

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

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



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
- Hudson_Research
- Hudson_Research
- Hudson Institute of Medical Research

Contact us

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e: info@hudson.org.au
w: hudson.org.au

HUDSON
INSTITUTE OF MEDICAL RESEARCH



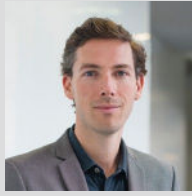
Centre for Innate Immunity and Infectious Diseases

Discovery and translational research in infection, cancer and inflammatory disease

2025

Centre for Innate Immunity and Infectious Diseases (CiiiD) | Our supervisors

CiiiD Centre Head



Professor Seth Masters
Innate Immune and Autoinflammatory Disease

Deputy Centre Head



Professor Richard Ferrero
Gastrointestinal Infection and Inflammation

Deputy Centre Head



Associate Professor Michelle Tate
Viral Immunity and Immunopathology



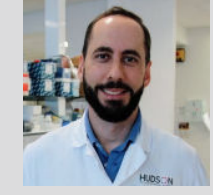
Associate Professor Kate Lawlor
Cell Death and Inflammatory Signalling



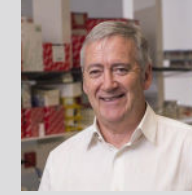
Professor Elizabeth Hartland
Innate Immune Responses to Infection



Associate Professor Sam Forster
Microbiota and Systems Biology



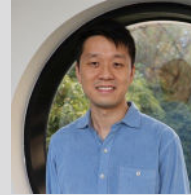
Associate Professor Michael Gantier
Nucleic Acids and Innate Immunity



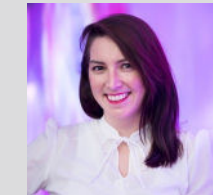
Professor Paul Hertzog
Regulation of Interferon and Innate Signalling



Professor Phil Bardin
Respiratory and Lung



Dr Wilson Wong
Structural Biology of Inflammation and Cancer



Dr Sophia Davidson
Neuroinflammation and Neurodegeneration



Professor Carl Walkley
RNA biology and Innate Immune Sensing

What we research

Infections

COVID-19
HIV
Zika virus
Influenza
Helicobacter pylori
Enteropathogenic *E. coli* (EPEC)
Salmonella enterica serovars
Shigella spp.
Legionella spp. (Legionnaires' disease)
Burkholderia (melioidosis)
Herpes simplex virus
Human metapneumovirus
Respiratory syncytial virus

Inflammation

Sepsis
Arthritis
Systemic lupus erythematosus
Autoinflammatory diseases
Diabetes

Cancer

Stomach
Breast
Lung
Ovary
Pancreas

Gastrointestinal disease

Gastritis
Gastroenteritis / Diarrheal disease
Inflammatory bowel disease

Neurodegeneration

Aicardi-Goutières Syndrome
Parkinsons Disease
Motor Neuron Disease
Dementia

Respiratory disease

Asthma
Chronic obstructive pulmonary disease
Respiratory infections

What we do

Research at the Centre for Innate Immunity and Infectious Diseases has led to ground-breaking discoveries in innate immunology and the microbiome that are changing our understanding and treatment of cancer, inflammatory and infectious diseases.

The Centre for Innate Immunity and Infectious Diseases (CiiiD), led by Professor Seth Masters, houses the largest group of inflammation and immunity researchers in Australia. They are world leaders in studying the body's innate, or first-line, immune response and how it and the microbiome trigger inflammation, leading to cancer, autoimmune conditions (lupus, inflammatory bowel disease, arthritis), lung (COPD, emphysema, silicosis) and infectious diseases (gastroenteritis, influenza, pneumonia).

The Centre for Innate Immunity and Infectious Diseases goals are to

- Discover the steps and connections that turn inflammation on and off
- Develop new treatments for inflammatory diseases and cancer
- Identify markers that help diagnose and detect disease earlier.

Student first author publications

- *CiiiD students publish in the top-ranked multidisciplinary journals: Zoe Marks et al., Interferon-ε is a tumour suppressor and restricts ovarian cancer. Nature. 2023 620(7976):1063-1070.*
- *Student work is directly contributing to knowledge about inflammatory pathways in infectious disease: Sarah Rosli et al., Gasdermin D promotes hyperinflammation and immunopathology during severe influenza A virus infection. Cell Death Dis. 2023 14(11):727.*
- *Students collaborate widely with Industry and Clinicians to have translational outcomes: Gemma D'Adamo et al., Bacterial clade-specific analysis identifies distinct epithelial responses in inflammatory bowel disease. Cell Rep Med. 2023 4(7):101124.*

Student prizes and awards

In 2023 and early 2024, our students won prestigious prizes, awards and placements, including:

- **Alice Figueiredo Camargos, Anita Chaulagain, Sarah Rosli and Refaya Rezwan** – Accepted into the Industry Mentoring Network in STEM (IMNIS) 12 month industry-placement internship program.
- **Arwaf Alharbi** – Hudson Mitchell Travel Fellowships

For more information about our student projects:
Go to w: hudson.org.au/students/student-projects/ and search by supervisor name or theme