Hudson Institute at-a-glance

281 STAFF

176 STUDENTS

42 RESEARCH GROUPS

250 RESEARCH PUBLICATIONS

Hudson Institute is a leading Australian medical research institute recognised internationally for discovery science and translational research into inflammation, cancer, reproductive health, 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.

Hudson Institute is a founding member of the Monash Health Translation Precinct with partners Monash Health and Monash University. Our close ties with clinicians and industry give us the ability to translate our discoveries into new preventative approaches, therapies and devices for patients.

Students at-a-glance

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.

66 POSTGRADUATE AND HONOURS STUDENTS COMPLETED

176 STUDENTS 126 PHD 4 MASTERS 46 HONOURS

47 STUDENTS WITH MEDICAL TRAINING

Student figures, 2022

Student research

Honours and PhD 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
- Publish their research (41 student first-author publications in 2022)
- 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 labs any time to discuss projects. Simply email the supervisor to arrange a time.

STEP 1: Find a project in the 2024 Postgraduate and Honours Research Projects booklet that you are interested in.
w: hudson.org.au/students/student-projects

STEP 2: Once you have identified a project, email the supervisor: *"I am interested in your student project. Could I please arrange a time to visit you in your lab?"*

Connect with us

hudson.org.au
HUDSONResearchAu
@Hudson_Research
Hudson-research
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Contact us

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Clayton VIC 3168 Australia
t: + 61 3 8572 2700
e: info@hudson.org.au
w: hudson.org.au

HUDSON INSTITUTE OF MEDICAL RESEARCH

Centre for Endocrinology and Metabolism

Endocrinology
Endocrine Hypertension
Endocrine Cancer
Metabolic Bone Disorders
Sex Development

2024

Our supervisors

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?

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

What is the prevalence of primary aldosteronism in our community and how can we improve diagnosis?

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?

Our research

Endocrinology
- Hypertension
- Heart disease
- Steroid hormone actions

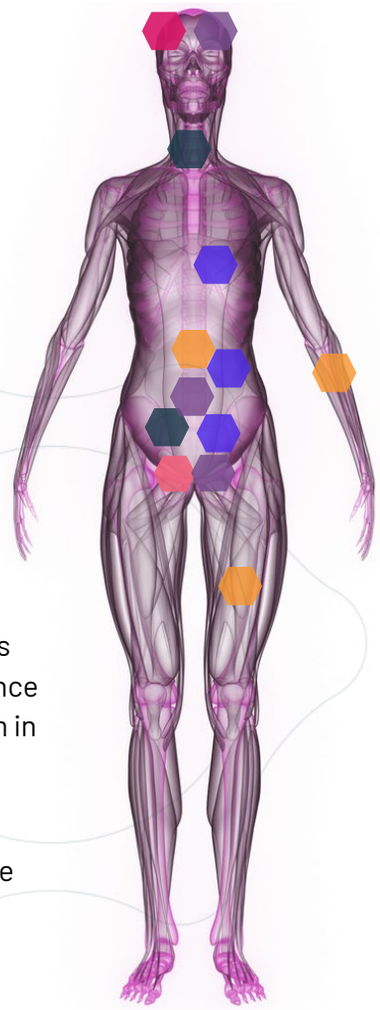
Cancer
- Ovarian cancer
- Thyroid cancer

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 about our student projects, see our 2024 Student Research Projects booklet:

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

The projects and Research Group Heads 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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