



Pharmacology

Quiz time



Lec 14



****?Which type of receptor produces a response within milliseconds .1****

- A) G protein-coupled receptors
- B) Ligand-gated ion channels
- C) Enzyme-linked receptors
- D) Intracellular receptors

****Answer: B) Ligand-gated ion channels****

****?The Nicotinic cholinergic receptor is an example of which receptor type .2****

- A) G protein-coupled receptor
- B) Ionotropic receptor (Ligand-gated ion channel)
- C) DNA-linked receptor
- D) Tyrosine kinase-linked receptor

****Answer: B) Ionotropic receptor (Ligand-gated ion channel)****

****?G-protein coupled receptors (GPCRs) are also known as .3****

- A) Metabotropic receptors
- B) Ionotropic receptors
- C) Cytosolic receptors
- D) Nuclear receptors

****Answer: A) Metabotropic receptors****

?Which of the following acts as a "Second Messenger" in G-protein signaling .4**

- A) Adenylate cyclase
- B) cAMP (Cyclic AMP)
- C) Protein kinase
- D) The drug molecule

****Answer: B) cAMP (Cyclic AMP)****

****?Adrenoceptors (Alpha and Beta) belong to which family of receptors .5****

- A) Ligand-gated ion channels
- B) Enzyme-linked receptors
- C) G protein-coupled receptors (GPCRs)
- D) Intracellular receptors

****Answer: C) G protein-coupled receptors (GPCRs)****

اللَّهُمَّ تَوَفَّنَا مُسْلِمِينَ، وَأَحْيِنَا مُسْلِمِينَ،
وَأَلْحِقْنَا بِالصَّالِحِينَ، غَيْرَ خَزَائِيَا وَلَا مَفْتُونِينَ

**?Insulin receptors work through which signaling mechanism .6

- A) Opening of Sodium channels
- B) Activation of G-proteins
- C) Tyrosine kinase activity (Enzyme-linked)
- D) Modulation of gene transcription in the nucleus

Answer: C) Tyrosine kinase activity (Enzyme-linked)

Which receptors are responsible for the "Genomic actions" of drugs like .7**

**?Corticosteroids

- A) Ligand-gated ion channels
- B) G-protein coupled receptors
- C) DNA-linked intracellular receptors
- D) Enzyme-linked receptors

Answer: C) DNA-linked intracellular receptors

Intracellular receptors are typically activated by ligands that are .8

- A) Large and water-soluble
- B) Highly ionized
- C) Lipid-soluble (e.g., Steroids, Vit D)
- D) Bound to plasma proteins

Answer: C) Lipid-soluble (e.g., Steroids, Vit D)

The time required for the response of Intracellular receptors is usually .9

- A) Milliseconds
- B) Seconds
- C) Hours to days
- D) Microseconds

Answer: C) Hours to days

Which enzyme is responsible for converting ATP to cAMP in GPCR .10**

**?signaling

- A) Phospholipase C
- B) Tyrosine kinase
- C) Adenylate cyclase
- D) Protein kinase C

Answer: C) Adenylate cyclase