Pharmacology 1 and Prescription Knowledge

Mechanism of Action and Effects of Drugs

Refer lecturer for course updated notes.

Students are oblidged to follow the courses for evaluation process and presented notes are preliminary drafts for the whole evaluation process.

Non-structural property remedies

Physico-cehimcal property related effects

Structural fearure

Custom domain-domain shape (receptor, transport protein, ion migration, G-protein, chemical messanger)

Isomerism

- Structural Isomerism (Constitutional)
 - Chain isomerism
 - Positional isomerism
 - Functional group isomerism
- Stereoisomerism
 - Configurational
 - Geometric
 - Optical
 - Enantiomer
 - Diastereomers
 - Conformational

- Target points
- Enzymes, antimetabolytes
- Ion channels
- Receptors
- Transport systems

Receptors

- Definition
- Effects
- Types
- Drug-receptor interactions
- Changing the number of receptors
- Drug-receptor bonds
- Drug receptor interaction theories/hypotheses

- Agonist
- Antagonist
- Partial agonist-antagonist

- Mechanisms fo drugs
- Physical and chemical effects

- Nuclear receptors
- Substance P
- VIP

- Receptors and postreceptor events
- G protein signaling
- Secondary messangers

Drug interactions

- Mechanisms of drug interactions
- Pharmaceutical interactions
- Pharmakokinetic interactions
- Absorption/Distribution/Metabolism/Excretion interactions