

Hudson Institute at a glance



285
STAFF



158
STUDENTS



43
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, 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.



60
POSTGRADUATE
AND HONOURS
STUDENTS
COMPLETED



158
STUDENTS
113 PHD
6 MASTERS
38 HONOURS



31
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).

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](https://www.facebook.com/HUDSONResearchAu)
- [@Hudson_Research](https://twitter.com/Hudson_Research)
- [Hudson-research](https://www.linkedin.com/company/Hudson-research)
- [hudson_research](https://www.instagram.com/hudson_research)

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w: hudson.org.au



The Ritchie Centre

Women's Health

Fetal and Neonatal Health

Infant and Child Health

Cell Therapy and Regenerative Medicine

Infection, Inflammation and Immunity

The Ritchie Centre | Research Themes



Prof Caroline Gargett
Women's Health



Dr Rebecca Lim
Cell Therapy and
Regenerative Medicine



Prof Rosemary Horne
Infant and Child Health



A/Prof Graeme Polglase
Fetal and Neonatal Health:
Respiratory and
Cardiovascular



A/Prof Suzie Miller
Fetal and Neonatal Health:
Brain Injury and
Neurodevelopment



For more information about our student projects visit the **Ritchie Centre Website:**

<https://hudson.org.au/research-centre/the-ritchie-centre/>



Head, The Ritchie Centre
Prof Stuart Hooper



MONASH
University

Our research

Women's health

Endometriosis
Infertility
IVF
Pelvic organ prolapse
Pre-eclampsia
Premature ovarian failure

Infection, Inflammation and Immunity

Intrauterine Inflammation
Systemic lupus erythematosus
Pulmonary arterial hypertension

Baby and Children's Health

Birth Asphyxia
Bronchopulmonary dysplasia
Cerebral Palsy
Congenital diaphragmatic hernia
Down Syndrome
Epilepsy
Intrauterine Growth Restriction
Necrotising enterocolitis
Premature birth
Pulmonary hypertension
SIDS
Sleep disordered breathing



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 Ritchie Centre's mission to improve the health of women, infants and children through innovative research is achieved through its unique associations as the principal research Centre of the Monash University Department of Obstetrics and Gynaecology and the Department of Paediatrics, Monash Women's Services, Monash Newborn and Melbourne Children's Sleep Centre. It is also a major research partner of the Monash Children's Hospital.

Student first author publications

In 2020, our students were first authors on the following research publications

- Siriwardhana LS, Weichard A, Nixon GM, Davey MJ, Walter LM, Edwards BA, Horne RSC. **Role of ventilatory control instability in children with sleep-disordered breathing.** *Respirology*. 2020 Apr 2.
- Paul K, Darzi S, Werkmeister JA, Gargett CE, Mukherjee S. **Emerging Nano/Micro-Structured Degradable Polymeric Meshes for Pelvic Floor Reconstruction.** *Nanomaterials* (Basel). 2020 Jun 5;10(6):E1120.
- Penny TR, Pham Y, Sutherland AE, Mihelakis JG, Lee J, Jenkin G, Fahey MC, Miller SL, McDonald CA. **Multiple doses of umbilical cord blood cells improve long-term brain injury in the neonatal rat.** *Brain Res*. 2020 Jun 22:147001.

Student prizes and awards

In 2020, our students won prestigious prizes and awards, including

- **Amber Wang** was awarded \$1000 for being the highest achieving student in the 2020 BMedSc (Hons) cohort. Amber's research title was "Effect of Umbilical Cord Blood Cell Therapy on Grey Matter Vascular Injury in the Growth-Restricted Fetal Brain".
- **Roshan Selvaratnam (PhD student)** received the Stillbirth Centre for Research Excellence 2020 PhD top up scholarship (\$9,000). The top up scholarships are designed to support exceptional PhD candidates whose projects align with the CRE's priority areas and make a meaningful contribution to the CRE's program of work.
- **Indya Davies (PhD Student)** won best oral presentation at the The ASMR Victorian Student Research Symposium.
- **Ben Amberg (PhD student)** represented the Faculty of Medicine, Nursing and Health Sciences in the **Monash University 3MT (Three Minute Thesis) finals.**