

Hudson Institute of Medical Research



289
STAFF



153
STUDENTS



43
RESEARCH
GROUPS



264
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 442 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 150 students through our academic affiliation with Monash University.



39
POSTGRADUATE
AND HONOURS
STUDENTS
COMPLETED



153
STUDENTS
123 PHD
10 MASTERS
20 HONOURS

Figures from 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

Contact supervisors any time

Students are encouraged to contact and visit supervisors in their laboratories to discuss projects. Simply email the supervisor to arrange a time.

STEP 1: Find a project that interests you in our 2026 Student Research Projects – scan the QR code or visit www.hudson.org.au/students/student-projects/

STEP 2: Email the supervisor to indicate your interest and arrange a time to visit.



Connect with us

Website – www.hudson.org.au

LinkedIn – [@Hudson Institute of Medical Research](https://www.linkedin.com/company/Hudson%20Institute%20of%20Medical%20Research)

Bluesky – [@hudsonresearch.bsky.social](https://bsky.app/profile/hudsonresearch.bsky.social)

Instagram – [@Hudson_Research](https://www.instagram.com/Hudson_Research)

Facebook – [@HUDSONResearchAu](https://www.facebook.com/HUDSONResearchAu)

Contact us

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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

2026

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
A/Prof Shayanti Mukherjee



Epidemiology and Clinical Trials
A/Prof 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 2024 our students were first authors on research publications, including:

- Zhou L, McDonald CA, Yawno T, Razak A, Connelly K, Novak I, Miller SL, Jenkin G, Malhotra A. Feasibility and safety of autologous cord blood derived cell administration in extremely preterm infants: a single-centre, open-label, single-arm, phase I trial (CORD-SaFe study). EBioMedicine. 2024 Dec 6:105492.
- Rock CR, Miller SL, Allison BJ. The Use of Antioxidants for Cardiovascular Protection in Fetal Growth Restriction: A Systematic Review. Antioxidants (Basel). 2024 Nov 15;13(11):1400.
- Tindal K, Filby CE, Cousins FL, Ellery SJ, Vollenhoven B, Palmer K, Gordon A, Gargett CE, Davies-Tuck M, The composition of menstrual fluid, its applications, and recent advances to understand the endometrial environment: a narrative review, F&S Reviews (2024)

Student prizes and awards

In 2024, our students won prestigious prizes and awards, including:

- Kirstin Tindal** was awarded the **2024 F&S Reviews Prize** recognising an "exceptional paper published in which the first author is a trainee", for her paper titled: The composition of menstrual fluid, its applications, & recent advances to understand the endometrial environment
- Lindsay Zhou** was awarded the **PRS Mont Liggins Award** and the **Cerebral Palsy Alliance Award** for his oral abstract "Feasibility and Safety of Autologous Cord Blood Derived Cell Therapy in Extremely Preterm Infants: The CordSaFe Study" at the **PSANZ Annual Congress**.
- Abdul Razak** was awarded the **Eric Burnard Fellowship 2024** (\$10,000) for his project: 'Cell therapies for Preterm Brain Injury'.