Hudson Institute at a glance

296 STAFF

152 STUDENTS

50 RESEARCH GROUPS

283 RESEARCH PUBLICATIONS

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

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.

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.

58 POSTGRADUATE AND HONOURS STUDENTS COMPLETED IN 2019

152 STUDENTS 113 PHD 4 MASTERS 35 HONOURS

28 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 43 student first author publications in 2019)
- Collaborate with leading researchers
- Undertake an extensive training program
- Regularly win prestigious prizes and awards
- Have opportunities to network
- Develop technical, communication and presentation skills
- Participate in an active and supportive social club, Hudson Institute Student Society (HISS).

How to enrol

All the information needed 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 2021 Postgraduate and Honours Research Projects booklet or Research Projects database.
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 arrange a time to visit you in your laboratory please?"

Connect with us

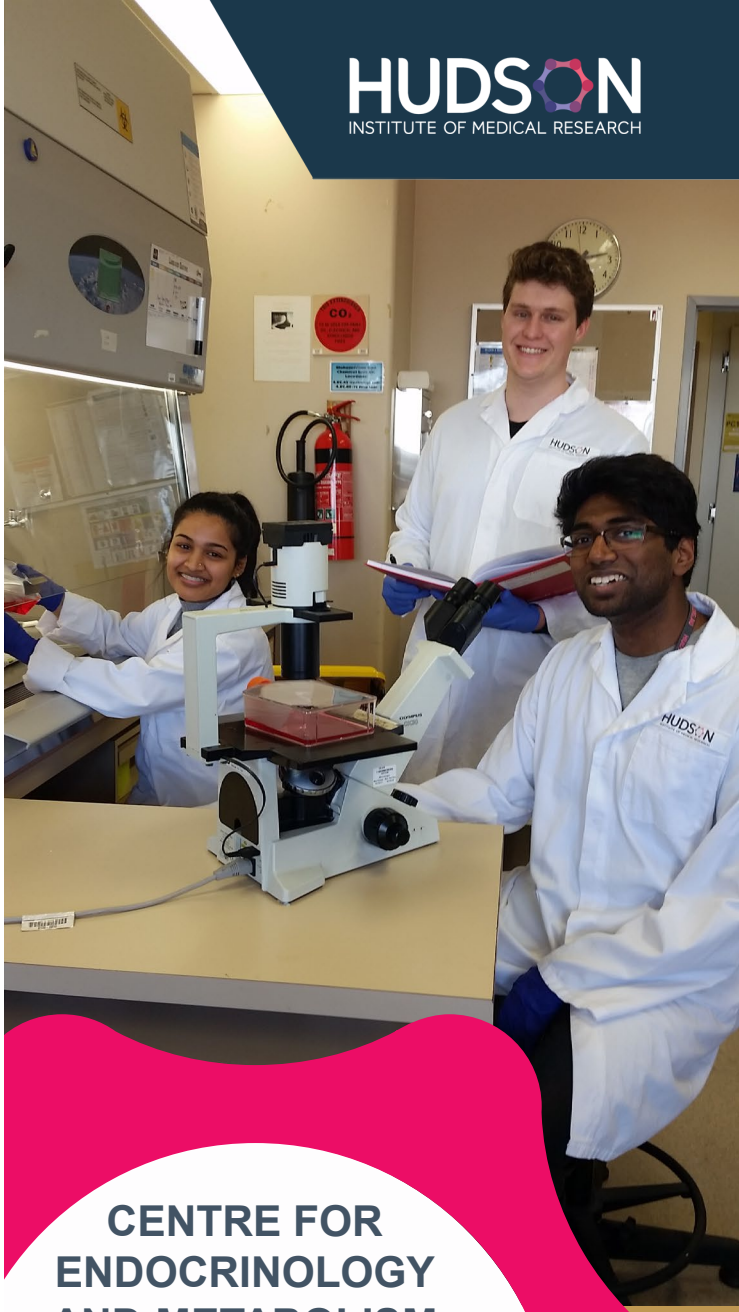
hudson.org.au
HUDSONResearchAu
@Hudson_Research
Hudson-research
hudson_research

Contact us

27-31 Wright Street
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

Cancer
Endocrinology and Metabolism
Genetic Diseases
Reproduction and Development

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?

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

Which genes act downstream from the male-specific gene, SRY, and what are their functions?

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

How can we improve the diagnosis and treatment of endocrine cancers?

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?

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

How can we improve early diagnosis and targeted treatment of primary aldosteronism?

Our research

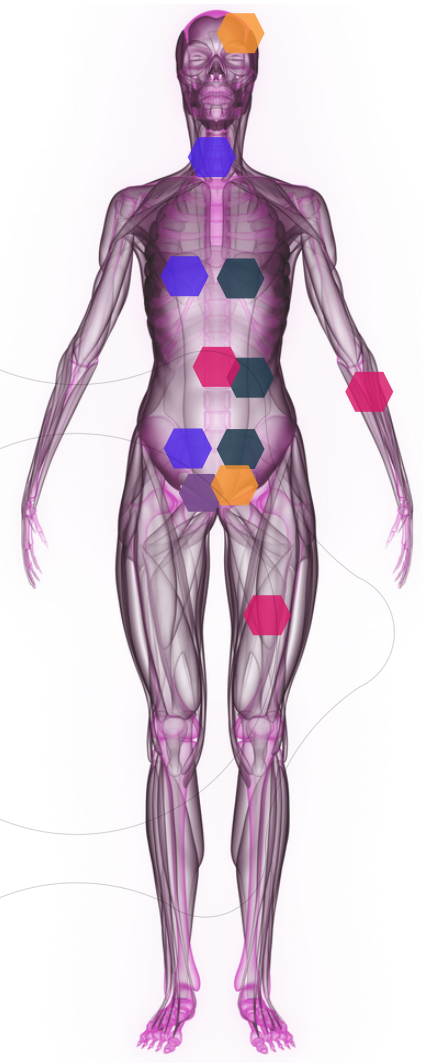
Endocrinology
- Hypertension
- Heart disease
- Steroid hormone actions

Men's health
- Sperm production
- Infertility
- Testosterone actions

Development
- Sex determination
- Gonadal development
- Disorders of sex development
- Gender dysphoria
- Parkinson's disease
- Male/female brain and behavioural differences

Cancer
- Breast cancer
- Ovarian cancer
- Thyroid cancer

Bone disease
- Osteoporosis
- Spina bifida
- Thalassemias



For more information about student projects, visit
hudson.org.au/students/student-projects/
and search by supervisor name or theme.

What we do

Basic and translational research.

We take laboratory discoveries to patients for real world impact. This occurs 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 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.

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

HUDSON INSTITUTE OF MEDICAL RESEARCH | CENTRE FOR ENDOCRINOLOGY AND METABOLISM

August 2020