

# Immunology

*Immunology is part of our curriculum that includes a module within the Foundations in Clinical Medicine I: Introduction to Biomedical Sciences module and integrated content in other courses over the program*

## **Year One Term One Foundations I: Introduction to Foundations of Medicine: Immunology:**

Overview of the immune system	Immune Class Regulation
Innate Immune System	Advanced Immunology I and II
Adaptive Immune System I & II	Immune System Histology
Self-Non-self Discrimination	
Application of Immunology to: Allergy, Autoimmunity, Cancer, Vaccinology	

Shadowing opportunities with clinical allergists may be available upon request

### **Foundations of Clinical Medicine I-IV**

The systems based modules within the four linked Foundations of Clinical Medicine courses incorporate curricular content around immune related diseases including:

- 1. Haematology:** autoimmune hemolytic anemias/ thrombocytopenias, lymphoproliferative malignancies/multiple myeloma, anti-phospholipid antibody syndrome
- 2. Endocrine:** autoimmune thyroid diseases, type I diabetes mellitus
- 3. Gastrointestinal Medicine:** inflammatory bowel diseases, celiac diseases, autoimmune liver diseases (primary biliary cirrhosis, autoimmune hepatitis, sclerosing cholangitis)
- 4. Respiratory Medicine:** asthma (including occupational related), interstitial lung disease
- 5. Dermatology:** a variety of cutaneous manifestations linked to immunologic dysregulation (including psoriasis, urticarial and angioedema, vesicobullous diseases)
- 6. Musculoskeletal Medicine:** autoimmune rheumatologic disorders (including rheumatoid arthritis, systemic lupus erythematosus, systemic vasculitis, laboratory testing for autoantibodies, idiopathic inflammatory myopathies, Sjogren's syndrome, systemic sclerosis)
- 7. Neurosciences:** demyelinating diseases-multiple sclerosis, mononeuritis multiplex
- 8. Kidney & Urinary Tract:** autoimmune kidney diseases (autoimmune forms of glomerulonephritis including systemic lupus erythematosus, systemic vasculitis), transplant
- 9. Reproductive Medicine:** prenatal alloimmunization

### **Year Three- Four**

**Selected Topics in Medicine Course:** Sessions including—immunizations, immunodeficiencies (primary and acquired), approach to fever in an immune-compromised host

**Core Rotations:** ER –anaphylaxis, Clinical rotations will provide the students with opportunities to care for patients with disorders related to or impacting the immune system

**Clinical Electives Course:** External electives in Allergy/Clinical Immunology may be considered.