

Hudson Institute of Medical Research



271
STAFF



176
STUDENTS



43
RESEARCH
GROUPS



246
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 447 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.



56
GRADUATE
AND HONOURS
STUDENTS
COMPLETED



176
STUDENTS
127 PHD
18 MASTERS
31 HONOURS

Figures from 2025

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 2027 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-institute-of-medical-research)
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

2027

The Ritchie Centre | Our supervisors



Head, The Ritchie Centre
Prof Suzanne Miller



Fetal and Neonatal Health
Prof Stuart Hooper AM



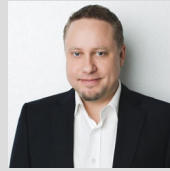
Lung Development
A/Prof Megan Wallace



Endometrial Stem Cell Biology
Prof Caroline Gargett



**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



**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**
A/Prof 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
Inflammatory Bowel Disease

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 2025 our students were first authors on research publications, including:

- Sadiasa A, Werkmeister JA, Gurung S, Gargett CE. [Steps toward the clinical application of endometrial and menstrual fluid mesenchymal stem cells for the treatment of gynecological disorders](#). Expert Opin Biol Ther. 2025 Feb 10.
- Peterson BM, Rudloff I, Deen NS, Di Simone SK, Nataraja RM, Toldi G, Pacilli M, Garrick SP, Cho SX, Nold MF, Forster SC, Nold-Petry CA. [The microbiome's hidden influence: preclinical insights into inflammatory responses in necrotizing enterocolitis](#). Semin Immunopathol. 2025 Nov 24;47(1):41.
- Azman Z, Sehgal A, Miller SL, Bubb KJ, Polglase GR, Allison BJ. [Compromised cardiopulmonary transition in fetal growth restricted and small for gestational age neonates](#). J Physiol. 2025 Sep 15.

Student prizes and awards

In 2025, our students won prestigious prizes and awards, including:

- Zahrah Azman** received the Tania Gunn Award for Best Long Talk at FNPS (Fetal & Neonatal Physiological Society Meeting).
- David Hennes** received the 'Best Paper Award' at the UAA 2025: 22nd Urological Association of Asia Congress.
- Emily Whalen** was awarded the PRS Mont Liggins Award and ECR Travel Award, for her oral abstract 'Investigating the maternal-fetal transfer of sulforaphane' at the PSANZ Annual Conference.
- Emily Whalen** was awarded 2nd Place in the Faculty of Medicine, Nursing & Health Sciences 3MT (Three Minute Thesis) Final.