

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



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 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 skills
- Participate in an active and supportive social club, Hudson Institute Student Society (HISS).

Students at the Centre for Reproductive Health are taught the physiology and systems biology of the reproductive system and use cutting-edge cellular models, human reproductive tissues and molecular and protein techniques to achieve their aims. Our Centre is a friendly environment in which students are encouraged to contribute in discussions at our regular formal and informal meetings.

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 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 please arrange a time to visit you in your lab?"*

Connect with us

- 🌐 hudson.org.au
- 📘 HUDSONResearchAu
- 🐦 @Hudson_Research
- 🌐 Hudson-research
- 📷 [hudson_research](https://www.instagram.com/hudson_research)

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HUDSON
INSTITUTE OF MEDICAL RESEARCH



Centre for Reproductive Health

Male Reproductive Health

Uterine Biology

Reproductive Developmental Biology

Molecular Biology of Reproduction

Centre for Reproductive Health | Our supervisors



Prof Kate Loveland
Centre Head
Research Group Head
Testis Development and Germ Cell Biology



Prof Mark Hedger
Deputy Centre Head
Research Group Head
Endocrinology and Immunophysiology



A/Prof Patrick Western
Research Group Head
Germ Cell Development and Epigenetics



A/Prof Robin Hobbs
Research Group Head
Germline Stem Cell Biology



Dr Minni Anko
Research Group Head
Functional RNAomics



Dr Tracey Edgell
Snr Research Scientist
Endometrial Infertility



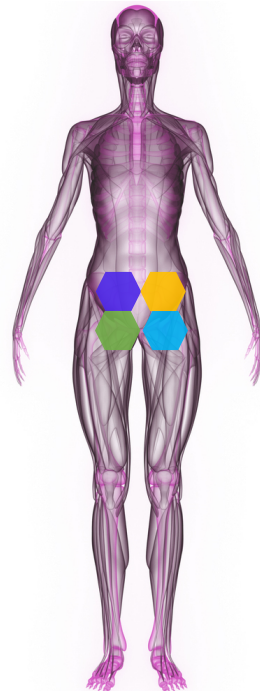
Our research

Male Reproductive Health

- Male factor infertility
- Male reproductive cancer
- Immunobiology in male reproductive health

Uterine Biology

- Disorders affecting female fertility
- Endometrial receptivity



Reproductive Developmental Biology

- Offspring health
- Environmental exposures

Molecular Biology of Reproduction

- Germline genetics and epigenetics
- RNA biology

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

Reproductive health is critical for the initiation of life and throughout life

The environment during conception and pregnancy impacts an individual's health and disease risk throughout child- and adulthood. Reproductive problems including infertility, endometriosis and reproductive cancers can impair physical, mental and financial wellbeing. Researchers within the Centre for Reproductive Health:

- are world-leaders in reproductive health research
- perform high-quality discovery research using the latest technologies
- translate their research into preventions, diagnostics and treatments
- publish in the world's top impact journals

Student first author publications

In 2020, CRH students were first authors on 6 out of 21 research publications including:

Whiley P, O'Donnell L, Moody SC, Handelsman DJ, Young JC, Richards EA, Almstrup K, Western PS, Loveland KL. Activin A determines steroid levels and composition in the fetal testis. *Endocrinology*. 2020 Jul 1;161(7):bqaa058.

Student prizes and awards

In 2020 our students won prestigious prizes and awards including:

Ellen Jarred, PhD Student: EMBL Short-Term Travel Award (10 available in Australia) to attend and present at the Four-Dimensional Genome Conference at EMBL, Heidelberg, 29 March – 1 April 2020. Cancelled due to Covid-19.

Ruby Oberin, PhD Student: Germ Cell Development & Epigenetics (Supervisor: A/Prof Patrick Western). ANZBMS Christopher and Margie Nordin Young Investigator Award (AUD\$1000). 30th ANZBMS Annual Scientific Meeting (Virtual), 12-14 October 2020.

Penny Whiley, PhD Student: DGA Lecture Prize in the experimental field for 'Activin A modulates the pace of germ cell development at the onset of spermatogenesis'. International Congress of Andrology (Digital), 5-9 December 2020.