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).

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 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

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Hudson-research
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HUDSON INSTITUTE OF MEDICAL RESEARCH

Centre for Reproductive Health

Male Reproductive Health
Reproductive Developmental Biology
Molecular Biology of Reproduction
Female Reproductive Health

2024

Centre for Reproductive Health | Our supervisors

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

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

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

Prof Mark Hedger
Research Group Head
Endocrinology and Immunophysiology

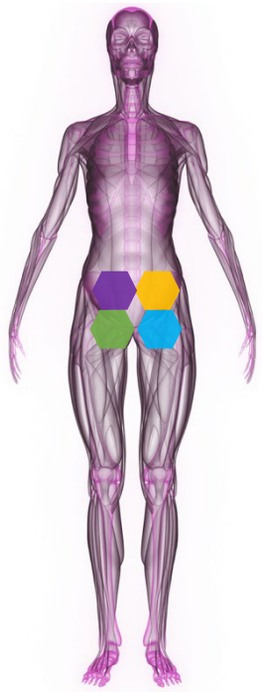
Our research

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

Reproductive Developmental Biology
- Offspring health
- Environmental exposures

For more information about our student projects, see our 2023 Student Research Projects booklet:

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



Female Reproductive Health
- Ovarian function and female fertility
- Epigenetics of ovarian follicle growth

Molecular Biology of Reproduction
- Germline genetics and epigenetics
- RNA biology

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 2022, CRH students were first author on 3 out of 23 research publications including:

Biniwale S, Wijayarathna R, Pleuger C, Bhushan S, Loveland, KL, Meinhardt A, Hedger MP (2022) Regulation of macrophage number and gene transcript levels by activin A and its binding protein, follistatin, in the testes of adult mice. J Reprod Immunol. 2022 Jun;151:103618.

Jarred EG, Qu Z, Tsai T, **Oberin R, Petautschnig, S,** Bildsoe H, Pederson S, Zhang Q-h, Stringer JM, Carroll J, Gardner DK, van den Buuse M, Sims, NA, Gibson WT, Adelson DL, **Western PS** (2022) Transient polycomb activity represses developmental genes in growing oocytes. Clinical Epigenetics. Dec 21;14(1):183.

Student prizes and awards

In 2022 our students won prestigious prizes and awards including:

Penny Whiley (Supervisor Prof Kate Loveland) - 2022 Anna Steinberger Trainee Research Excellence Award at the American Society for Andrology (ASA) 47th Annual Conference, 7-10 May 2022. USD$1000.

Ruby Oberin (Supervisor: A/Prof Patrick Western) – Winner of the EMBL Corporate Partnership Program Travel Award. Eur1000.

Ellen Jarred (Supervisor: A/Prof Patrick Western) – Winner of the ART Lab Solutions Gamete and Embryo Award $500 (SRB Conference, New Zealand, 2022)