

COURSE DETAIL

FUNDAMENTAL PHARMACOLOGY

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

117

UCEAP Course Suffix**UCEAP Official Title**

FUNDAMENTAL PHARMACOLOGY

UCEAP Transcript Title

PHARMACOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the basic principles of receptor pharmacology and of pharmacokinetics with emphasis on molecular and cellular mechanisms of action, clinical uses and adverse effects using lectures, tutorials and practicals. The lecture topics start with the classical drug receptor theory followed by pharmacokinetics and molecular pharmacology of drug receptors and their regulation including receptor-mediated signal transduction and membrane ion channel function. Autonomic pharmacology (adrenergic and cholinergic) is introduced. The module also focuses on the pharmacology of autacoids, non-steroidal anti-inflammatory agents, corticosteroids, immunosuppressants, anti-asthma drugs, and anti-arthritic drugs.

Language(s) of Instruction

English

Host Institution Course Number

LSM3211

Host Institution Course Title

FUNDAMENTAL PHARMACOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Sciences

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