

## Hudson Institute of Medical Research



**262**  
STAFF



**170**  
STUDENTS



**43**  
RESEARCH  
GROUPS



**280**  
RESEARCH  
PUBLICATIONS

Hudson Institute is a leading Australian medical research institute recognised internationally for discovery science and translational research into inflammation, cancer, and women's and newborn 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.

Our 430 scientists, clinicians and graduate students come from around the world to pursue one mission – to make medical research discoveries that save and change lives. Located in the Monash Medical Precinct, our scientists work alongside clinical partners and industry colleagues and use advanced technology platforms to inform their research.

### Our students

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.



**63**  
POSTGRADUATE  
AND HONOURS  
STUDENTS  
COMPLETED



**170**  
STUDENTS  
129 PHD  
10 MASTERS  
31 HONOURS

2023/2024

### Student research

Honours and postgraduate 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
- 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 our 2025 Student Research Projects that you are interested in here  
**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
- Hudson\_Research
- Hudson\_Research
- Hudson Institute of Medical Research

### Contact us

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**e:** [info@hudson.org.au](mailto:info@hudson.org.au)  
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**HUDSON**  
INSTITUTE OF MEDICAL RESEARCH

## The Ritchie Centre

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

**2025**

## The Ritchie Centre | Our supervisors



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



**Perinatal Transition**  
Prof Graeme Polglase



**Fetal and Neonatal Health**  
Prof Stuart Hooper AM



**Lung Development**  
A/Prof Megan Wallace



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



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



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



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



**Endometrial Stem Cell Biology**  
Prof Caroline Gargett



**Translational Tissue Engineering**  
Dr Shayanti Mukherjee



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



**Perinatal Inflammation and Neurophysiology**  
Dr Robert Galinsky



**Perinatal Cardiovascular Physiology**  
Dr Beth Allison



**Bioenergetics in Reproduction**  
Dr Stacey Ellery



**Cell Therapies and Inflammation**  
Dr Courtney McDonald

## Our research

### Women's health

Endometriosis / Gynaecological Disease  
Infertility  
Pelvic organ prolapse  
Pre-eclampsia  
Premature ovarian failure

### Infection, Inflammation and Immunity

Systemic lupus erythematosus  
Influenza  
COVID-19

### Newborn Health

Birth Asphyxia  
Bronchopulmonary dysplasia  
Cerebral Palsy  
Congenital diaphragmatic hernia  
Down Syndrome  
Epilepsy  
Fetal Growth Restriction  
Necrotising enterocolitis (NEC)  
Preterm birth  
Pulmonary hypertension  
Stillbirth



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

## What we do

Discovery 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 2023 our students were first authors on research publications, including:

- **Tindal K**, Filby CE, Gargett CE, Cousins F, Palmer KR, Vollenhoven B, Davies-Tuck M. Endometrial Origins of Stillbirth (EOS), a case-control study of menstrual fluid to understand and prevent preterm stillbirth and associated adverse pregnancy outcomes: study protocol. BMJ Open. 2023 Jul 11;13(7):e068919.
- **Kelly SB**, Tran NT, Polglase GR, Hunt RW, Nold MF, Nold-Petry CA, Olson DM, Chemtob S, Lodygensky GA, Robertson SA, Gunn AJ, Galinsky R. A systematic review of immune-based interventions for perinatal neuroprotection: closing the gap between animal studies and human trials. J Neuroinflammation. 2023 Oct 20;20(1):241
- **Oyang M**, Piscopo BR, Zahra V, Malhotra A, Sutherland AE, Sehgal A, Hooper SB, Miller SL, Polglase GR, Allison BJ. Cardiovascular responses to mild perinatal asphyxia in growth restricted preterm lambs. Am J Physiol Heart Circ Physiol. 2023 Sep 1.

## Student prizes and awards

In 2023, our students won prestigious prizes and awards, including:

- **Beth Piscopo** was awarded the **Society for Reproductive Investigation (SRI) Thomas McDonald Award** which acknowledges the **highest ranked abstract** by an in-training investigator within the field of fetal neuroscience. Beth's abstract was titled: **"Cerebrovascular Dysfunction and Mediation of Neurological Injury in Response to Perinatal Asphyxia in FGR Lambs."**
- **Abby Boppna** was awarded the **Lois Salamonsen Honours Award – for the highest achieving BBiomedSc Honours Student in the Hudson Institute**. Abby was supervised by Prof Claudia Nold & Dr Ina Rudloff.