

Immunology

Immunology is part of our curriculum that includes a module within the Principles of Biomedical Sciences course and integrated content in other courses over the program

Year One Term One

Principles of 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	Vaccines
Special Topics: autoimmunity, hypersensitivity, immunopathogenesis, tumor immunology, diagnostic immunology	

Shadowing opportunities with clinical allergists may be available upon request

Year One Term Two- Year Two: Foundations of Clinical Medicine I-III

The three 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. **Respiratory Medicine:** asthma (including occupational related), interstitial lung disease
3. **Gastrointestinal Medicine:** inflammatory bowel diseases, celiac diseases, autoimmune liver diseases (primary biliary cirrhosis, autoimmune hepatitis, sclerosing cholangitis)
4. **Kidney & Urinary Tract:** autoimmune kidney diseases (autoimmune forms of glomerulonephritis including systemic lupus erythematosus, systemic vasculitis), transplant
5. **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)
6. **Neurosciences:** demyelinating diseases-multiple sclerosis, mononeuritis multiplex
7. **Endocrine:** autoimmune thyroid diseases, type I diabetes mellitus
8. **Reproductive Medicine:** prenatal alloimmunization
9. **Dermatology:** a variety of cutaneous manifestations linked to immunologic dysregulation (including psoriasis, urticarial and angioedema, vesicobullous diseases)

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.