Pharmacology

النادي الطب

Subject :

Lecno: 8

Done By 8 Raneem Azzam

و المحالة محالة مح





PHARMACODYNAMICS

Types of Drug Action:

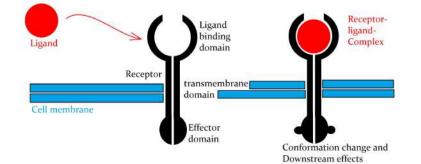
- Local or topical action: drugs act on site of application e.g. ointment or eye drops.
- Systemic or general action: the drug acts after administration and distribution by circulation to various tissues. e.g. Aspirin
- ه بعطال معطل في مكان **Reflex or remote action:** the drug acts locally at one site to produce reflex action elsewhere. e.g. Ammonia inhalation → irritation of nose → منعطيالعد من عليه منعطي لعد من عليه منابع

Mechanism (Mode) of Action of Drugs سيف مستعل

- Drugs can induce a tissue response, initially through:
 - **Body control systems** (the regulatory proteins): involving I. لمسكلص عبارة interactions with: عن يويين (1) Receptors (2) Ion channels (3) Enzymes (4) Carrier molecules الحل اجمين II. Other mechanisms: (6) Genetic apparatus - on DNA/virus < PNA (5) Subcellular structures (7) Physical mechanisms (8) Chemical mechanisms

1) Receptor-Mediated Mechanisms

- **Receptors** are specific cellular macromolecules (usually proteins) that interact with a ligand (binding) to produce a response.
 - Ligand: any molecule that can combine with the receptor. A ligand that activates receptor is called **agonist**. A ligand that blocks the receptor is called **antagonist**



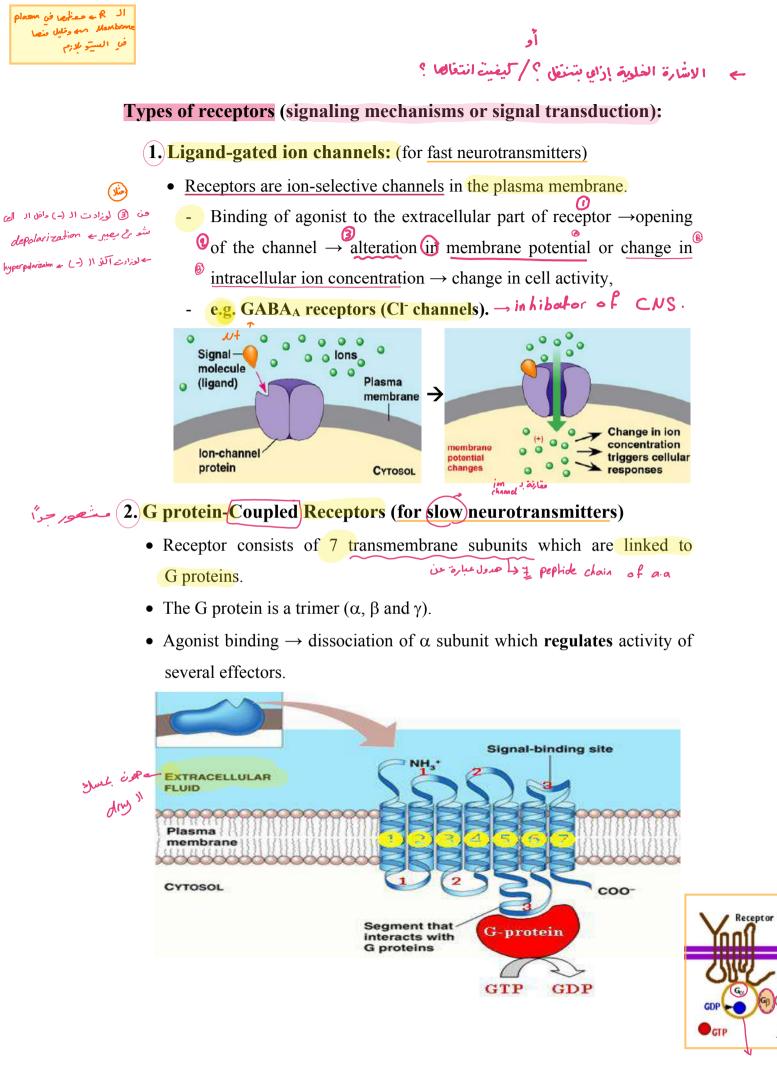
سيزء من المتبلين

- Drug

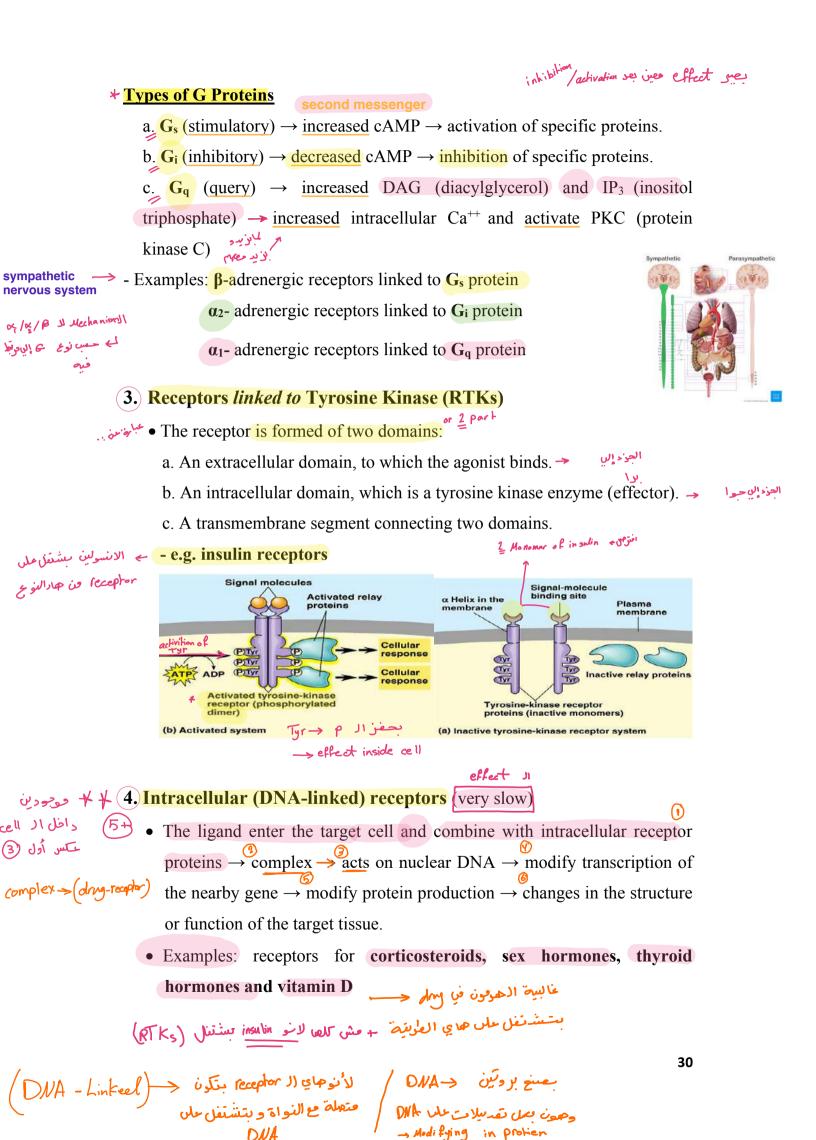
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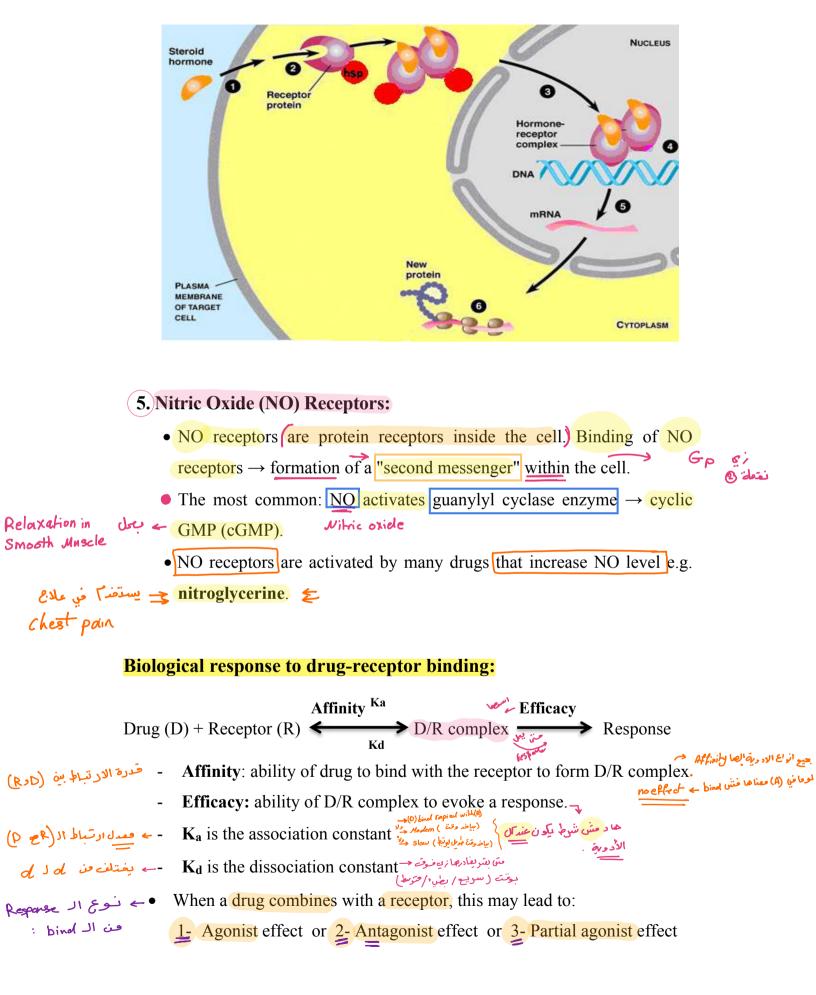
hermone

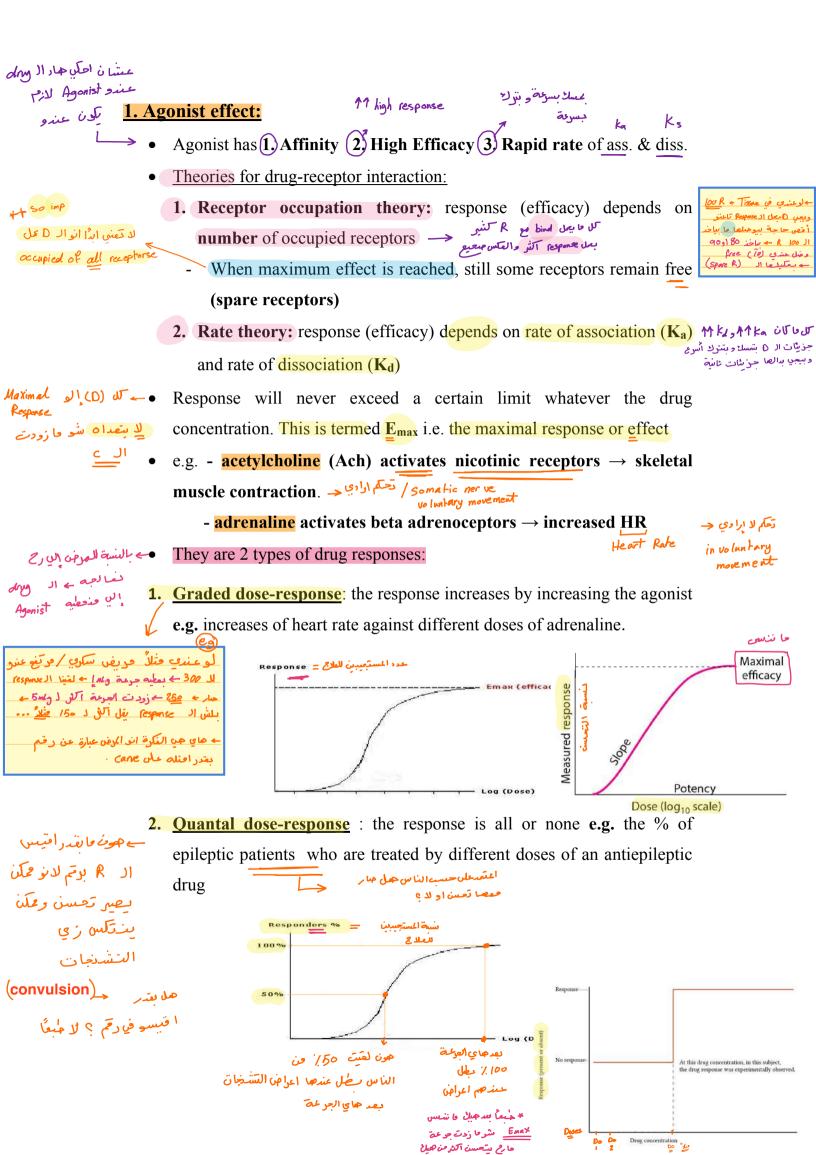
···· etc



ما يعمين (29 activation 29 تنفعل (20)







Tissue إلى عدي مو العيان لي ما بيعل Fesponse بعد العيل it's set action بعد العيان تعين بين ؟ يمنو ال not fesponse بعد العيان تعين بين ؟ يمنو ال not some تاى ال Tissue العيان تعاد المعاد المع

