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Honours and postgraduate study through Central Clinical School

Monash University’s Central Clinical School (CCS) undertakes translational research – developing insights from laboratory bench research for use in 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 Honours and postgraduate study with us will give you a wide range of opportunities to continue your studies and develop your career path into many areas of medical and clinical research.

How to use this index booklet

This index booklet lists the Honours/PhD projects on offer for 2016. For further information about a particular research project, see the project description in the online database at:

http://studentresearchprojects.med.monash.edu.au/

For further information regarding individual research projects, students should approach the nominated researcher associated with that project.

Projects are listed under the following headings:

- Australian Centre for Blood Diseases (ACBD)
- Baker IDI Heart and Diabetes Institute
- Cabrini-Monash Clinical School
- Department of Allergy, Immunology and Respiratory Medicine (AIRmed)
- Department of Immunology
- Department of Infectious Diseases
- Department of Medicine
- Department of Surgery/NTRI
- Melbourne Sexual Health Centre (MSHC)
- Monash Alfred Psychiatry research centre (MAPrc)

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.

Links below for further information, entry requirements and to download application forms:

Honours
Masters and PhD
Graduate Certificate
AMREP Scholarships
Honours PhD

For general information regarding Honours and postgraduate study at CCS:

Ms Laisa Tigarea
CCS Student Services Officer:
E: Laisa.Tigarea@monash.edu
T: 03 9903 0027

*Key to specify the streams applicable for each project

<table>
<thead>
<tr>
<th>BMedSc</th>
<th>Bachelor of Medical Science (Honours)</th>
<th>BBiomedSc</th>
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<td>PhD</td>
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Courses at the Central Clinical School

**INTAKE**

- Domestic and International Undergraduates
- Domestic and International Graduates

**CAREER PATHWAYS**

- Biomedical Science (Honours)
- Science (Honours)
- Biotechnology (Honours)
- Medical Science (Honours)

**Graduate Certificate**

(*Note honours not required*)

**Masters streams**

- M Bioethics
- M Biostatistics
- M BiomedSc

**PhD (Translational Research)**

Includes GCert course work 2 units (TRM6002+elective). *If PhD not completed a further 2 units can be taken to complete the GCert.*

**Exit points (Australia and international)**

**Medical research**
- Universities
- Research Institutes

**Industry sectors**
- Biotech (life sciences)
- Pharma
- Agribio
- Healthcare

**Technology & products**
- Plant & animal made pharmaceuticals
- Gene/cell therapy
- Bioinformatics
- Genomics/Genetics
- Biomanufacturing
- Medical devices
- Cell biology
- Nanotechnology
- Clinical research & Lab services
- Platform technologies
- Chemistry
- Stem cell research
- Drug delivery
- Tech transfer
- Drug discovery & development

**Key:**
- Grad Cert
- Masters
- PhD
- Honours

**Feeder streams**

**Domestic and International Undergraduates**

**Domestic and International Graduates**

**International Graduates**

Scientific mobility program

**Domestic graduates**

(Direct entry to PhD with H1)

**Government**
- CSIRO
- Policy development

Australia ■ Malaysia ■ South Africa ■ Italy ■ India  www.med.monash.edu/cecs/education
Department of Allergy, Immunology and Respiratory medicine (AIRmed)

The Department of Allergy, Immunology and Respiratory Medicine (AIRMed) has a comprehensive spectrum of expertise in advanced lung diseases including asthma, lung transplantation, cystic fibrosis, pulmonary hypertension, COPD and sleep disordered breathing, allergy and clinical immunology. The Department integrates clinical services with extensive human and experimental research programs, linking senior clinician scientists, bench scientists, allied health professionals, primary care physicians and the community. The clinical and academic base of AIRMed is located at the Alfred Hospital, with experimental and clinical research laboratories located both within the hospital and in the laboratories of related Departments within Central Clinical School.

*Key to specify the streams applicable for each project

| BMedSc – Bachelor of Medical Science (Honours) | BBiomedSc – Bachelor of Biomedical Science (Honours) |
| BBiotech – Bachelor of Biotechnology (Honours) | BSci – Bachelor of Science (Honours) |
| M – Masters | PhD – PhD |
Projects Available:

The molecular immunology of penicillin allergy
Supervisors: Dr Nicole Mifsud, Dr Patricia Illing, Prof Robyn O’Hehir and Prof Anthony Purcell
Email: Nicole.Mifsud@monash.edu
Key: BBiomedSc, BSci, BMedSc

The Clinical Utility of Biomarkers of Immune Function following Lung Transplantation
Supervisors: A/Prof Glen Westall and Prof Anton Peleg
Email: G.Westall@alfred.org.au
Key: BSci, BMedSc

Social Media in Lung Transplantation
Supervisors: A/Prof Glen Westall and Dr Miranda Paraskeva
Email: G.Westall@alfred.org.au
Key: BBioMedSc, BSci, BMedSc

Defining the role of B cells in chronic allograft dysfunction following lung transplantation
Supervisors: A/Prof Glen Westall and Prof Greg Snell
Email: G.Westall@alfred.org.au
Key: BBioMedSc, BSci, BMedSc
Australian Centre for Blood Diseases (ACBD)

The Australian Centre for Blood Diseases (ACBD) is a leading national and international blood diseases centre with recognised research, treatment, and educational programs for blood diseases.

The 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.

*Key to specify the streams applicable for each project

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<tr>
<td>M – Masters</td>
<td>M – Masters</td>
<td>PhD – PhD</td>
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</table>
Projects Available:

Investigating the Effects of Aberrant Expression of Prmt5 in haematopoiesis  
Supervisors: A/Prof David Curtis, Dr Emma Toulmin and Dr Stefan Sonderegger  
Email: David.Curtis@monash.edu  
Key: BBiomedSc, BSci, BMedSc, BBiotech

Targeting Protein arginine methyltransferase 5 (PRMT5) in Acute Myeloid Leukaemia  
Supervisors: A/Prof David Curtis, Dr Emma Toulmin and Dr Stefan Sonderegger  
Email: David.Curtis@monash.edu  
Key: BBiomedSc, BSci, BMedSc, BBiotech

Targeting the Immediate Early Gene Response to Sensitize Leukemic Cells to Chemotherapy  
Supervisors: A/Prof David Curtis and Dr Cedric Tremblay  
Email: David.Curtis@monash.edu  
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Characterisation of a Potentially Novel Molecular Marker of Early Epigenetic Treatment Response in Myeloid Malignancies  
Supervisors: Dr Anthony Dear and Dr Hong Bin Liu  
Email: anthony.dear@monash.edu  
Key: BBioMedSc, BSci, BMedSc

Reversible control of AML self-renewal and differentiation  
Supervisors: A/Prof Ross Dickins and Dr Margherita Ghisi  
Email: Ross.Dickins@monash.edu  
Key: BBiomedSc, BSci, BMedSc, PhD

The role of Ikaros in B-ALL tumour suppression and treatment resistance  
Supervisors: A/Prof Ross Dickins and Dr Margherita Ghisi  
Email: Ross.Dickins@monash.edu  
Key: BBiomedSc, BSci, BMedSc, PhD

Metalloproteases in thrombosis and Alzheimer's disease  
Supervisors: Dr Elizabeth Gardiner, A/Prof Robert Andrews, Dr Justin Hamilton and Dr Jane Arthur  
Email: Elizabeth.Gardiner@monash.edu  
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Metalloproteolysis of activation receptors from the platelet surface in disease  
Supervisors: Dr Elizabeth Gardiner, A/Prof Robert Andrews, Prof Huyen Tran and Dr Jane Arthur  
Email: Elizabeth.Gardiner@monash.edu  
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Blood Force  
Supervisors: Dr Elizabeth Gardiner, A/Prof Robert Andrews and Dr Jane Arthur  
Email: Elizabeth.Gardiner@monash.edu  
Key: PhD
Targeting cell survival pathways in acute myeloid leukemia (AML)
Supervisors: A/Prof Mark Guthridge and Dr Nhu-Y Nguyen
Email: Mark.Guthridge@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, PhD

New therapeutic approaches for targeting cancer metabolism to overcome therapeutic resistance
Supervisors: A/Prof Mark Guthridge and Dr Giovanni Monaco
Email: Mark.Guthridge@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, PhD

A new screening platform for the identification of new treatments and therapies for the treatment of acute myeloid leukemia (AML)
Supervisors: A/Prof Mark Guthridge, Dr Andrew Wei and Dr Donia Moujalled
Email: Mark.Guthridge@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, PhD

Understanding the role of Snai1 in hematopoiesis and leukemic transformation
Supervisors: A/Prof Jody Haigh and Dr Catherine Carmichael
Email: Jody.Haigh@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Characterizing the role of Zeb2 in B/T cell leukemia
Supervisors: A/Prof Jody Haigh and Dr Catherine Carmichael
Email: Jody.Haigh@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Use of iPS cell technologies to study leukemic transformation
Supervisors: A/Prof Jody Haigh and Dr Magdaline Costa
Email: Jody.Haigh@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Role of the transcriptional modulators Zeb2 and Snai1 in Cellular Reprogramming and lineage directed differentiation
Supervisors: A/Prof Jody Haigh and Dr Thao Nguyen
Email: Jody.Haigh@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Use of Rosa26-iPS mouse model to study molecular determinants of cellular reprogramming, memory and differentiation
Supervisors: A/Prof Jody Haigh and Dr Magdaline Costa
Email: Jody.Haigh@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Targeting the human platelet thrombin receptor, par4, as a novel anti-thrombotic therapy
Supervisors: Dr Justin Hamilton and A/Prof Robert Andrews
Email: Justin.Hamilton@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD
Developing isoform-specific pi3k inhibitors as novel anti-platelet agents
Supervisors: Dr Justin Hamilton and A/Prof Robert Andrews
Email: Justin.Hamilton@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, M, PhD

Cytokine signalling in myeloid leukaemia
Supervisors: Dr Anissa Jabbour and Dr Mark Guthridge
Email: Anissa.Jabbour@monash.edu
Key: BBiomedSc, BSci, BMedSc, PhD

Rho-kinase and LDL-receptor inhibition as a novel strategy to protect the blood-brain barrier during ischaemic stroke; an in vitro study
Supervisors: Prof Robert Medcalf and Dr Be’eri Niego
Email: Robert.Medcalf@monash.edu
Key: BBiomedSc, BSci, BMedSc, PhD

t-PA effects on the blood-brain barrier in a rat model of ischaemic stroke
Supervisors: Prof Robert Medcalf, Dr Be’eri Niego and A/Prof David Howells
Email: Robert.Medcalf@monash.edu
Key: BBiomedSc, BSci, BMedSc, PhD

Progranulin as a novel blood-brain barrier-protecting agent during ischaemic stroke; an in vitro study
Supervisors: Prof Robert Medcalf, Dr Be’eri Niego and Dr Katherine Jackman
Email: Robert.Medcalf@monash.edu
Key: BBiomedSc, BSci, BMedSc, PhD

Targeted inhibition of chaperones as therapy in myeloma
Supervisors: Prof Harshal Nandurkar and Dr Hang Quach
Email: harshal.nandurkar@monash.edu
Key: BBioMedSc, BSci, BMedSc

Development of a new endothelial targeted antithrombotic to preserve organ function after ischaemic injury
Supervisors: Prof Harshal Nandurkar, Prof Peter Cowan and Prof Karlheinz Peter
Email: harshal.nandurkar@monash.edu
Key: BBioMedSc, BSci, BMedSc, PhD

Role of purinergic nucleotides in thrombosis associated with antiphospholipid syndrome
Supervisors: Prof Harshal Nandurkar, Prof Peter Cowan and Prof Karlheinz Peter
Email: harshal.nandurkar@monash.edu
Key: BBioMedSc, BSci, BMedSc, M, PhD

Development of a novel microfluidic system for the monitoring of antiplatelet therapies and assessment of platelet dysfunction
Supervisors: Dr Warwick Nesbitt and Prof Harshal Nandurkar
Email: Warwick.Nesbitt@monash.edu
Key: BBiomedSc, BBiotech, BMedSc
Development of a novel shear micro-gradient system for the diagnosis of von Willebrands Disease
Supervisors: Dr Warwick Nesbitt and Prof Harshal Nandurkar
Email: Warwick.Nesbitt@monash.edu
Key: BBiomedSc, BBiotech, BMedSc

Development of a novel microfluidic system for the investigation of platelet membrane tether function under haemodynamic shear and elongation forces
Supervisors: Dr Warwick Nesbitt and Dr Justin Hamilton
Email: Warwick.Nesbitt@monash.edu
Key: BBiomedSc, BMedSc

Investigating the use of matrix metalloprotease inhibitors in preventing blood-brain barrier damage following traumatic brain injury
Supervisors: Dr Maithili Sashindranath and Prof Robert Medcalf
Email: Maithili.Sashindranath@monash.edu
Key: BBiomedSc, BSci, BMedSc, PhD

Understanding the mechanism of tranexamic acid treatment for brain injury
Supervisors: Dr Maithili Sashindranath and Prof Robert Medcalf
Email: Maithili.Sashindranath@monash.edu
Key: BBiomedSc, BSci, BMedSc, BBiotech, PhD

Bromodomain inhibitors: novel therapeutic targets for multiple myeloma
Supervisors: Prof Andrew Spencer and Dr Tiffany Khong
Email: aspencer@netspace.net.au
Key: BBiomedSc, BMedSc, BSci, M, PhD

The role of the tumour microenvironment in conferring drug resistance in multiple myeloma
Supervisors: Prof Andrew Spencer and Dr Sridurga Mithraprabhu
Email: aspencer@netspace.net.au
Key: BBiomedSc, BMedSc, BSci, M, PhD

Targeting Ras/Raf/MAPK and PI3K/Akt pathways as potential therapeutic targets in multiple myeloma
Supervisors: Prof Andrew Spencer and Dr Tiffany Khong
Email: aspencer@netspace.net.au
Key: BBiomedSc, BMedSc, BSci, M, PhD

Investigating Ap2a2 & Gpsm2 in leukemia stem cells
Supervisors: Dr Stephen Ting and Dr Sara Rhost
Email: Stephen.Ting@monash.edu
Key: BBiomedSc, BSci, BMedSc

Linking endocytic Ap2a2 to haematopoietic stem cell metabolism
Supervisors: Dr Stephen Ting and Dr Sara Rhost
Email: Stephen.Ting@monash.edu
Key: BBiomedSc, BSci, BMedSc
Developing humanized models of hematopoiesis and leukaemia
Supervisor: A/Prof Andrew Wei
Email: a.wei@alfred.org.au
Key: BBiomedSc, BSci, BMedSc, PhD
Baker IDI Heart and Diabetes Institute

Baker IDI Heart and Diabetes Institute is an independent, internationally-renowned medical research facility, with a history spanning more than 88 years. 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 comprehensive range of research undertaken to target these deadly diseases, combined with the flexibility and innovation to respond to changing health and community needs, is unique and sets Baker IDI apart from other health and research Institutes. The Institute’s main laboratory facilities are located on the Alfred Medical Research and Education Precinct.

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Projects Available:

**Role of the At2 receptor in diabetic atherosclerosis**
Supervisors: A/Prof Terri Allen and Dr Christine Kouli
Email: terri.allen@bakeridi.edu.au
Key: BMedSc, BBioMedSc, BSci, M, PhD

**IDOL-mediated regulation of lipid metabolism in skeletal muscle and the heart**
Supervisors: Dr Anna Calkin and Dr Brian Drew
Email: anna.calkin@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci

**A Novel Enzyme with Potential in Preventing Obesity induced Diabetes**
Supervisors: Dr Brian Drew and Dr Anna Calkin
Email: brian.drew@bakeridi.edu.au
Key: BBiomedSc, BSci, M, PhD

**A novel mechanism to promote mitochondrial health and prevent skeletal muscle insulin resistance and diabetes**
Supervisors: Dr Brian Drew and Dr Anna Calkin
Email: brian.drew@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci

**Recombinant agents for efficient and safe anticoagulation and thrombolysis**
Supervisor: Prof Christoph Hagemeyer
Email: Christoph.Hagemeyer@monash.edu
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

**Single-chain antibody-targeted nanoparticles for diagnosis of vascular diseases**
Supervisor: Prof Christoph Hagemeyer
Email: Christoph.Hagemeyer@monash.edu
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

**Targeted virus particles for genetic transfer of fusion proteins to inhibit atherosclerosis**
Supervisor: Prof Christoph Hagemeyer
Email: Christoph.Hagemeyer@monash.edu
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

**The role of intrarenal nerves in the diabetic and hypertensive kidney**
Supervisors: Prof Karin Jandeleit-Dahm and Dr Anna Watson
Email: Karin.Jandeleit-Dahm@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD

**The role of Nox5 in diabetic complications**
Supervisors: Prof Karin Jandeleit-Dahm and Dr Stephen Gray
Email: Karin.Jandeleit-Dahm@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD
Development of brown adipose tissue for treatment of obesity
Supervisors: Prof Bronwyn Kingwell and Dr Andrew Carey
Email: bronwyn.kingwell@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD

Eplerenone in the management of abdominal aortic aneurysm
Supervisors: Prof Bronwyn Kingwell and Dr Anna Ahimastos
Email: bronwyn.kingwell@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD

High-density lipoprotein (HDL) and cardiac metabolism
Supervisors: Prof Bronwyn Kingwell and Dr Andrew Siebel
Email: bronwyn.kingwell@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD

Peripheral artery disease, glucose metabolism and skeletal muscle blood flow
Supervisors: Prof Bronwyn Kingwell and Dr Julian Sacre
Email: bronwyn.kingwell@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, PhD

Plasmalogen Modulation: A New Treatment for Atherosclerotic Heart Disease
Supervisors: A/Prof Peter Meikle and Dr Judy de Haan
Email: peter.meikle@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

High Density Lipoprotein and Oxidized Lipids in the Prediction of Acute Coronary Syndromes
Supervisors: A/Prof Peter Meikle and Prof Bronwyn Kingwell
Email: peter.meikle@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

Plasma Lipid Profiling in Type 2 Diabetes and Coronary Artery Disease
Supervisor: A/Prof Peter Meikle
Email: peter.meikle@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSci, BBiotech, M, PhD

Annexin-A1 Mimetics: a Novel Therapeutic Approach for Targeting the Cardiac Complications of Diabetest
Supervisors: A/Prof Rebecca Ritchie and Dr Helena Qin
Email: rebecca.ritchie@bakeridi.edu.au
Key: BBioMedSc, BSci, M, PhD

Circumventing Impaired Nitric Oxide Function in the Cardiovascular Complications of Diabetes
Supervisors: A/Prof Rebecca Ritchie and Dr Helena Qin
Email: rebecca.ritchie@bakeridi.edu.au
Key: BBioMedSc, BSci, M, PhD
Therapeutic targeting of the cardiac hexosamine biosynthesis - ROS axis to protect the diabetic heart
Supervisors: A/Prof Rebecca Ritchie and Dr Miles deBlasio
Email: rebecca.ritchie@bakeridi.edu.au
Key: BBioMedSc, BSc, M, PhD

Interactions between RAGE and GLP-1 in diabetes and diabetic nephropathy
Supervisors: Dr Karly Sourris and Dr Melinda Coughlan
Email: karly.sourris@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSc, PhD

Anti-atherosclerotic properties of CTLA4
Supervisors: Prof Merlin Thomas, Dr Chris Tikellis and Dr Raelene Pickering
Email: merlin.thomas@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSc, PhD

Metabolic memory - the bitter legacy of high glucose levels
Supervisors: Prof Merlin Thomas, Dr Chris Tikellis and Dr Raelene Pickering
Email: merlin.thomas@bakeridi.edu.au
Key: BBiomedSc, BMedSc, BSc, PhD

Cardiovascular Atherosclerotic Inflammatory Disease
Supervisors: Prof Ban-Hock Toh and Professor Alexander Bobik
Email: Ban-Hock.Toh@monash.edu
Key: BBioMedSc, BSc, BMedSc, BBiotech
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.

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**Projects available:**

**Vaccines against malaria**  
Supervisors: Prof James Beeson and Dr Freya Fowkes  
Email: beeson@burnet.edu.au  
Key: BBiomedSc, BSci, M

**Elucidating the regulatory mechanisms controlling viral transcription within the CNS and the establishment of a HIV viral reservoir**  
Supervisors: A/Prof Melissa Churchill, Dr Lachlan Gray and Prof Paul Gorry  
Email: churchil@burnet.edu.au  
Key: BBioMedSc, BSc, BMedSc, PhD

**Development of a prophylactic hepatitis C virus vaccine**  
Supervisors: A/Prof Heidi Drummer, Dr Robert Center and Dr Andy Poumbourios  
Email: hdrummer@burnet.edu.au  
Key: BBiomedSc, BMedSc, BSci, BBiotech, PhD

**Host genetics and susceptibility to malaria during pregnancy**  
Supervisors: Dr Freya Fowkes and Prof James Beeson  
Email: fowkes@burnet.edu.au  
Key: BBiomedSc, BSc, M, PhD

**The impact of Nutrition, Malaria and STIs on pregnancy and infant outcomes**  
Supervisors: Dr Freya Fowkes and Prof James Beeson  
Email: fowkes@burnet.edu.au  
Key: BBiomedSc, BSc, M, PhD

**Determining the roles of Nuclear Factor-kB1 in Follicular Helper CD4+ T cells**  
Supervisors: Dr Raffi Gugasyan and Elisha de Valle  
Email: gugasyan@burnet.edu.au  
Key: BBioMedSc, BSc, BMedSc, PhD

**The inflammatory monocyte subset as a reservoir for HIV**  
Supervisors: A/Prof Anthony Jaworowski and Dr Anna Hearps  
Email: anthonyj@burnet.edu.au  
Key: BBiomedSc, BSc

**The role of monocytes in immunity to blood stage malaria parasites**  
Supervisors: A/Prof Anthony Jaworowski and Dr Anna Hearps  
Email: anthonyj@burnet.edu.au  
Key: BBiomedSc, BSc
Cabrini Monash Department of Medicine

The Cabrini clinical school is part of the undergraduate medical education program coordinated by Central Clinical School, Monash University. The Cabrini teaching program is coordinated by the Clinical Dean, Associate Professor Michele Levinson. Current research focuses on ICU for those aged over 80 years, Doctor –patient discourse analysis and End-of-life studies. Please visit the Cabrini Monash Department of Medicine website for publications and new studies: [http://www.med.monash.edu.au/cecs/education/umed/cabrini.html](http://www.med.monash.edu.au/cecs/education/umed/cabrini.html)

Projects available:

**Language around concepts of 'do not resuscitate'**
Supervisors: A/Prof Michele Levinson and Dr Amber Mills
Email: mlevinson@cabrini.com.au
Key: BSci, BMedSc, M

**Open Project Opportunity**
Supervisors: A/Prof Michele Levinson and Dr Amber Mills
Email: mlevinson@cabrini.com.au
Key: BSci, BMedSc, M

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<td>M</td>
<td>Masters</td>
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<td>PhD</td>
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Department of Immunology

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

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.

*Key to specify the streams applicable for each project

| BMedSc – Bachelor of Medical Science (Honours) | BBioMedSc – Bachelor of Biomedical Science (Honours) |
| BBiotech – Bachelor of Biotechnology (Honours) | BSci – Bachelor of Science (Honours) |
| M – Masters | PhD – PhD |
Projects available:

**Mining the mouse non-classical MHC for regulators of innate immunity**
Supervisors: Dr Dan Andrews and Ms Katharine Goodall
Email: Dan.andrews@monash.edu
Key: PhD

**Regulation of the immune response by non-classical MHC**
Supervisors: Dr Dan Andrews and Ms Katharine Goodall
Email: Dan.andrews@monash.edu
Key: BBiomedSc

**Examining pathogenic macrophages in chronic obstructive pulmonary disease (COPD)**
Supervisors: A/Prof Margaret Hibbs and Dr Evelyn Tsantikos
Email: Margaret.Hibbs@monash.edu
Key: BBioMedSc, BSci, BMedSc, PhD

**Examining the temporal development of disease comorbidities in models of chronic lung disease**
Supervisors: A/Prof Margaret Hibbs and Dr Evelyn Tsantikos
Email: Margaret.Hibbs@monash.edu
Key: BBioMedSc, BSci, BMedSc, PhD

**Immunotherapy of ovarian cancer**
Supervisors: Prof Magdalena Plebanski, Prof Michael Quinn, Prof Cordelia Selomulya and Prof Orla McNally
Email: Magdalena.Plebanski@monash.edu
Key: BBioMedSc, BSci, BMedSc, BBiotech, M, PhD

**Nanoparticles, neurotransmitters and diet that prevents asthma and allergic inflammation**
Supervisors: Prof Magdalena Plebanski and Prof Cordelia Selomulya
Email: Magdalena.Plebanski@monash.edu
Key: BBioMedSc, BSci, BMedSc, BBiotech, M, PhD

**Nanovaccines against malaria**
Supervisors: Prof Magdalena Plebanski and A/Prof Cordelia Selomulya
Email: Magdalena.Plebanski@monash.edu
Key: BSci, BmedSc, BBiotech, M, PhD

**New therapeutics against cancer, allergy and asthma using nanotechnology**
Supervisors: Prof Magdalena Plebanski, Dr Sue Xiang and Dr Andrew Stephens
Email: Magdalena.Plebanski@monash.edu
Key: BSci, BmedSc, BBiotech, M, PhD

**Non-specific effects of vaccines in the elderly**
Supervisors: Prof Magdalena Plebanski and A/Prof Katie Flanagan
Email: Magdalena.Plebanski@monash.edu
Key: BBioMedSc, BSci, BMedSc, BBiotech, M, PhD
Infection and immunity
Supervisors: Prof Jamie Rossjohn, Dr Hugh Reid, Mr Julian Vivian, Dr Jerome Le Nours, Dr Stephanie Gras and Dr Richard Berry
Email: Jamie.Rossjohn@monash.edu
Key: BMedSc

Does a salty diet influence retinal disease via the adaptive immune system?
Supervisors: Prof Jennifer Wilkinson-Berka and Dr Devy Deliaynti
Email: jennifer.wilkinson-berka@monash.edu
Key: BBioMedSc, BSci, BMedSc, BBiotech, M, PhD

The contribution of NOX5, NADPH oxidase 5, to vision loss in animal models of diabetic retinopathy
Supervisors: Prof Jennifer Wilkinson-Berka and Dr Devy Deliaynti
Email: jennifer.wilkinson-berka@monash.edu
Key: BBioMedSc, BSci, BMedSc, BBiotech

How does tetrascapan CD53 regulate lymphocytes on patrol?
Supervisors: A/Prof Mark Wright and A/Prof Michael Hickey
Email: Mark.Wright@monash.edu
Key: BBioMedSc, BSci, BBiotech, M, PhD

Tetraspanins CD37 and CD82: The Yin and Yang of Dendritic cell biology
Supervisors: A/Prof Mark Wright and Dr Janet Wee
Email: Mark.Wright@monash.edu
Key: BBioMedSc, BSci, M

A superagonist antibody to human IL-21 in cancer immunotherapy
Supervisors: Dr Di Yu and Mr Yew Ann Leong
Email: di.yu@monash.edu
Key: BMedSc, BSci, PhD

Identification of immunological and genetic defects in patients with a primary antibody deficiency
Supervisors: A/Prof Menno van Zelm, Prof Robyn O’Hehir and Emeritus Prof Jennifer Rolland
Email: menno.vanzelm@monash.edu
Key: BBioMedSc, BSci
Department of Infectious Diseases

The Department of Infectious Diseases, Central Clinical School, and Alfred Health, is a premier center for clinical and biomedical research and education, offering undergraduate and postgraduate study programs.

The Department 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. The Department integrates clinical services with clinical and basic science research.

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<table>
<thead>
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</tr>
<tr>
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<td>PhD – PhD</td>
</tr>
</tbody>
</table>
Projects available:

**National cross sectional study of women living with HIV in Australia**  
Supervisor: A/Prof Michelle Giles  
Email: m.giles@alfred.org.au  
Key: BMedSc

**Predicting Chronic Kidney Disease in HIV Positive Patients**  
Supervisors: Prof Jennifer Hoy and Dr Janine Trevillyan  
Email: jennifer.hoy@monash.edu  
Key: BMedSc

**Clinical Utility of Bronchoalveolar Lavage (BAL) and Blood Aspergillus Galactomannan and PCR for Guiding Antifungal Therapy in Lung Transplant Recipients**  
Supervisors: Dr C Orla Morrissey, Prof Anton Peleg, A/Prof Glen Westall and Dr Harini de Silva  
Email: o.morrissey@alfred.org.au  
Key: BMedSc

**Determining the Impact of Host Immune Responses, and Aspergillus Genotypes on Patients Post-Lung Transplantation: A Roadmap to Developing Improved Antifungal Strategies**  
Supervisors: Dr C Orla Morrissey, Prof Anton Peleg, Prof Greg Snell, A/Prof Andy Fisher  
Email: o.morrissey@alfred.org.au  
Key: PhD

**Elucidating Immune Function in Haematology Patients undergoing Chemotherapy: Novel Methods for Developing Improved Antifungal Strategies**  
Supervisors: Dr C Orla Morrissey, Prof Anton Peleg, Prof Andrew Spencer, Dr Harini de Silva  
Email: o.morrissey@alfred.org.au  
Key: PhD

**New Kid on the Block to Prevent or Treat Life-threatening Invasive Fungal Disease**  
Supervisors: Dr C Orla Morrissey and Prof Anton Peleg  
Email: o.morrissey@alfred.org.au  
Key: BMedSc

**The Impact of Infections on the Development of Chronic Rejection Post-Lung Transplantation**  
Supervisors: Dr C Orla Morrissey, Prof Anton Peleg, Prof Greg Snell, A/Prof Andy Fisher  
Email: o.morrissey@alfred.org.au  
Key: BMedSc

**Identification of Novel Bacterial Chemoattractants using the Zebrafish Model**  
Supervisors: Prof Anton Peleg and Prof Graham Lieschke  
Email: anton.peleg@monash.edu  
Key: PhD

**Tackling Medically Important Biofilm-related Infections**  
Supervisors: Prof Anton Peleg and Prof David McGiffen  
Email: anton.peleg@monash.edu  
Key: BBioMedSc, BSci, BMedSc, BBiotech, PhD
Department of Medicine

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.

*Key to specify the streams applicable for each project

<table>
<thead>
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<tr>
<td>PhD</td>
<td>PhD</td>
</tr>
</tbody>
</table>
Projects available:

**Determinants of diabetes after lung transplantation**
Supervisors: Prof Leon Bach, Dr Kathryn Hackman and Prof Greg Snell
Email: leon.bach@monash.edu
Key: BMedSc

**Expression profile of skin tumours with high risk of malignant conversion**
Supervisors: Dr Charbel Darido and Prof Stephen Jane
Email: charbel.darido@monash.edu
Key: BBioMedSc, BSc, BMedSc, BBiotech

**Investigating the molecular mechanisms in epidermal homeostasis and cancer**
Supervisors: Dr Charbel Darido and Prof Stephen Jane
Email: charbel.darido@monash.edu
Key: BBioMedSc, BSc, BMedSc, M, PhD

**Investigating the requirements of pro-inflammatory signaling in skin and head & neck SCC**
Supervisors: Dr Charbel Darido and Dr Smitha Georgy
Email: charbel.darido@monash.edu
Key: BBioMedSc, BSc, BMedSc, M, PhD

**Understanding the genetic and molecular mechanisms which regulate craniofacial development**
Supervisors: Dr Sebastian Dworkin and Prof Stephen Jane
Email: sebastian.dworkin@monash.edu
Key: BMedSc, BBioMedSc, BSci, PhD

**What signals direct neural crest cells to form the craniofacial skeleton?**
Supervisors: Dr Sebastian Dworkin and Dr Marina Carpinelli
Email: sebastian.dworkin@monash.edu
Key: BMedSc, BBioMedSc, BSci, M, PhD

**Therapeutic targeting of Grhl3 dependent pathways in Head and Neck SCC**
Supervisors: Dr Smitha Georgy, Dr Charbel Darido and Professor Stephen Jane
Email: smitha.georgy@monash.edu
Key: BBioMedSc, BSc, BMedSc

**Augmented eXperience Modules (AXM) Usage Patterns and Acceptability for 3rd Year Medical Students**
Supervisors: A/Prof Rob Selzer and Ms Fiona Foley
Email: rob.selzer@monash.edu
Key: BMedSc

**Haemodynamic instability during renal replacement therapy - clinical and modelling analyses**
Supervisors: Prof Rowan Walker and Dr Scott Wilson
Email: r.walker@alfred.org.au
Key: BMedSc, BBioMedSc, BBiotech, M
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.

*Key to specify the streams applicable for each project

<table>
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<td>BSci</td>
<td>Bachelor of Science (Honours)</td>
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<td>M</td>
<td>Masters</td>
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<td>PhD</td>
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</tbody>
</table>
Projects available:

Detection of Mycoplasma genitalium (MG) in sexual contacts and implications for clinical management
Supervisors: A/Prof Catriona Bradshaw, Prof Christopher Fairley and A/Prof Marcus Chen
Email: CBradshaw@mshc.org.au
Key: BBioMedSc, BSc, BMedSc, BBiotech

Mycoplasma genitalium, determining the effectiveness of extended azithromycin for the treatment of this emerging sexually transmitted infection
Supervisors: A/Prof Catriona Bradshaw, Dr Tim Read, A/Prof Marcus Chen, Prof Christopher Fairley and Dr Melanie Bissessor
Email: cbradshaw@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, M

Partner treatment to reduce recurrence of bacterial vaginosis in women
Supervisors: A/Prof Catriona Bradshaw, Dr Tim Read, A/Prof Marcus Chen and Prof Christopher Fairley
Email: cbradshaw@mshc.org.au
Key: BMedSc

Analysis of the “Let Them Know partner” notification web site - how people exposed to STIs were contacted by their partners
Supervisors: A/Prof Marcus Chen, Prof Christopher Fairley and A/Prof Catriona Bradshaw
Email: MChen@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech

Bacterial load in urethral gonorrhoea and implications for gonorrhoea transmission
Supervisors: A/Prof Marcus Chen, Prof Christopher Fairley and A/Prof Catriona Bradshaw
Email: MChen@mshc.org.au
Key: BBioMedSc, BMedSc

Sexually transmitted infections in men who have sex with men
Supervisor: A/Prof Marcus Chen
Email: MChen@mshc.org.au
Key: PhD

Analysis of the accuracy of a self diagnosis web site for common sexually transmitted infections
Supervisors: Prof Christopher Fairley, A/Prof Marcus Chen and A/Prof Catriona Bradshaw
Email: CFairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech, M, PhD

Epidemiology of STI since 1917
Supervisors: Prof Christopher Fairley and Dr Eric Chow
Email: cfairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, M, PhD
Prospective case control study of the risk factors for anal and throat gonorrhoea
Supervisors: Prof Christopher Fairley, A/Prof Marcus Chen and A/Prof Catriona Bradshaw
Email: CFairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech, M

Research in Sexual Health Medicine
Supervisors: Prof Christopher Fairley, Dr Eric Chow and A/Prof Catriona Bradshaw
Email: cfairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, M

Symptoms and microbiological findings of women attending as partners of men diagnosed with urethritis at MSHC
Supervisors: Prof Christopher Fairley, A/Prof Marcus Chen and A/Prof Catriona Bradshaw
Email: cfairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech

Systematic review of the cost effectiveness of screening for gonorrhoea in very low prevalence populations
Supervisors: Prof Christopher Fairley, A/Prof Marcus Chen and A/Prof Catriona Bradshaw
Email: cfairley@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech

Clinical and microbiological features of epididymitis.
Supervisors: Dr Tim Read, A/Prof Marcus Chen, A/Prof Catriona Bradshaw and Prof Christopher Fairley
Email: Tread@mshc.org.au
Key: BMedSc

Secondary analysis of a trial dataset of reasons why gay men have HIV tests
Supervisors: Dr Tim Read, A/Prof Marcus Chen and Prof Christopher Fairley
Email: Tread@mshc.org.au
Key: BBioMedSc, BSci, BMedSc, BBiotech
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.

*Key to specify the streams applicable for each project

| BMedSc – Bachelor of Medical Science (Honours) | BBiomedSc – Bachelor of Biomedical Science (Honours) |
| BBiotech – Bachelor of Biotechnology (Honours)   | BSci – Bachelor of Science (Honours)               |
| M – Masters                                      | PhD – PhD                                        |
Projects available:

Does mindfulness decrease the emotional bias for memories? A study of emotional memory related brain activity in mindful individuals
Supervisors: Dr Neil Bailey and Dr Rebecca Seagrave
Email: neil.bailey@monash.edu
Key: BBioMedSc, BSc, BMedSc

Does regular mindfulness meditation enhance positivity and resilience? An EEG investigation
Supervisors: Dr Neil Bailey and Dr Rebecca Seagrave
Email: neil.bailey@monash.edu
Key: BSc, BMedSc

Learning to meditate: how long before regular meditation practice alters brain activity?
Supervisors: Dr Neil Bailey and Dr Rebecca Seagrave
Email: neil.bailey@monash.edu
Key: BSc, BMedSc

Investigation of the efficacy of a novel treatment for metabolic syndrome in patients with schizophrenia
Supervisors: Prof David Barton and Prof Gavin Lambert
Email: david.barton@bigpond.com
Key: BMedSc, M

Major Depression and the effect on cardiac function
Supervisors: Prof David Barton and Prof Gavin Lambert
Email: david.barton@bigpond.com
Key: BMedSc, M, PhD

Prevalence of psychiatric disorders in patients admitted to an acute brain injury unit
Supervisors: Prof David Barton and Dr Arup Dhar
Email: david.barton@bigpond.com
Key: BMedSc, M

Review of guidelines for the management of aggression in patients with an acute brain injury and the evaluation of their efficacy
Supervisors: Prof David Barton and Prof Gavin Lambert
Email: david.barton@bigpond.com
Key: BMedSc, M

Improving social cognition in schizophrenia with deep TMS
Supervisor: Prof Paul Fitzgerald
Email: Paul.Fitzgerald@monash.edu
Key: BMedSc, PhD

Improving symptoms of obsessive compulsive disorder with brain stimulation
Supervisor: Prof Paul Fitzgerald
Email: Paul.Fitzgerald@monash.edu
Key: BMedSc, PhD
Developing optimal methods for theta burst prefrontal brain stimulation
Supervisor: Prof Paul Fitzgerald
Email: Paul.Fitzgerald@monash.edu
Key: BMedSc, PhD

An investigation into the physiology and psychology of ultra-runners
Supervisors: Dr Bernadette Fitzgibbon and Dr Donna Urquhart
Email: bernadette.fitzgibbon@monash.edu
Key: BSci, BMedSc

Hypothalamic-Pituitary-Gonadal Axis Hormones and Psychopathology in Women with Schizophrenia
Supervisors: Dr Jasmin Grigg and Prof Jayashri Kulkarni
Email: jasmin.grigg@monash.edu
Key: BmedSc

How eye movements can inform us about cognition and schizophrenia symptoms
Supervisors: Dr Caroline Gurvich and Prof Susan Rossell
Email: caroline.gurvich@monash.edu
Key: BBioMedSc, BMedSc, BSci

Increasing the speed of thought: Using brain stimulation to enhance speed of information processing
Supervisors: Dr Kate Hoy and Dr Rebecca Seagrave
Email: Kate.hoy@monash.edu
Key: BSci, BMedSc

A comparison of the behavioural and biological effects of Transcranial Magnetic Stimulation and Theta Burst Stimulation on cognition
Supervisors: Dr Kate Hoy and Dr Neil Bailey
Email: Kate.hoy@monash.edu
Key: BSci, BMedSc

Lost in translation: assessing the applicability of motor cortical tDCS findings to the DLPFC
Supervisors: Dr Kate Hoy and Prof Paul Fitzgerald
Email: Kate.hoy@monash.edu
Key: PhD

Antipsychotic use and effect in women compared with men
Supervisors: Prof Jayashri Kulkarni, Dr Jasmin Grigg and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu
Key: PhD

Depression, Alcohol and Substance Use in Medical Students
Supervisors: Prof Jayashri Kulkarni and Dr Stewart Lee
Email: jayashri.kulkarni@monash.edu
Key: BMedSc
2016 Postgraduate and Honours Project Index Booklet

**Depression and the Oral Contraceptive Pill**
Supervisors: Prof Jayashri Kulkarni and Dr Roisin Worsley
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Interpersonal Violence in Women and Depression**
Supervisors: Prof Jayashri Kulkarni and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Investigating Emotion Regulation for Coping During Perimenopause**
Supervisors: Prof Jayashri Kulkarni and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu
Key: BmedSc

**Mood stabilisers in women during pregnancy: outcomes for mother and baby**
Supervisors: Prof Jayashri Kulkarni and Ms Heather Gilbert
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Neonatal abstinence syndrome at birth, and subsequent outcomes at 12 months of age, in infants whose mothers took antipsychotic medication during pregnancy**
Supervisors: Prof Jayashri Kulkarni and Ms Heather Gilbert
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Neonatal respiratory distress at birth, and subsequent outcomes at 12 months of age, in infants whose mothers who took antipsychotic medication during pregnancy**
Supervisors: Prof Jayashri Kulkarni and Ms Heather Gilbert
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Obesity and Early Trauma in Women**
Supervisors: Prof Jayashri Kulkarni, Dr Roisin Worsley and Ms Emmy Gavrilidis
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

**Safety of low dose quetiapine use in pregnant women**
Supervisors: Prof Jayashri Kulkarni and Ms Heather Gilbert
Email: jayashri.kulkarni@monash.edu
Key: BmedSc

**The causes, phenomenology and treatments of Borderline Personality Disorder**
Supervisors: Prof Jayashri Kulkarni and Dr Roisin Worsley
Email: jayashri.kulkarni@monash.edu
Key: PhD
The Effect of Gender and Hypothalamic-Pituitary-Gonadal (HPG) Axis Hormones on Dimensions of Positive Symptoms in Schizophrenia
Supervisors: Prof Jayashri Kulkarni and Dr Jasmin Grigg
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

The impact of gestational diabetes mellitus in women who took antipsychotic medication during pregnancy, on the outcomes for mother and baby up to 12 months postnatally
Supervisors: Prof Jayashri Kulkarni and Ms Heather Gilbert
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

The Relationship between Internalised Stigma, Symptom Severity and Response to Hormone Treatment in Patients with Schizophrenia
Supervisors: Prof Jayashri Kulkarni and Dr Jasmin Grigg
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

The Women’s Mental Health Clinic Evaluation
Supervisors: Prof Jayashri Kulkarni and Dr Roisin Worsley
Email: jayashri.kulkarni@monash.edu
Key: BMedSc

Self management workbook to prevent psychological distress during haemopoietic stem transplantation
Supervisors: Dr Stuart Lee and Ms Lynda Katona
Email: Stuart.lee@monash.edu
Key: BBioMedSc, BMedSc, BSci, M, PhD

Youth Recovery/Discovery College to Promote Social Connection and Self Management for Young People with Mental Illness?
Supervisors: Dr Stuart Lee and Ms Lara Nikitin
Email: Stuart.lee@monash.edu
Key: BBioMedSc, BMedSc, BSci, M, PhD

Vestibular function in healthy and mild traumatic brain injury rats
Supervisors: Dr Jerome Maller and Prof Ramesh Rajan
Email: jerome.maller@monash.edu
Key: PhD

Modulating parietal activity to influence emotional processing: an investigation into theta burst stimulation
Supervisors: Dr Rebecca Seagrave and Dr Kate Hoy
Email: rebecca.segrave@monash.edu
Key: BMedSc, BBioMedSc, BSci
Is bigger better? The impact of electrode size on cognitive enhancement with tDCS
Supervisors: Dr Rebecca Seagrave and Dr Kate Hoy
Email: rebecca.segrave@monash.edu
Key: BMedSc, BBioMedSc, BSci

How reliable are the effects of tDCS? A study of intra-individual reliability
Supervisors: Dr Rebecca Seagrave and Dr Kate Hoy
Email: rebecca.segrave@monash.edu
Key: BMedSc, BBioMedSc, BSci

Investigating the physiological response to transcranial magnetic stimulation (TMS)
Supervisor: Dr Richard Thomson
Email: richard.thomson@monash.edu
Key: BmedSc

Optimising the dosage of Transcranial Magnetic Stimulation
Supervisors: Dr Richard Thomson and Prof Paul Fitzgerald
Email: richard.thomson@monash.edu
Key: BMedSc, BBioMedSc

Understanding the impact of childhood trauma on emotion regulation and bipolar/anxiety tendencies across genders
Supervisors: Dr Tamsyn Van Rheenen and Prof Jayashri Kulkarni
Email: tamsyn.van-rheenen@monash.edu
Key: BmedSc
Department of Surgery

The Department of Surgery, part of the CCS's Division of Clinical Sciences, is a premier centre for clinical and surgical research and education, contributing to Monash's MBBS 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.

*Key to specify the streams applicable for each project*

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<th>BBiomedSc – Bachelor of Biomedical Science (Honours)</th>
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<tr>
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<td>PhD – PhD</td>
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</table>
Projects available:

**Use of Human-derived Feeders and Nutrients for Cultured Epithelial Autograft**
Supervisors: Dr Shiva Akbarzadeh, Dr Heather Cleland and Dr Marisa Herson
Email: shiva.akbarzadeh@monash.edu
Key: BBioMedSc, BSci, BMedSc

**Computer Assisted Resuscitation Decision Support in Trauma**
Supervisors: Prof Mark Fitzgerald and Prof Stephen Bernard
Email: m.fitzgerald@alfred.org.au
Key: PhD

**Pre-hospital Notification and Structured Handover on Hospital Arrival: development and implementation in India**
Supervisors: Prof Mark Fitzgerald and Dr Joseph Mathew
Email: m.fitzgerald@alfred.org.au
Key: PhD

**Validation of a computer assisted decision support software system for resuscitation of trauma patients**
Supervisors: Prof Mark Fitzgerald and A/Prof Biswadev Mitra
Email: m.fitzgerald@alfred.org.au
Key: BMedSc

**Intra-Laryngeal Causes of Recurrent Laryngeal Nerve Palsy following Thyroidectomy**
Supervisor: Dr Jonathan Serpell
Email: jonathan.serpell@alfred.org.au
Key: BMedSc
Contact us

Central Clinical School

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

Telephone: +61 3 9903 0027
Fax: +61 3 9903 0843
Email: hdr.ccs@monash.edu
Web: www.med.monash.edu/cecs/education
Project database: http://studentresearchprojects.med.monash.edu.au/

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CCS Monash Google+ page
CCSMonash Pinterest
CCS News Blog
CCSMonash youtube
Facebook.com/Monash.University