

# Department of Immunology and Pathology



Monash Immunology and Pathology graduate students and postdocs are actively involved in community outreach, including the annual international Day of Immunology.

The Monash University Department of Immunology and Pathology is internationally renowned for its combined expertise in research, teaching and service delivery in immunology and immunopathology.

There are extensive research programs in basic and translational immunology, including highly successful collaborations with the Alfred hospital and other ARA partners. The department's research activities target diseases including allergy, asthma, autoimmunity, inflammation, immunodeficiency, lupus, organ fibrosis, cancer and helminth infection. The department also focuses on investigating novel treatments, such as the regulation of the microbiota in disease.

See more:

[www.monash.edu/medicine/ccs/immunology](http://www.monash.edu/medicine/ccs/immunology)

## PROJECTS AVAILABLE:

### [Targeting the blood feeding pathway of the hookworm parasites](#)

Supervisor(s): Prof Nicola Harris and Dr Tiffany Bouchery

Email: [Nicola.Harris@monash.edu](mailto:Nicola.Harris@monash.edu)

Applicable for: Hons

### [The role of the microbiota in the protection against re-infection with intestinal parasitic worms](#)

Supervisor(s): Prof Nicola Harris and Dr Mati Moyat

Email: [Nicola.Harris@monash.edu](mailto:Nicola.Harris@monash.edu)

Applicable for: Hons

### [Investigating immunity during “trickle” infection by helminth parasites](#)

Supervisor(s): Prof Nicola Harris and Dr Gillian Coakley

Email: [Nicola.Harris@monash.edu](mailto:Nicola.Harris@monash.edu)

Applicable for: Hons

### [Investigating the contribution of a newly identified myeloid cell gene - resistin-like gamma \(mRetnlγ\) - during host immune responses](#)

Supervisor(s): Prof Nicola Harris and Prof Benjamin Marsland

Email: [Nicola.Harris@monash.edu](mailto:Nicola.Harris@monash.edu)

Applicable for: PhD

### [Exploring new pathways that control microglial signalling and neuroinflammation](#)

Supervisor(s): Assoc Prof Margaret Hibbs and Dr Bridgette Semple

Email: [Margaret.Hibbs@monash.edu](mailto:Margaret.Hibbs@monash.edu)

Applicable for: PhD, Masters, Hons, BMedSc

### [Defining the factors underpinning steroid-insensitive asthma](#)

Supervisor(s): Assoc Prof Margaret Hibbs

Email: [Margaret.Hibbs@monash.edu](mailto:Margaret.Hibbs@monash.edu)

Applicable for: PhD, Masters, Hons, BMedSc

### [Targeting the microbiome to prevent asthma](#)

Supervisor(s): Prof Benjamin Marsland and Dr Tomasz Wypych

Email: [Benjamin.Marsland@monash.edu](mailto:Benjamin.Marsland@monash.edu)

Applicable for: PhD, Masters, Hons, BMedSc

### [Does dietary protein intake influence susceptibility to respiratory diseases?](#)

Supervisor(s): Prof Benjamin Marsland and Dr Olaf Perdijk

Email: [Benjamin.Marsland@monash.edu](mailto:Benjamin.Marsland@monash.edu)

Applicable for: PhD, Masters, Hons, BMedSc

Therapeutic targeting of interleukin-22 for severe urinary tract infection and associated renal complications

Supervisor(s): Dr Malcolm Starkey and Dr Bernadette Jones-Freeman

Email: [Malcolm.Starkey@monash.edu](mailto:Malcolm.Starkey@monash.edu)

Applicable for: PhD, Hons

### [Manipulating immunisation to achieve preferred outcomes](#)

Supervisor(s): Prof David Tarlinton and Dr Isaak Quast

Email: [David.Tarlinton@monash.edu](mailto:David.Tarlinton@monash.edu)

Applicable for: PhD

### [Using anti-venom antibodies to resolve toxicity, relatedness and improve protection](#)

Supervisor(s): Prof David Tarlinton, Assoc Prof Steven Rockman (External), and Prof Andrew Lew (External)

Email: [David.Tarlinton@monash.edu](mailto:David.Tarlinton@monash.edu)

Applicable for: PhD