

**Course Title/Code:** Therapeutic Antibodies (MMPH6022)

**Department:** Pharmacology and Pharmacy

**Objectives:**

- To provide an overview of monoclonal antibody-based therapeutics
- To study the pharmacokinetics and pharmacodynamics of therapeutic antibodies
- To introduce different technologies for therapeutic antibody engineering
- To review the contemporary development of therapeutic antibodies in cardiovascular, metabolic and cancer diseases

**Content:**

- Monoclonal antibody-based therapeutics – Medical History and Current Status
- Pharmacokinetics and pharmacodynamics of therapeutic antibodies
- Engineering and production of therapeutic antibodies
- Application and development of therapeutic antibodies in different types of diseases

**Learning outcomes:**

- To understand the principles of monoclonal antibody-based therapies
- To appreciate the unique pharmacological properties of therapeutic antibodies
- To discuss disease conditions for which patients might be given therapeutic antibodies
- To identify important considerations in managing patients on antibody therapies
- To recognize the developmental process and pipelines of therapeutic antibodies for different types of diseases

**Prerequisite:** Nil

**Duration:** Semester 2; 2 hours/week; 24 contact hours

**Coursework/  
Examination ratio:** In-course assessment (40%) and final examination (60%)

**Remarks:** Written Examination / 2-hour

**Remarks:** Also offered to RPg from other Faculties at HKU