

## **JM 204: Basics in Immunology, 3 credits**

**Instructor: Prof. Ranga Uday Kumar**

**Syllabus:** A history of immunobiology, basic concepts in immunology, immunologists' toolbox, the innate and the adaptive immune systems, cell-mediated immune responses to antigens, introduction to various classes of T-cells and MHC-molecules, antigen presentation to T-cells, the diversity of MHC molecules, B-cell responses to antigens, structure of antibodies, antigen-antibody interactions, B-cell development T-cell development, T-cell function, B-cell function, and the failure of the immune system.