



MONASH
University

MONASH
MEDICINE,
NURSING AND
HEALTH SCIENCES

BACHELOR OF MEDICAL SCIENCE (HONOURS) PROJECTS 2019

CENTRAL CLINICAL SCHOOL



A partnership between:



AlfredHealth

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:

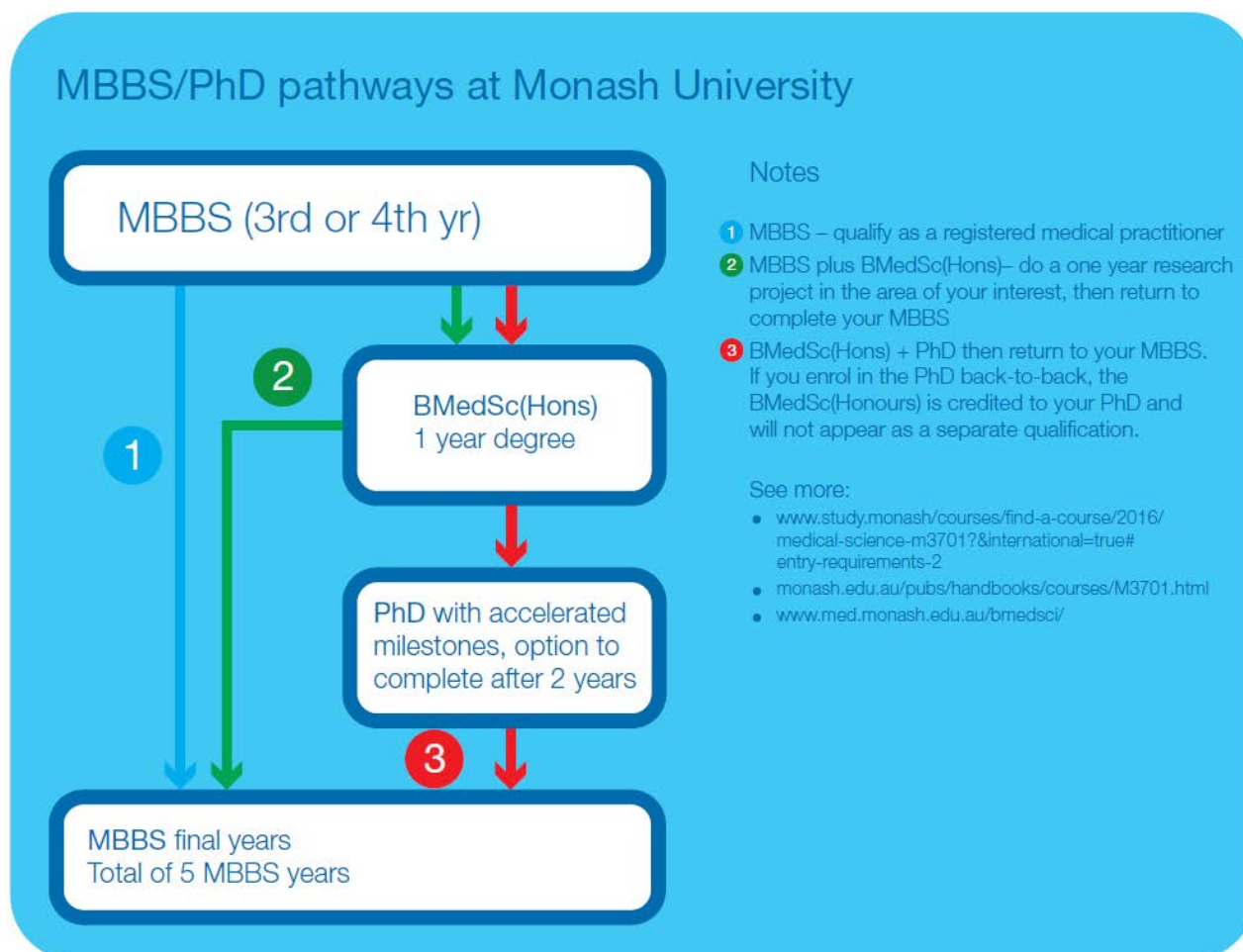
E: ccs.honours@monash.edu

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-honours
- www.monash.edu/study/fees-scholarships/scholarships/find-a-scholarship/amrep-honours-scholarship-5596

Medical education/PhD pathways at the Central Clinical School



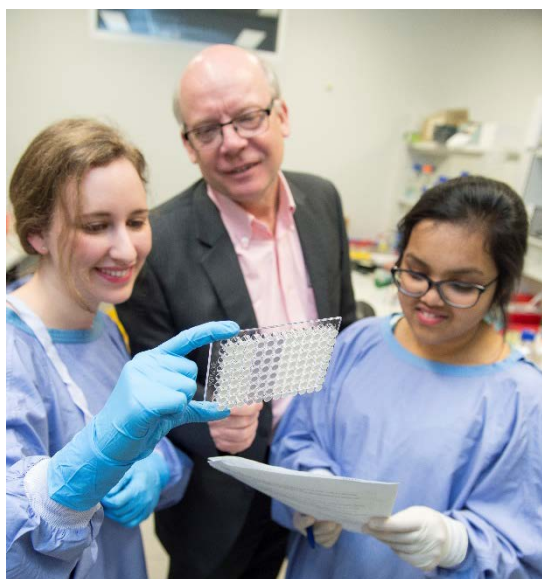
Notes

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>

Australian Centre for Blood Diseases



Prof Robert Medcalf in the lab with honours students

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

Projects Available:

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

Supervisor(s): Professor 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): Professor Andrew Perkins and Dr Kevin Gillinder

Email: Andrew.Perkins@monash.edu

[Reprogramming 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

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

Supervisor(s): Assoc Professor Christoph Hagemeyer and Dr Be'eri Niego

Email: Christoph.Hagemeyer@monash.edu

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

Supervisor(s): Assoc Professor 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): Assoc Professor Christoph Hagemeyer and Dr Ting-Yi Wang

Email: Christoph.Hagemeyer@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 haematopoietic 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

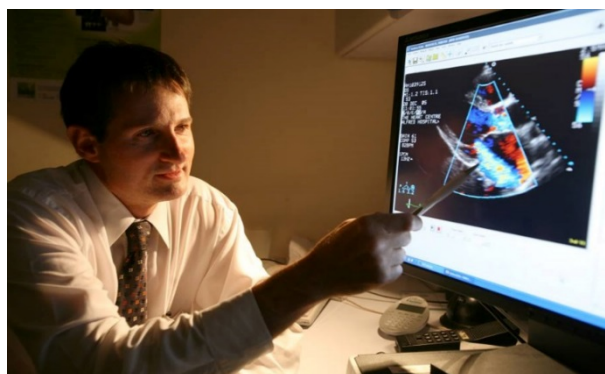
[t-PA effects on the blood-brain barrier in a mouse model of ischaemic stroke; evaluation of new drug delivery system](#)

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/>

Projects Available:

Inhibition of the NLRP3-inflammasome as a novel strategy to limit diabetic cardiomyopathy.

Supervisor(s): Dr Judy De Haan-Klein and Prof Rebecca Ritchie

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 Geoff Head, Dr Arpeeta Sharma

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 Prof Rebecca Ritchie

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

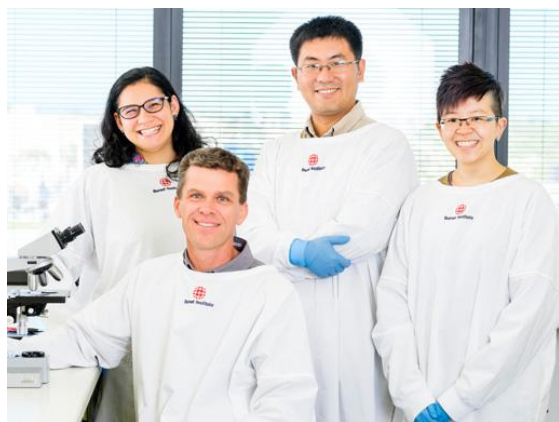
Email: Peter.Meikle@monash.edu

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



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:

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



Dr Zhong-Lin Chai in the lab

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 Deliyanti

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 Deliyanti

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

Department of Gastroenterology



Dr Jane Muir and Dr Marina Iacovou

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



Immunology department volunteers at 2018 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.

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 Margaret Hibbs

Email: Margaret.Hibbs@monash.edu

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

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



Department of Infectious Diseases staff and students

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 French

Email: Orla.Morrissey@monash.edu

[Immune Function in Patients Undergoing Treatment for Myeloma](#)

Supervisor(s): Dr Orla Morrissey

Email: Orla.Morrissey@monash.edu

Department of Medicine



2018 Epidermal Development group L-R: Dr Tariq Butt, Dr Smitha Georgy, Prof Stephen Jane, Ms Nishat Siddique, Dr Marina Carpinelli, Ms Dijini Swaroop

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

Peninsula Clinical School



A/Prof Richard Beare (left) and Prof V Srikanth

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.

See more:

www.monash.edu/medicine/ccs/medicine-alfred/research/srikanth-group

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
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

[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

[Dupuytren's 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

Department of Neuroscience



Professor Terence O'Brien

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

Email: Helmut.Butzkueven@monash.edu

Plasma biomarkers for epileptogenesis and epileptic seizures

Supervisor(s): Mr Idrish Ali and Prof Terence O'Brien, Dr Pablo Casillas

Email: Idrish.Ali@monash.edu

PET imaging of neuroinflammation as biomarker of post-traumatic epilepsy

Supervisor(s): Mr Idrish Ali and Dr Lucy Vivash, Prof Terence O'Brien

Email: Idrish.Ali@monash.edu

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

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

Supervisor(s): Dr Kim Powell, Prof Terry O'Brien
Email: Kim.Powell@monash.edu

[Stargazin and AMPA receptor expression at cortical synapses in epileptic rats](#)

Supervisor(s): Dr Kim Powell, Dr Pablo Casillas
Email: Kim.Powell@monash.edu

[Is telomere length associated with cardiac dysfunction in chronic epilepsy](#)

Supervisor(s): Dr Kim Powell and Prof Terry O'Brien, Dr Anne McIntosh
Email: Kim.Powell@monash.edu

[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
Email: Lucy.Vivash@monash.edu

[Sodium selenate as a treatment for behavioural variant fronto-temporal dementia](#)

Supervisor(s): Dr Lucy Vivash and Dr Charles Malpas, Prof Terry O'Brien
Email: Lucy.Vivash@monash.edu

[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
Email: Marko.Fedi@monash.edu

[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
Email: Marko.Fedi@monash.edu

[Microglial activation and neurological disease.](#)

Supervisor(s): Dr Mastura Monif and Prof Helmut Butzkueven, Prof Terry O'Brien
Email: Mastura.Monif@monash.edu

[Monocytes in Multiple Sclerosis](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien, Prof Helmut Butzkueven
Email: Mastura.Monif@monash.edu

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

Supervisors: Dr Mastura Monif, Prof Terry O'Brien
Email: Mastura.Monif@monash.edu

[Activated microglia in human brain tumours a translational study.](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien, Prof David Williams (External)
Email: Mastura.Monif@monash.edu

[The role of microparticles in traumatic brain injury.](#)

Supervisor(s): Dr Mastura Monif and Prof Terry O'Brien
Email: Mastura.Monif@monash.edu

[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
Email: Nigel.Jones@monash.edu

[Neural oscillations and cognition](#)

Supervisor(s): Assoc Professor Nigel Jones
Email: Nigel.Jones@monash.edu

[NMDA receptors, neural oscillations and cognition](#)

Supervisor(s): Assoc Professor Nigel Jones
Email: Nigel.Jones@monash.edu

[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
Email: Nigel.Jones@monash.edu

[Blurred vision](#)

Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
Email: Owen.White@monash.edu

[Dynamic visual acuity in Parkinson's disease](#)

Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
Email: Owen.White@monash.edu

[Dynamic visual acuity and pupillometry](#)

Supervisor(s): Assoc Professor Owen White and Assoc Prof Joanne Fielding
Email: Owen.White@monash.edu

[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 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
Email: Terence.O'Brien@monash.edu

[Sodium Selenate as a Disease Modifying Treatment for Probable Behavioural Variant Front-temporal 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



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 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



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](#).

See more:

- www.monash.edu/medicine/ccs/surgery-alfred
- 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

Email: Paul.Burton@monash.edu

Outcomes of gastro-oesophageal cancer in Victoria

Supervisor(s): Dr Paul Burton

Email: Paul.Burton@monash.edu

Obesity related systemic inflammation as a driver of Non-alcoholic fatty liver disease

Supervisor(s): Dr Paul Burton

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

Email: Paul.Burton@monash.edu

Comparative outcomes of sleeve gastrectomy and adjustable gastric banding

Supervisor(s): Dr Paul Burton

Email: Paul.Burton@monash.edu

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

Email: Shiva.Akbarzadeh@monash.edu

Human derived feeder and serum for the xeno-free expansion of adult keratinocytes

Supervisor(s): Dr Shiva Akbarzadeh and Assoc

Prof Heather Cleland

Email: Shiva.Akbarzadeh@monash.edu

Intravenous access for traumatic shock

Supervisor: Prof Mark Fitzgerald

Email: Mark.fitzgerald@monash.edu

Reviewing the impact of The Alfred international trauma training programs

Supervisor: Prof Mark Fitzgerald

Email: Mark.fitzgerald@monash.edu

Contact us

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Monash University
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Research project database: <https://supervisorconnect.med.monash.edu/research-projects>



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How to find us

