# **Hudson Institute at a glance**











285 158 **STAFF STUDENTS**  RESEARCH **GROUPS** 

285 RESEARCH **PUBLICATIONS** 

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

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

We are 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.

# Our students at a glance

We nurture and inspire the next generation of scientists and clinicians by educating and training more than 150 students through our academic affiliation with Monash University and other tertiary institutions.



60 **POSTGRADUATE** AND HONOURS **STUDENTS** COMPLETED



158 **STUDENTS** 113 PHD **6 MASTERS 38 HONOURS** 



**STUDENTS** WITH **MEDICAL TRAINING** 

## Student research

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

#### Our students:

- Attend national and international conferences
- Publish their research (there were 41 student first author publications in 2020)
- Collaborate with leading researchers
- Undertake an extensive training program
- Regularly win prestigious prizes and awards
- Have opportunities to network
- Develop technical, communication and presentation
- 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 any time to discuss projects. Simply email the supervisor to arrange a time.

STEP 1: Find a project you are interested in, either in the 2022 Student Research Projects booklet or the databases - Research Projects or Find A Researcher:

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

w: research.monash.edu/en/projects/

w: monash.edu/research/our-researchers/find/

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

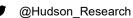
## Connect with us



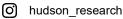
hudson.org.au



HUDSONResearchAu







# Contact us

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t: + 61 3 8572 2700

e: info@hudson.org.au

w: hudson.org.au



**Endocrine Cancer** 

Sex Development

Metabolic Bone Disorders

# **Our supervisors**



Professor Peter Fuller AM
Centre Head
Research Group Head: Steroid Receptor Biology
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
fran.milat@hudson.org.au

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



Professor Vincent Harley
Research Group Head: Sex Development vincent.harley@hudson.org.au

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



Dr Simon Chu
Research Group Head: Hormone Cancer Therapeutics simon.chu@hudson.org.au

How can we improve diagnosis and treatment of endocrine cancers?



Dr Jun Yang
Research Group Head: Endocrine Hypertension jun.yang@hudson.org.au

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



Associate Professor Colin Clyne Research Group Head: Cancer Drug Discovery colin.clyne@hudson.org.au

Which endocrine receptors and hormones act in breast tumours?



Professor Robert McLachlan AM
Research Group Head: Clinical Andrology
rob.mclachlan@hudson.org.au

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

# Centre for Endocrinology and Metabolism Our research

# **Endocrinology**

HypertensionHeart disease

Steroid hormone actions

### Cancer

- Breast cancer
- Ovarian cancer
- Thyroid cancer

### **Bone disease**

- Osteoporosis
- Spina bifida
- Thalassemias

## **Development**

- Sex determination
- Disorders of sex development
- Gender dysphoria

## **Neurology**

- · Parkinson's disease
- Male/female brain and behavioural differences

### Men's health

- Sperm production
- Infertility
- Testosterone actions

For more information about our student projects, see our 2022 Student Research Projects booklet:

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

## 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 preeminent 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 7 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 consequences of hormone deprivation in breast cancer, 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.



CENTRE FOR ENDOCRINOLOGY AND METABOLISM



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



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