



**Trinity College Dublin**  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin

# M.SC. IN IMMUNOLOGY

SCHOOL OF BIOCHEMISTRY & IMMUNOLOGY, TCD



## Introduction

This one year Masters course, run by the School of Biochemistry and Immunology at TCD, Ireland, provides academic, laboratory and research training in cellular and molecular immunology, with emphasis on the interface between basic, clinical and therapeutic immunology. A major focus is on understanding how inflammatory regulation is lost in disease processes including viral, bacterial and parasitic infection, as well as cancer, autoimmune and allergic disease.

## Course Content

TCD's leading researchers in immunology, clinical disease, therapeutics, genomics, scientific communication and immunological technologies will teach using a variety of methods, including lectures, laboratory practicals, tutorials, journal clubs and workshops. Students will also be given exposure to industrial practices in order to enhance future career prospects.

## Skills

Based in Trinity's new Biomedical Sciences Institute, M.Sc. students will have access to state-of-the-art core facilities, including flow cytometry, microscopy, tissue culture and computer suites. Students will be introduced to cutting edge immunological technologies, developing expertise in experimental design, data analysis, statistics, science communication and hypothesis driven translational research.

## Research Project

A 12 week research project, under the direction of leading immunology researchers will be taken by each student. Projects will explore novel immunological hypotheses related to work ongoing in host labs. The theoretical and technical aspects of immunology covered in the taught modules will be fundamental to carrying out practical, innovative and cutting-edge research. A thesis will be prepared and submitted for assessment.





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## Modules (1 year full time)

- Basic Immunology
- Immunological Technologies
- Communicating Science & Critical Analysis
- Immunogenetics
- Microbe Detection and Evasion
- Clinical Immunology
- Parasite Immunology
- Tumour Immunology
- Global Infectious disease
- Immunotherapeutics & Product Development
- 12 week Immunology Research Project

## Application Website

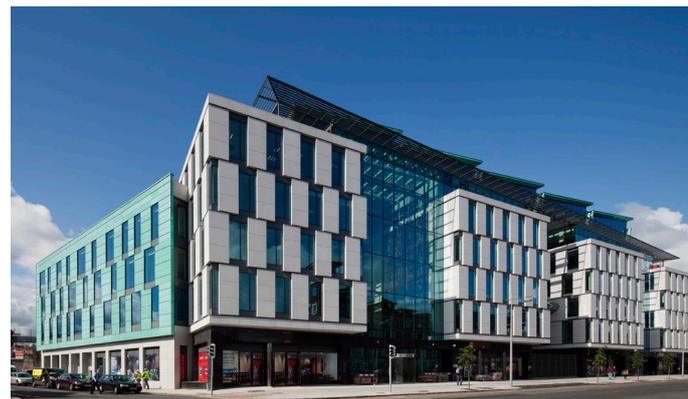
[www.tcd.ie/apply/mscimmunology](http://www.tcd.ie/apply/mscimmunology)

## Contact

Prof. Cliona O'Farrelly  
Dr. Nigel Stevenson  
Email: [MSc.Immunology@TCD.ie](mailto:MSc.Immunology@TCD.ie)



**Commences September**



## Admission

This M.Sc. is designed for graduates aiming to pursue careers in academic research, medicine or the pharmaceutical industry, for which a thorough grounding in immunology, immune-mediated pathogenic mechanisms and immunotherapy is required. Applicants are required to hold at least an Upper Second Class Honours degree (2.1) in Medicine, Veterinary Science, Dentistry, Molecular Biology, Genetics, Immunology, Biochemistry or any Biological Science.

