

## 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).

## How to enrol

All the information you need to enrol is on our website.

**w:** [hudson.org.au/students/courses-available](https://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](https://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](https://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)

## Contact us

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## The Ritchie Centre

Women's Health  
Fetal and Neonatal Health  
Infant and Child Health  
Cell Therapy and Regenerative Medicine  
Infection, Inflammation and Immunity

**2024**

## The Ritchie Centre | Our supervisors



**Head, The Ritchie Centre**  
Prof Suzanne Miller



**Perinatal Transition**  
Prof Graeme Polglase



**Fetal and Neonatal Health**  
Prof Stuart Hooper



**Endometrial Stem Cell Biology**  
Prof Caroline Gargett



**Interventional Immunology in Early Life Diseases**  
Prof Claudia Nold  
Prof Marcel Nold



**Neonatal Brain Protection**  
A/Prof Flora Wong



**Amnion Cell Biology**  
A/Prof Rebecca Lim



**Lung Development**  
A/Prof Megan Wallace



**Epidemiology and Clinical Trials**  
Dr Miranda Davies-Tuck



**Perinatal Inflammation and Neurophysiology**  
Dr Robert Galinsky



**Translational Tissue Engineering**  
Dr Shayanti Mukherjee



**Perinatal Cardiovascular Physiology**  
Dr Beth Allison

## 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



For more information about our student projects visit the Ritchie Centre Website:  
<https://hudson.org.au/research-centre/the-ritchie-centre/>

## 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 and Monash Newborn. It is also a major research partner of the Monash Children's Hospital.

## Student first author publications

In 2022 our students were first authors on the following research publications:

- **Di Simone SK**, Rudloff I, Nold-Petry CA, Forster SC, Nold MF. Understanding respiratory microbiome-immune system interactions in health and disease. *Sci Transl Med.* 2023 Jan 11;15(678).
- **Pryor EJ**, Blank DA, Hooper SB, Crossley KJ, Badurdeen S, Pollock JA, Stainsby AV, Croton LCP, O'Connell DW, Hall CJ, Maksimenko A, Hausermann D, Davis PG, Kitchen MJ. Quantifying lung aeration in neonatal lambs at birth using lung ultrasound. *Front Pediatr.* 2022 Sep 28;10:990923.
- **Andrew MS**, Selvaratnam RJ, Davies-Tuck M, Howland K, Davey MA. The association between intrapartum interventions and immediate and ongoing breastfeeding outcomes: an Australian retrospective population-based cohort study. *Int Breastfeed J.* 2022 Jul 5;17(1):48.

## Student prizes and awards

In 2022, our students won prestigious prizes and awards, including:

- **Annie Langston-Cox** was awarded **The Mollie Holman Medal** which is one of Monash University's highest academic honours. Each year, a maximum of ten medals are awarded to doctoral students, normally one from each faculty, who have fulfilled their degree requirements and presented their faculty's best thesis of the year. Annie's PhD thesis is titled: **Pursuing a novel adjuvant therapy for preeclampsia.**
- **Molly McLaughlin** was awarded the **Henry Burger Honours Award for 2022.** The award recognises the outstanding Honours students at the Hudson Institute for 2022 based on academic merit. Molly's project was titled: **"Endometrial Mesenchymal Stem Cells as a Unique Cell Source for Treatment of Graft versus-Host Disease"**