Immunology

Please choose your Learning Topic below

- **The Basics of the Immune System**
  - 1. A Snapshot of the Immune System
  - 2. Ontogeny of the Immune System
  - 3. The Innate Immune System
  - 4. MHC & Antigen Presentation
  - 5. Overview of T Cell Subsets
  - 6. B Cell Activation and Plasma Cell Differentiation
  - 7. Antibody Structure and Classes
  - CD Nomenclature

- **Advanced Immunology**
  - 1. Transplantation
  - 2. Central & Peripheral Tolerance
  - 3. Immune Regulation in Pregnancy
  - 4. Breaking Tolerance: Autoimmunity & Dysregulation
  - 5. Mucosal Immunity & Immunopathology
  - 6. Regulation of Immunity & the Microbiome
  - 7. Epigenetics & Modulation of Immunity
  - 8. Inflammation and autoinflammation
  - 9. T cell mediated autoimmune diseases
  - 10. Antibody-mediated autoimmune diseases

- **Special Focus Area**
  - 1. Primary Immunodeficiencies
  - 2. Cancer & Tumours
    - Cancer Epidemiology and Aetiology
    - Immune Responses to Cancer
    - Cancer Stem Cells and Tumour-initiating Cells
    - Tumour Microenvironment
    - Pathogens and Cancer
Cancer Immunotherapy

3. Immunity to TB
4. Immunity to Malaria
5. Immunity to HIV
6. Tolerance and Autoimmunity

Historical Fun Facts

Discovery of the Thymus as a central immunological organ
History of Immune Response
History of Immunoglobulin molecules
History of MHC – 1901 – 1970
History of MHC – 1971 – 2011