carpinelli and Prof Stephen Jane

Email: marina.carpinelli@monash.edu

[Exploring the molecular basis of spina bifida and anencephaly using cell lines](#)

Supervisor(s): Dr Marina Carpinelli and Prof Stephen Jane

Email: marina.carpinelli@monash.edu

[Therapeutic targeting of Grhl3 dependent pathways in Head and Neck SCC](#)

Supervisor(s): Dr Smitha Georgy and Prof Stephen Jane

Email: smitha.georgy@monash.edu

[Oesophageal Squamous Cell Carcinoma-identification of molecular pathogenesis](#)

Supervisor(s): Dr Smitha Georgy and Prof Stephen Jane

Email: smitha.georgy@monash.edu

[Development of new therapeutic approaches the target airway remodelling in asthma](#)

Supervisor(s): Dr Simon Royce and A/Prof Chishan Samuel

Email: simon.royce@monash.edu

[Potential anti-fibrotic treatment for idiopathic pulmonary fibrosis and chronic lung allograft dysfunction](#)

Supervisor(s): Dr Simon Royce and A/Prof Chishan Samuel

Email: simon.royce@monash.edu

[Targeting effector memory T cells to treat inflammatory bowel disease](#)

Supervisor(s): Dr Simon Royce, Prof Ray Norton and Dr Mayur Garg

Email: simon.royce@monash.edu

[Dissecting cellular hierarchies in normal and neoplastic melanocytic development](#)

Supervisor(s): Prof Mark Shackleton

Email: Mark.Shackleton@petermac.org

[Studying the patterns of emergency call-out and outcomes for older people living with a personal alarm](#)

Supervisor(s): Prof Velandai Srikanth

Email: velandai.srikanth@monash.edu

Department of Neuroscience



Professor Terence O'Brien

Professor Terence O'Brien will be the new Head of the Department of Neuroscience and Van Cleef Roet Chair from October 2017. The specialist areas of the department will be investigation of neurological, neuroscience, neurobehavioural, pharmacological and imaging with respect to cognition and various brain disorders including epilepsy, neuroinflammation, neurodegenerative diseases, brain tumours, stroke and traumatic brain injury.

Projects Available:

[Plasma biomarkers for epileptogenesis and epileptic seizures](#)

Supervisor(s): Dr Idrish Ali, Dr Kim Powell, Prof Terry O'Brien, Dr Pablo Casillas and A/Prof Nigel Jones
Email: idrish.ali@monash.edu

[Neurogenesis in epilepsy- protective or disruptive?](#)

Supervisor(s): Dr Idrish Ali, Prof Terry O'Brien and Dr Chris French
Email: idrish.ali@monash.edu

[The effect of epilepsy on bone](#)

Dr Rhys Brady, A/Prof Sandy Shultz, Prof Terence O'Brien, Dr Pablo Casillas-Espinosa
Email: rhys.brady@monash.edu

[Investigating the role of a Cav3.2 calcium channel mutation in contributing to the epileptic phenotype using congenic rat strains](#)

Supervisor(s): Dr Pablo Casillas-Espinosa, Dr Kim Powell and Prof Terry O'Brien
Email: pablo.casillas@unimelb.edu.au

[Biomarkers of epileptogenesis and epilepsy disease progression](#)

Dr Pablo Casillas-Espinosa, Prof Terence O'Brien, A/Prof Sandy Shultz, Prof Nigel Jones, Dr David Wright, Dr Idrish Ali, Dr Kim Powell
Email: pablo.casillas@unimelb.edu.au

[Neuropharmacological strategies for disease modification and prevention of the development of epilepsy](#)

Dr Pablo Casillas-Espinosa, A/Prof Sandy Shultz, A/Prof Nigel Jones, Dr Kim Powell, Prof Terence O'Brien
Email: pablo.casillas@unimelb.edu.au

[Seizure characterization and validation of genetically inbred strains FAST and SLOW as models of acquired epilepsy](#)

Dr Pablo Casillas-Espinosa, Dr Kim Powell, Prof Terry O'Brien
Email: pablo.casillas@unimelb.edu.au

[How do Anti-Epileptic Drugs Work?](#)

Supervisor(s): Dr Chris French, Prof Terry O'Brien and Prof David Williams
Email: Christopher.French1@monash.edu

[How do Antipsychotic Drugs Trigger Seizures?](#)

Supervisor(s): Dr Chris French, Prof David Williams and Prof Terry O'Brien
Email: Christopher.French1@monash.edu

[Multi-Electrode Recording in the Rat Brain](#)

Supervisor(s): Dr Chris French and Dr Idrish Ali
Email: Christopher.French1@monash.edu

[Keeping the Brain and the Heart in Sync – HERG channels in the CNS](#)

Supervisor(s): Dr Chris French and Prof David Williams
Email: Christopher.French1@monash.edu

[Modelling Epilepsy and Epilepsy Drug Effects– Computational Neuroscience Project](#)

Supervisor(s): Dr Chris French and Mr Patrick O'Brien
Email: Christopher.French1@monash.edu

[Sodium Channels in Epilepsy](#)

Supervisor(s): Dr Chris French and Prof Terry O'Brien
Email: Christopher.French1@monash.edu

[Network Activity in Brain Tissue Recorded with Combined Calcium, Voltage-Sensitive Dye and Genetically Encoded Voltage Sensors and Electrophysiology](#)

Supervisor(s): Dr Chris French and Prof David Williams
Email: Christopher.French1@monash.edu

[Effects of Drugs on Gamma Frequencies and other Cognition-Related Signals in the Rat](#)

Supervisor(s): Dr Chris French and A/Prof Anthony Hannan

Email: Christopher.French1@monash.edu

[Does stress contribute to epilepsy?](#)

Supervisor(s): A/Prof Nigel Jones and Dr. Idrish Ali

Email: nigel.jones@monash.edu

[Neural oscillations and cognition](#)

Supervisor(s): A/Prof Nigel Jones and Dr Jess Nithianantharajah

Email: nigel.jones@monash.edu

[Development of a low cost, point-of-care diagnostic platform](#)

Supervisor(s): Prof Patrick Kwan and Dr Jianxiong Chan

Email: jianxiong.chan@monash.edu

[Acquired epilepsy in Alzheimer's disease](#)

Supervisor(s): Prof Patrick Kwan, A/Prof Nigel Jones and Dr Jianxiong Chan

Email: jianxiong.chan@monash.edu

[Microglial activation and neurological disease](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien

Email: Mastura.Monif@monash.edu

[The contribution of P2X7R and microglial activation in the neurological deficits of temporal lobe epilepsy](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien

Email: Mastura.Monif@monash.edu

[Monocytes in Multiple Sclerosis](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien

Email: Mastura.Monif@monash.edu

[A Pharmacogenomics study of the teratogenicity valproate based on the prospective Australian Register for Anti-epileptic Drugs in Pregnancy](#)

Supervisor(s): Prof Terence O'Brien, Prof Frank Vajda and A/Prof Nigel Jones

Email: Terence.O'Brien@monash.edu

[Identifying Predictors of Death in Patients with Epileptic and Psychogenic Seizures](#)

Supervisor(s): Prof Terence O'Brien, Dr Charles Malpass and Dr Anne McIntosh

Email: Terence.O'Brien@monash.edu

[Defining antiepileptic drug treatment responses in patients with epilepsy](#)

Supervisor(s): Dr Piero Perucca

Email: piero.perucca@mh.org.au

[Electroencephalographic biomarkers of epilepsy after traumatic brain injury in humans and animal models](#)

Supervisor(s): Dr Piero Perucca, Dr Pablo Casillas-Espinosa, Prof Terence O'Brien, Prof Patrick Kwan

Email: piero.perucca@mh.org.au

[Investigating molecular and physiological determinants of Sudden Unexplained Death in Epilepsy in acquired and genetic animal models of epilepsy](#)

Supervisor(s): Dr Kim Powell and Prof Terry O'Brien

Email: kim.powell@monash.edu

[Does epilepsy cause a secondary cardiac channelopathy?](#)

Supervisor(s): Dr Kim Powell and Prof Terry O'Brien

Email: kim.powell@monash.edu

[Seizure characterization and validation of genetically inbred strains FAST and SLOW as models of acquired epilepsy](#)

Supervisor(s): Dr Kim Powell, Prof Terry O'Brien and Dr Pablo Casillas-Espinosa

Email: kim.powell@monash.edu

[Neuroimaging and neuropathological biomarkers of social dysfunction after paediatric brain injury](#)

Dr Bridgette Semple, Dr Sandy Shultz, Dr David Wright

Email: Bridgette.Semple@monash.edu

[Social rehabilitation to rescue social deficits after paediatric brain injury](#)

Dr Bridgette Semple, Prof Terry O'Brien

Email: Bridgette.Semple@monash.edu

[Does peripheral inflammation contribute to epileptogenesis after traumatic brain injury?](#)

Dr Bridgette Semple, Prof Terence O'Brien, Dr Pablo Espinosa

Email: Bridgette.Semple@monash.edu

[Seizure susceptibility and inflammation as risk factors for post-traumatic epilepsy](#)

Dr Bridgette Semple, Prof Terence O'Brien, Dr Pablo Espinosa

Email: Bridgette.Semple@monash.edu

[Myelin repair after traumatic brain injury in early life](#)

Dr Bridgette Semple, Dr Jessica Fletcher

Email: Bridgette.Semple@monash.edu

[Investigating whether mild traumatic brain injuries cause neurodegenerative disease](#)

Supervisor(s): A/Prof Sandy Shultz, Prof Terry O'Brien and Mr David Wright
Email: Sandy.Shultz@monash.edu

[How does aging affect traumatic brain injury pathology and outcomes?](#)

Supervisor(s): A/Prof Sandy Shultz, Dr Bridgette Semple and Mr David Wright
Email: Sandy.Shultz@monash.edu

[Can a common parasite alter brain injury outcomes?](#)

Supervisor(s): A/Prof Sandy Shultz, Mr Rhys Brady and Mr David Wright
Email: Sandy.Shultz@monash.edu

[Biomarkers for sports concussion](#)

Supervisor(s): A/Prof Sandy Shultz, Prof Terry O'Brien, Mr David Wright and Dr Pablo Cassillas Espinosa
Email: Sandy.Shultz@monash.edu

[The role and treatment of inflammation in brain injury and polytrauma](#)

Supervisor(s): A/Prof Sandy Shultz, Mr Rhys Brady and Dr Bridgette Semple
Email: Sandy.Shultz@monash.edu

[Source localisation of deep brain neuronal activity from scalp EEG](#)

Supervisor(s): Prof Dominic Thyagarajan, Prof Terry O'Brien and Dr Tim Guruyev
Email: dominic.thyagarajan@monash.edu

[New Biomarkers for mild Traumatic Brain Injury: CEST MRI](#)

Supervisor(s): Dr David Wright, A/Prof Sandy Shultz and Prof Terry O'Brien
Email: david.wright@monash.edu

[Sodium Imaging in mild Traumatic Brain Injury](#)

Supervisor(s): Dr David Wright, A/Prof Sandy Shultz, Prof Terry O'Brien and A/Prof Leigh Johnston
Email: david.wright@monash.edu

[Assessing Glymphatic Pathway function in Motor Neuron Disease using MRI](#)

Supervisor(s): Dr David Wright, A/Prof Sandy Shultz and Prof Terry O'Brien
Email: david.wright@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:

[Pattern of HIV serosorting in men who have sex with men](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Is kissing associated with pharyngeal gonorrhoea?](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Is kissing associated with pharyngeal chlamydia?](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Trends in gonorrhoea positivity among heterosexual men who had sex overseas](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Sequence of sexual activities among men who have sex with men](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Risk factors for pharyngeal gonorrhoea in female sex workers](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Understanding the pattern of kissing by age in men](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Evaluation of the implementation of an express HIV/STI testing clinic for men who have sex with men](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Party drugs, intimacy and sex](#)

Supervisor(s): Dr Eric Chow and Prof Christopher Fairley

Email: echow@mshc.org.au

[Studies in Sexual Health Medicine](#)

Supervisor(s): Prof Christopher Fairley and Dr Eric Chow

Email: cfairley@msch.org.au

[Exploring the potential population impacts of pre-exposure prophylaxis for sexually transmitted infections in men who have sex with men in Australia](#)

Supervisor(s): A/Prof Lei Zhang and Prof Christopher Fairley

Email: lei.zhang1@monash.edu

[Screening asymptomatic sexually transmitted infections among men who have sex with men in Australia](#)

Supervisor(s): A/Prof Lei Zhang and Prof Christopher Fairley

Email: lei.zhang1@monash.edu

[Can ceasing azithromycin use for sexually transmitted infection syndromes reduce the incidence of macrolide resistance developing in mycoplasma genitalium in men who have sex with men in Australia?](#)

Supervisor(s): A/Prof Lei Zhang, A/Prof Catriona Bradshaw and Prof Christopher Fairley

Email: lei.zhang1@monash.edu

Monash Alfred Psychiatry Research Centre



A/Prof Kate Hoy (left) supervising a research study subject

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 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

[The influence of genetics on neuroplasticity](#)

Supervisor(s): Dr Robin Cash and Prof Paul Fitzgerald

Email: robin.cash@monash.edu

[The neurobiology of borderline personality disorder](#)

Supervisor(s): Dr Robin Cash, Prof Paul Fitzgerald, Prof Jayashri Kulkarni, Dr Natalie Thomas

Email: robin.cash@monash.edu

[Exploring cognition and personality and its role in pain modulation following transcranial Direct Current Stimulation \(tDCS\)](#)

Supervisor(s): Dr Bernadette Fitzgibbon and A/Prof Kate Hoy

Email: bernadette.fitzgibbon@monash.edu

[Pain Perception in psychiatric and neurological disorders](#)

Supervisor(s): Dr Bernadette Fitzgibbon

Email: bernadette.fitzgibbon@monash.edu

[Brain stimulation combined with an adjunctive non-pharmaceutical treatment for the relief of persistent pain](#)

Supervisor(s): Dr Bernadette Fitzgibbon

Email: bernadette.fitzgibbon@monash.edu

[An investigation of Ultra-Runners](#)

Supervisor(s): Dr Bernadette Fitzgibbon and Dr Donna Urquhart

Email: bernadette.fitzgibbon@monash.edu

[Impact of type and timing of childhood trauma on adult cognition and emotion regulating in borderline personality disorder \(BPD\)](#)

Supervisor(s): Dr Caroline Gurvich and Prof Jayashri Kulkarni

Email: caroline.gurvich@monash.edu

[Cognitive functioning and emotion processing associated with perimenopausal depression \(healthy control subjects compared with depressed patient data\)](#)

Supervisor(s): Dr Caroline Gurvich and Prof Jayashri Kulkarni
Email: caroline.gurvich@monash.edu

[Increasing the speed of thought: Using brain stimulation to enhance speed of information processing](#)

Supervisor(s): A/Prof Kate Hoy and Dr Bernadette Fitzgibbon
Email: Kate.hoy@monash.edu

[Lost in translation: assessing the applicability of motor cortical tDCS findings to the DLPFC](#)

Supervisor(s): A/Prof Kate Hoy and Prof Paul Fitzgerald
Email: Kate.hoy@monash.edu

[Investigating the neurobiology of chemotherapy induced cognitive impairment \(CICI\) using non-invasive brain stimulation](#)

Supervisor(s): A/Prof Kate Hoy and Dr Stuart Lee
Email: Kate.hoy@monash.edu

[A First Investigation of Temporal Cortex Inhibition Using TMS-EEG](#)

Supervisor(s): Dr Manreena Kaur and Prof Paul Fitzgerald
Email: manreena.kaur@monash.edu

[The Heart Side of the Brain: Examining the effect of repetitive transcranial magnetic stimulation on the autonomic nervous system](#)

Supervisor(s): Dr Manreena Kaur and Prof Paul Fitzgerald
Email: manreena.kaur@monash.edu

[Depression and the oral contraceptive pill – substudy of types of pill used and depressive mood](#)

Supervisor(s): Prof Jayashri Kulkarni and Dr Natalie Thomas
Email: jayashri.kulkarni@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): Prof Jayashri Kulkarni and Dr Carolyn Breadon
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): Prof Jayashri Kulkarni and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu

[Study of premenstrual dysphoric disorder \(PMDD\) in women with borderline personality disorder \(BPD\)](#)

Supervisor(s): Prof Jayashri Kulkarni and 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): Prof Jayashri Kulkarni and Dr Carolyn Breadon
Email: jayashri.kulkarni@monash.edu

[Characterisation of perimenopausal anxiety in women](#)

Supervisor(s): Prof Jayashri Kulkarni and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu

[Comparing what clinical factors drive occupational violence and aggression and its consequences across three public hospitals](#)

Supervisor(s): Dr Stuart Lee and Dr Michelle Ananda-Rajan
Email: Stuart.lee@monash.edu

[Assessing the reliability and validity of a new measure of functional independence for people with severe mental illness and factors that predict level of independence and rehabilitation progress](#)

Supervisor(s): Dr Stuart Lee, Mr Daniel Cartlidge and Mr Justin Rowe
Email: Stuart.lee@monash.edu

Department of Surgery



Evidence based research guides surgery at the Alfred

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](#).

www.med.monash.edu.au/surgery/alfred/

Projects Available:

[Management of gastro-oesophageal reflux in obese patients](#)

Supervisor(s): Prof Wendy Brown and Dr Paul Burton

Email: wendy.brown@monash.edu

[Patients' Expectations and Satisfaction following Bariatric Surgery – a pilot study exploring the feasibility of including patient reported outcome measures in a national bariatric surgery registry](#)

Supervisor(s): Prof Wendy Brown, A/Prof Andrew MacCormick and Prof Ian Caterson

Email: Wendy.Brown@monash.edu

[Resolution of hypertension with weight loss](#)

Supervisor(s): Prof Wendy Brown and Prof Michael Cowley

Email: Wendy.Brown@monash.edu

[Measuring the inflammatory response to bariatric surgery](#)

Supervisor(s): Dr Paul Burton, Prof Matt Watt and Prof Wendy Brown

Email: paul.burton@monash.edu

[Outcomes of gastro-oesophageal cancer in Victoria](#)

Supervisor(s): Dr Paul Burton, A/Prof Peter Nottle and Prof Wendy Brown

Email: paul.burton@monash.edu

[Obesity related systemic inflammation as a driver of Non-alcoholic fatty liver disease](#)

Supervisor(s): Dr Paul Burton, Prof Matt Watt and Prof Wendy Brown

Email: paul.burton@monash.edu

[Examining the inflammatory profile of adipose tissue in oesophageal cancer](#)

Supervisor(s): Dr Paul Burton, Prof Matt Watt and Prof Wendy Brown

Email: paul.burton@monash.edu

[Comparative Outcomes of sleeve gastrectomy and adjustable gastric banding](#)

Supervisor(s): Dr Paul Burton, Prof Wendy Brown and A/Prof Peter Nottle

Email: Paul.Burton@monash.edu

[Outcomes of major bariatric surgical procedures](#)

Supervisor(s): Dr Paul Burton and A/Prof Peter Nottle

Email: wendy.brown@monash.edu

[Reviewing the impact of The Alfred international trauma training programs](#)

Supervisor(s): Prof Mark Fitzgerald and Mr Joseph Mathews

Email: m.fitzgerald@alfred.org.au

[Intravenous Access for Traumatic Shock](#)

Supervisor(s): Prof Mark Fitzgerald and Dr Peter Finnegan

Email: m.fitzgerald@alfred.org.au

[Monash University Endocrine Surgery Unit](#)

Supervisor(s): Dr James Lee, Prof Jonathan Serpell, Mr Simon Grodski and Ms Meei Yeung

Email: James.Lee@monash.edu

[Development of specific trauma triage guidelines for elderly patients](#)

Supervisor(s): Dr Joseph Mathew, Prof Mark Fitzgerald and Prof Biswadev Mitra

Email: joseph.mathew@monash.edu

[Early prognostication of severe trauma brain injury based on sentinel signs and radiological severity](#)

Supervisor(s): Dr Joseph Mathew, Prof Biswadev Mitra and Prof Mark Fitzgerald

Email: joseph.mathew@monash.edu

Contact us

Central Clinical School

Monash University
Level 6, Alfred Centre
99 Commercial Road
Melbourne VIC 3004

Telephone: +61 3 9903 0368

Fax: +61 3 9903 0843

Email: hdr.ccs@monash.edu

Web:

www.med.monash.edu.au/cecs/education/bmedsc-honours.html

Research project database:

studentresearchprojects.med.monash.edu.au/

How to find us

