

Receptor mediated mechanism

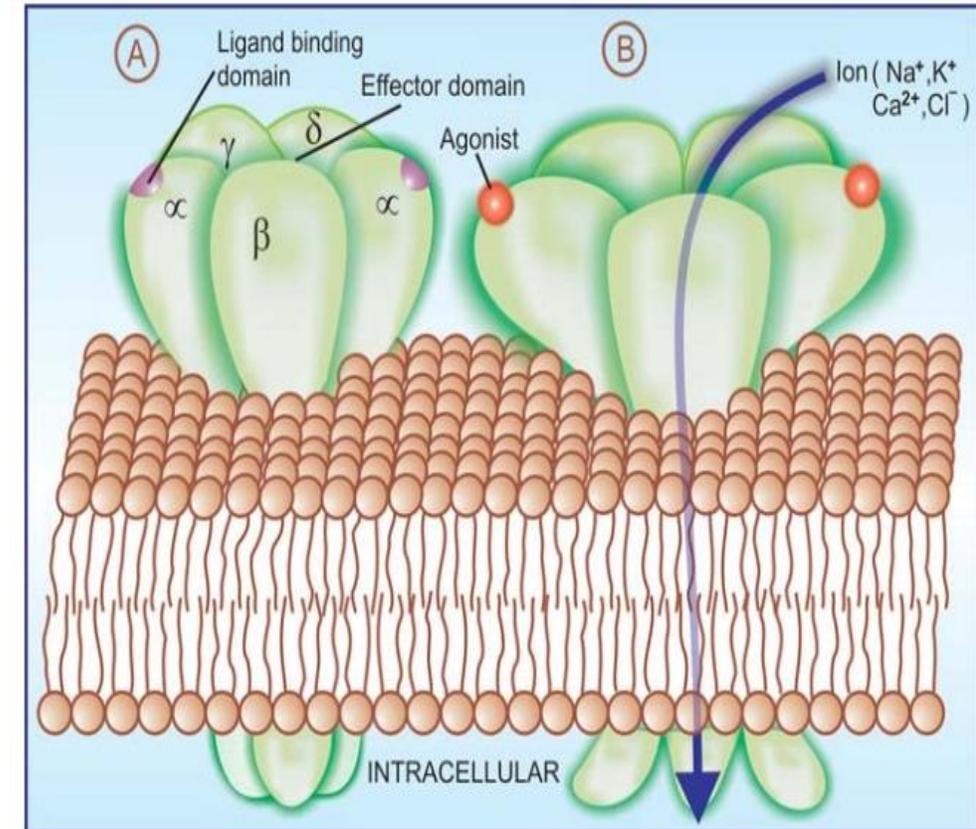
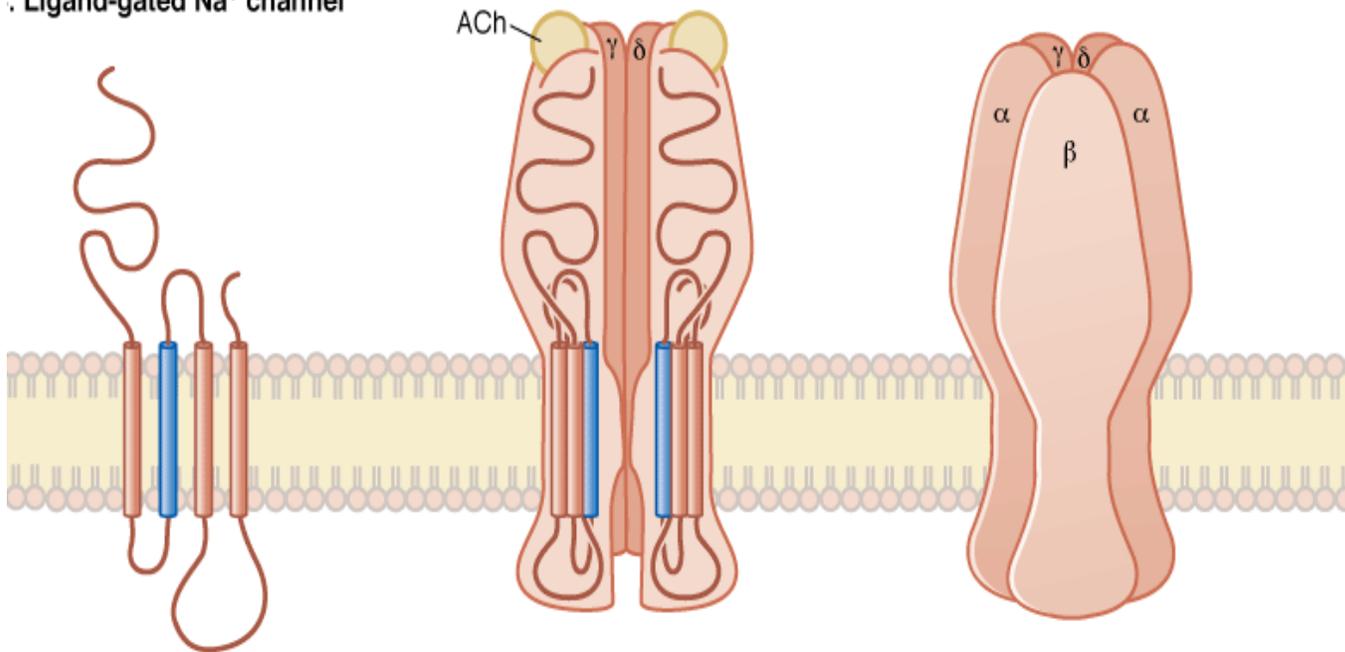
Receptor families

Four types of receptors families

1. Ligand-gated ion channels (Ionotropic receptors)
2. G-protein coupled receptor (Metabotropic receptors)
3. Enzymatic receptors (tyrosinekinase)
4. Receptor regulating gene expression (transcription factors/ Steroid)

STRUCTURAL FAMILY	FUNCTIONAL FAMILY	PHYSIOLOGICAL LIGANDS	EFFECTORS AND TRANSDUCERS	EXAMPLE DRUGS
Ion channels	Ligand-gated	ACh (M ₂), GABA, 5-HT	Na ⁺ , Ca ²⁺ , K ⁺ , Cl ⁻	Nicotine, gabapentin

• Ligand-gated Na⁺ channel



Activation of nicotinic acetylcholine receptor by acetylcholine

