

Hudson Institute of Medical Research



262
STAFF



170
STUDENTS



43
RESEARCH
GROUPS



280
RESEARCH
PUBLICATIONS

Hudson Institute is a leading Australian medical research institute recognised internationally for discovery science and translational research into inflammation, cancer, women's and newborn health, and hormones and health.

We are leading developments in cell therapies, paediatric cancer and the human microbiome. Our worldwide scientific and medical collaborations provide a foundation for transformative healthcare programs across the globe.

Our 430 scientists, clinicians and graduate students come from around the world to pursue one mission – to make medical research discoveries that save and change lives. Located in the Monash Health Translation Precinct, our scientists work alongside clinical partners and industry colleagues and use advanced technology platforms to inform their research.

Our students

We nurture and inspire the next generation of scientists and clinicians by educating and training more than 170 students through our academic affiliation with Monash University.



63
POSTGRADUATE
AND HONOURS
STUDENTS
COMPLETED



170
STUDENTS
129 PHD
10 MASTERS
31 HONOURS

2023/2024

Student research

Honours and postgraduate students at Hudson Institute are trained by Australia's leading researchers.

Our students

- Are exposed to a unique collaborative environment involving leading researchers, clinicians and industry partners
- Undertake an extensive training program
- Develop life-long technical, communication and presentation skills
- Have access to world-class research facilities
- Obtain a degree from Monash University – in top 50 globally
- Attend national and international conferences
- Win prestigious prizes and awards
- Participate in an active and supportive social club, Hudson Institute Student Society (HISS).

How to enrol

All the information you need to enrol is on our website.

w: hudson.org.au/students/courses-available

Contact supervisors any time

Students are encouraged to contact and visit supervisors in their laboratories to discuss projects. Simply email the supervisor to arrange a time.

STEP 1: Find a project that interests you in our 2025 Student Research Projects.

w: hudson.org.au/students/student-projects/



STEP 2: Email the supervisor to indicate your interest and arrange a time to visit.

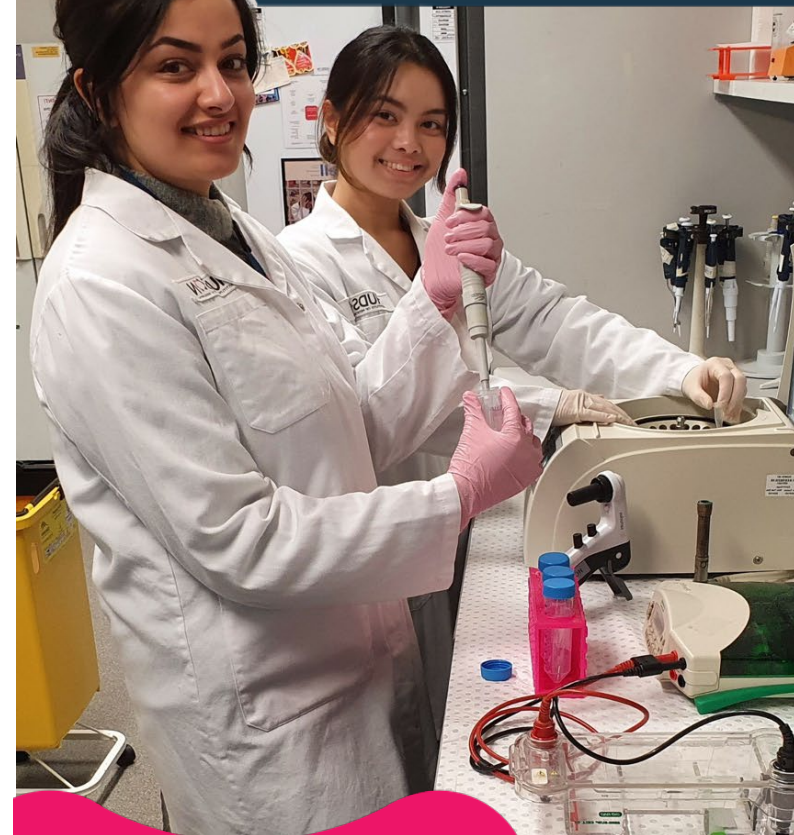
Connect with us

- hudson.org.au
- HUDSONResearchAu
- Hudson_Research
- Hudson_Research
- Hudson Institute of Medical Research

Contact us

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HUDSON
INSTITUTE OF MEDICAL RESEARCH



Centre for Endocrinology and Metabolism

Endocrinology
Endocrine Hypertension
Endocrine Cancer
Metabolic Bone Disorders
Sex Development

2025

Our supervisors



Associate Professor Frances Milat

Research Group Head: Metabolic Bone Research
e: fran.milat@hudson.org.au

How can we prevent osteoporosis and fractures in young adults with chronic diseases?



Professor Vincent Harley

Research Group Head: Sex Development
e: vincent.harley@hudson.org.au

Which genes act downstream from the male-specific gene, SRY, to cause gonadal development?



Associate Professor Simon Chu

Research Group Head: Hormone Cancer Therapeutics
e: simon.chu@hudson.org.au

How can we improve diagnosis and treatment of endocrine cancers?



Associate Professor Jun Yang

Research Group Head: Endocrine Hypertension
e: jun.yang@hudson.org.au

How can we improve the diagnosis and treatment of primary aldosteronism, the most common endocrine cause of hypertension?



Professor Robert McLachlan AM

Research Group Head: Clinical Andrology
e: rob.mclachlan@hudson.org.au

How is sperm production regulated and why does it fail in infertility?



Professor Peter Fuller AM

Centre Head
Research Group Head: Steroid Receptor Biology
e: peter.fuller@hudson.org.au

How does the mineralocorticoid receptor act in classical and non-classical tissues?

Our research

Endocrinology

- Hypertension
- Heart disease
- Steroid hormone actions

Cancer

- Ovarian cancer
- Thyroid cancer

Bone disease

- Osteoporosis
- Spina bifida
- Thalassemias

Development

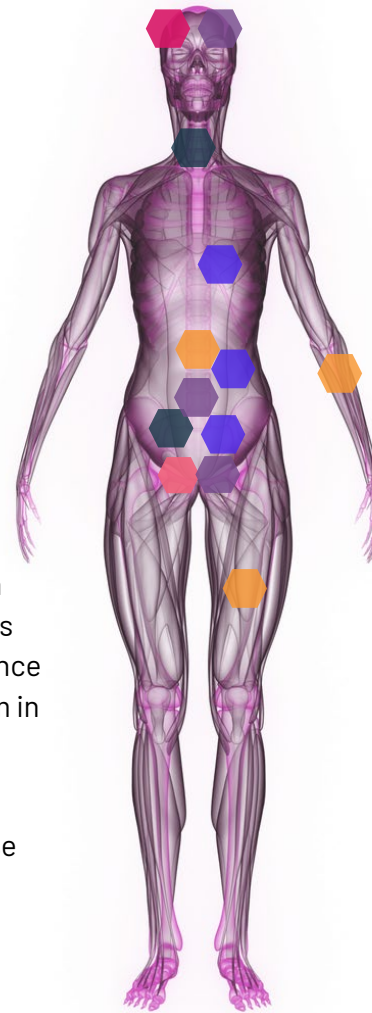
- Sex determination
- Intersex conditions
- Gender incongruence
- Sexual dimorphism in disease

Neurology

- Parkinson's disease

Men's health

- Sperm production
- Infertility
- Testosterone actions



For more information, see our 2025 Student Research Projects page:

w: hudson.org.au/students/student-projects

Student projects are also listed on each supervisor's profile page and Research Group pages on the website:

w: hudson.org.au

Research Group Heads and student projects can also be searched in the Monash University Faculty of Medicine, Nursing and Health Sciences Supervisor Connect database:
w: monash.edu/medicine/research/supervisorconnect

What we do

Basic and translational research. We take laboratory discoveries to patients for real-world impact. This is through the co-location of researchers with clinicians, state-of-the-art technologies and a clinical trials centre.

The complex endocrine system impacts all aspects of health and disease. As the pre-eminent Australian centre for endocrinology research, our groups undertake **biomedical and clinical research**.

Our goal is to improve understanding of the role of hormones in human biology and disease to tackle key health challenges facing Australian and global communities.

The Centre comprises six research groups conducting research into a wide range of human conditions. It is closely aligned with the Endocrinology Unit at Monash Health where a series of specialist clinics provide the opportunity to explore key research questions including the molecular basis of thyroid cancer, hypertension resulting from adrenal tumours, and bone disorders. There are also many basic science laboratory projects offered by our research groups.

HUDSON
INSTITUTE OF MEDICAL RESEARCH

CENTRE FOR
ENDOCRINOLOGY
AND METABOLISM

hudson.org.au/research-centre/centre-for-endocrinology-and-metabolism/

Centre for Endocrinology & Metabolism

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