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
 - <u>4. MHC & Antigen Presentation</u>
 - 5. Overview of T Cell Subsets
 - <u>6. B Cell Activation and Plasma Cell</u> 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
 - <u>5. Mucosal Immunity & Immunopathology</u>
 - <u>6. Regulation of Immunity & the Microbiome</u>
 - 7. Epigenetics & Modulation of Immunity
 - 8. Inflammation and autoinflammation
 - <u>9. T cell mediated autoimmune diseases</u>
 - 10. Antibody-mediated autoimmune diseases
- Special Focus Area
 - 1. Primary Immunodeficiencies
 - 2. Cancer & Tumours
 - Cancer Epidemiology and Aetiology
 - Immune Responses to Cancer
 - <u>Cancer Stem Cells and Tumour-initiating</u>
 Cells
 - <u>Tumour Microenvironment</u>
 - Pathogens and Cancer

- <u>Cancer Immunotherapy</u>
- 3. Immunity to TB
- <u>4. Immunity to Malaria</u>
- <u>5. Immunity to HIV</u>
- <u>6. Tolerance and Autoimmunity</u>
- <u>Historical Fun Facts</u>
 - Discovery of the Thymus as a central immunological organ
 - History of Immune Response
 - History of Immunoglobulin molecules
 - <u>History of MHC 1901 1970</u>
 - <u>History of MHC 1971 2011</u>