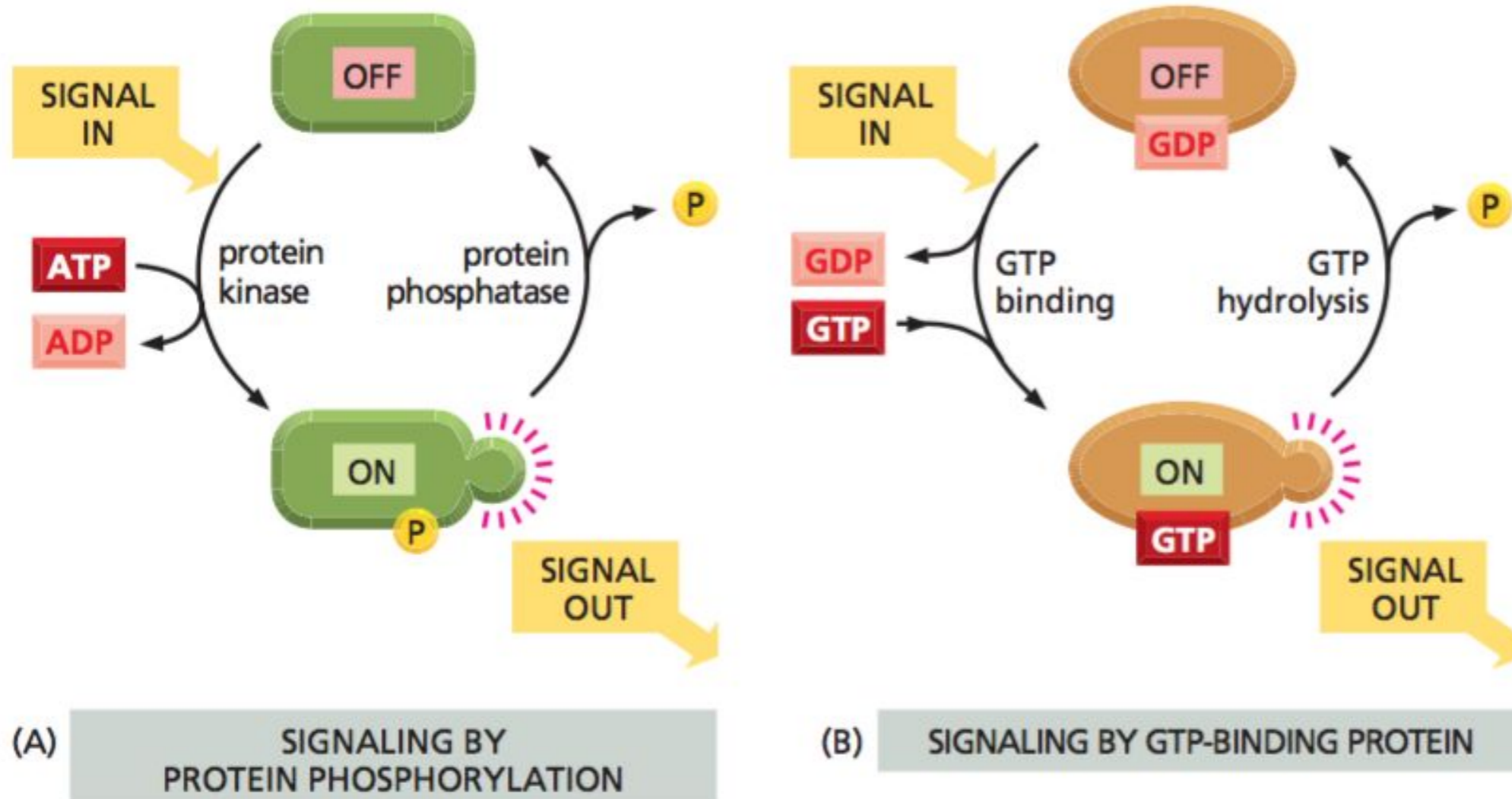


Receptor signalling

GPCR

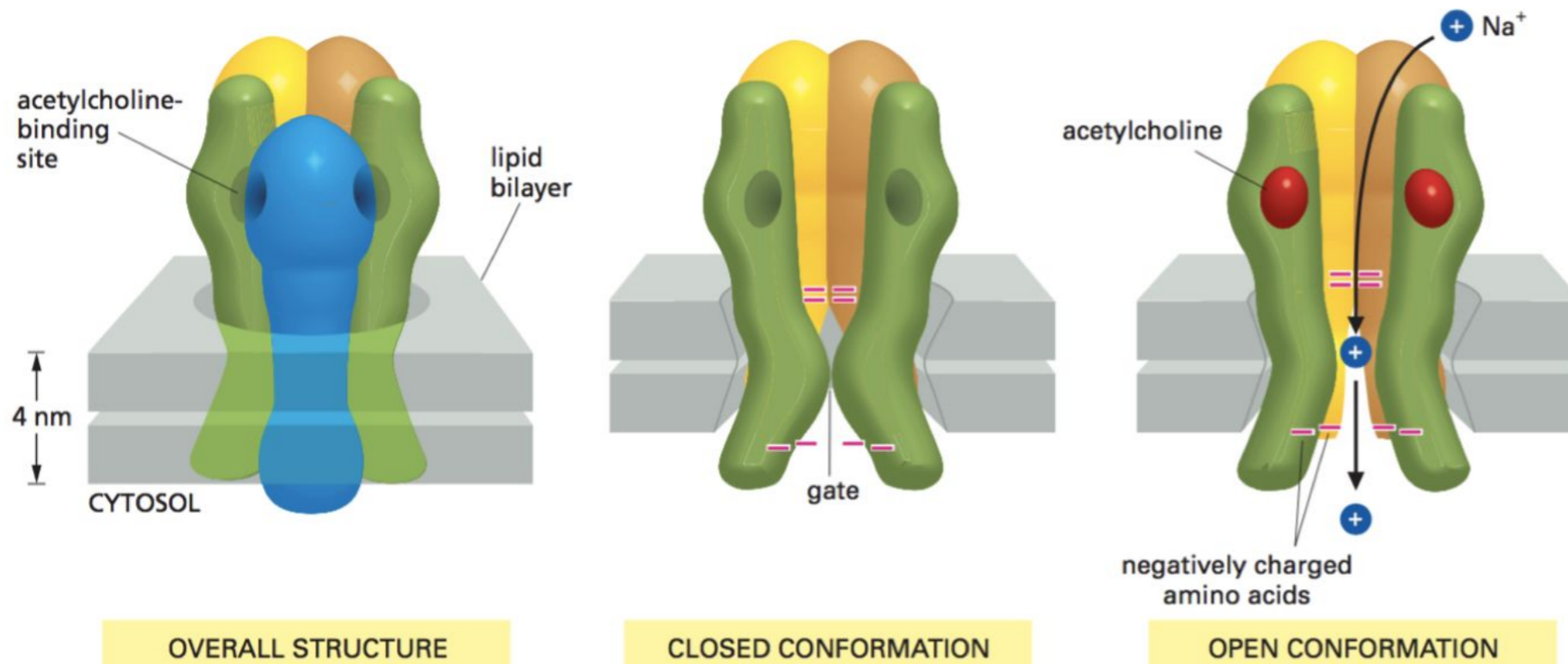
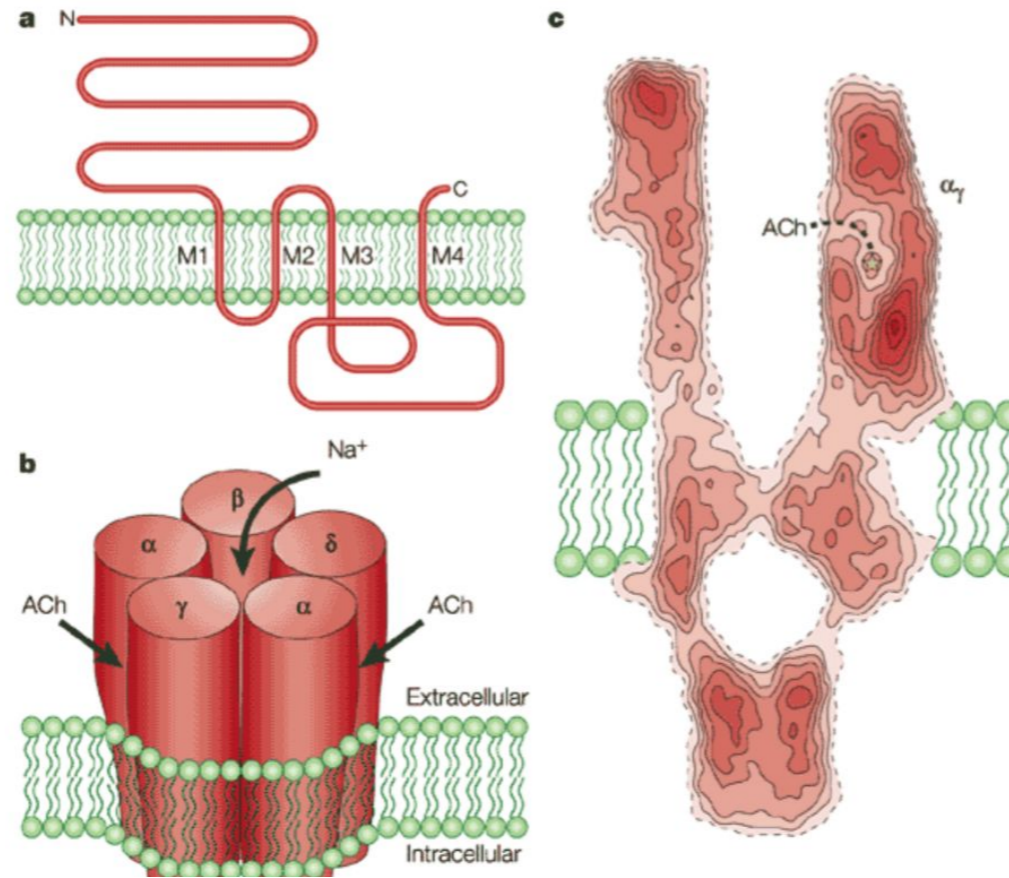
Fall into three classes:

- Ion-channel-coupled receptors (e.g. ACh receptors)
- G-protein-coupled receptors
- Enzyme-coupled receptors (e.g. Tyrosine kinases)



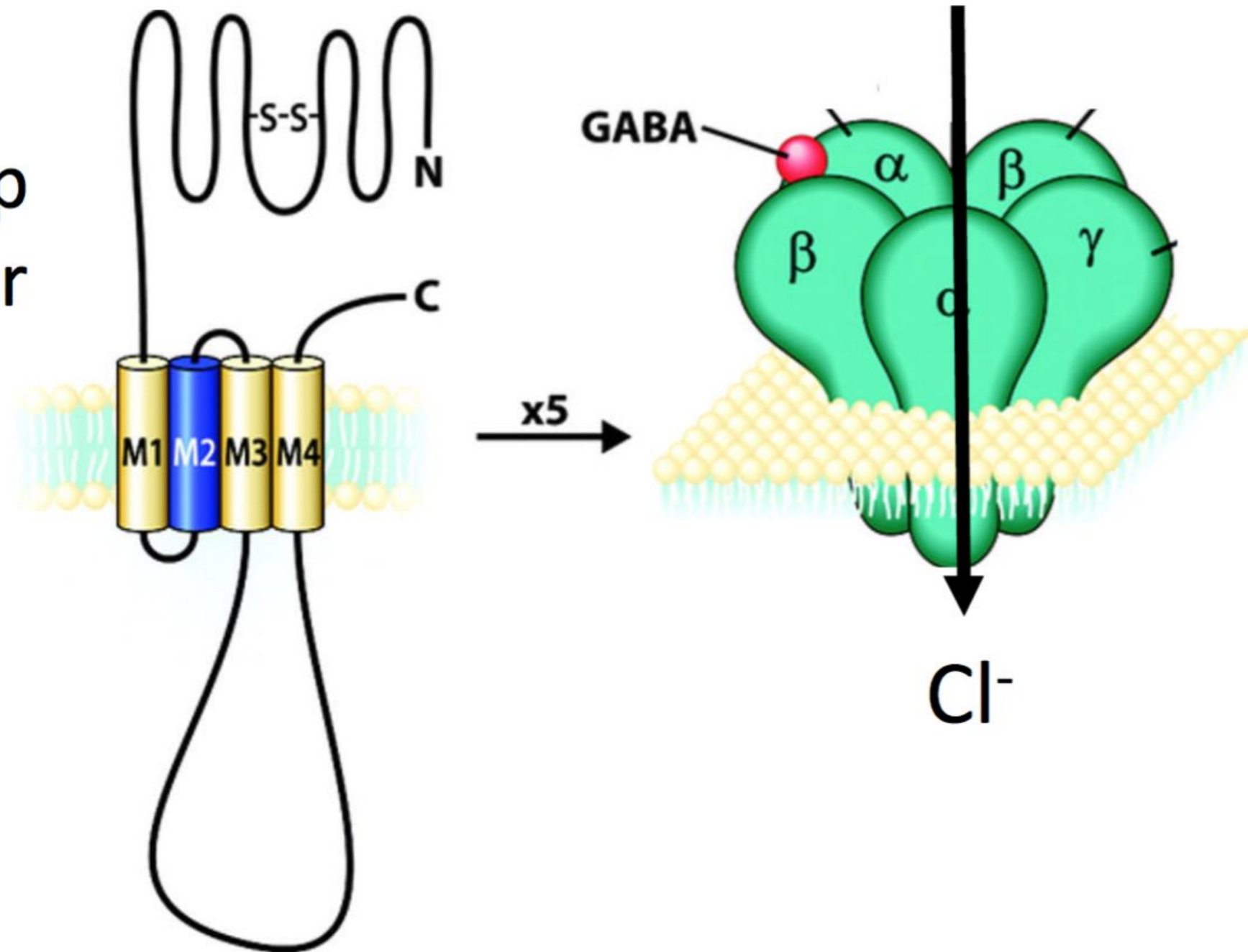
Nicotinic *acetyl choline* receptors

Cys-loop
receptor



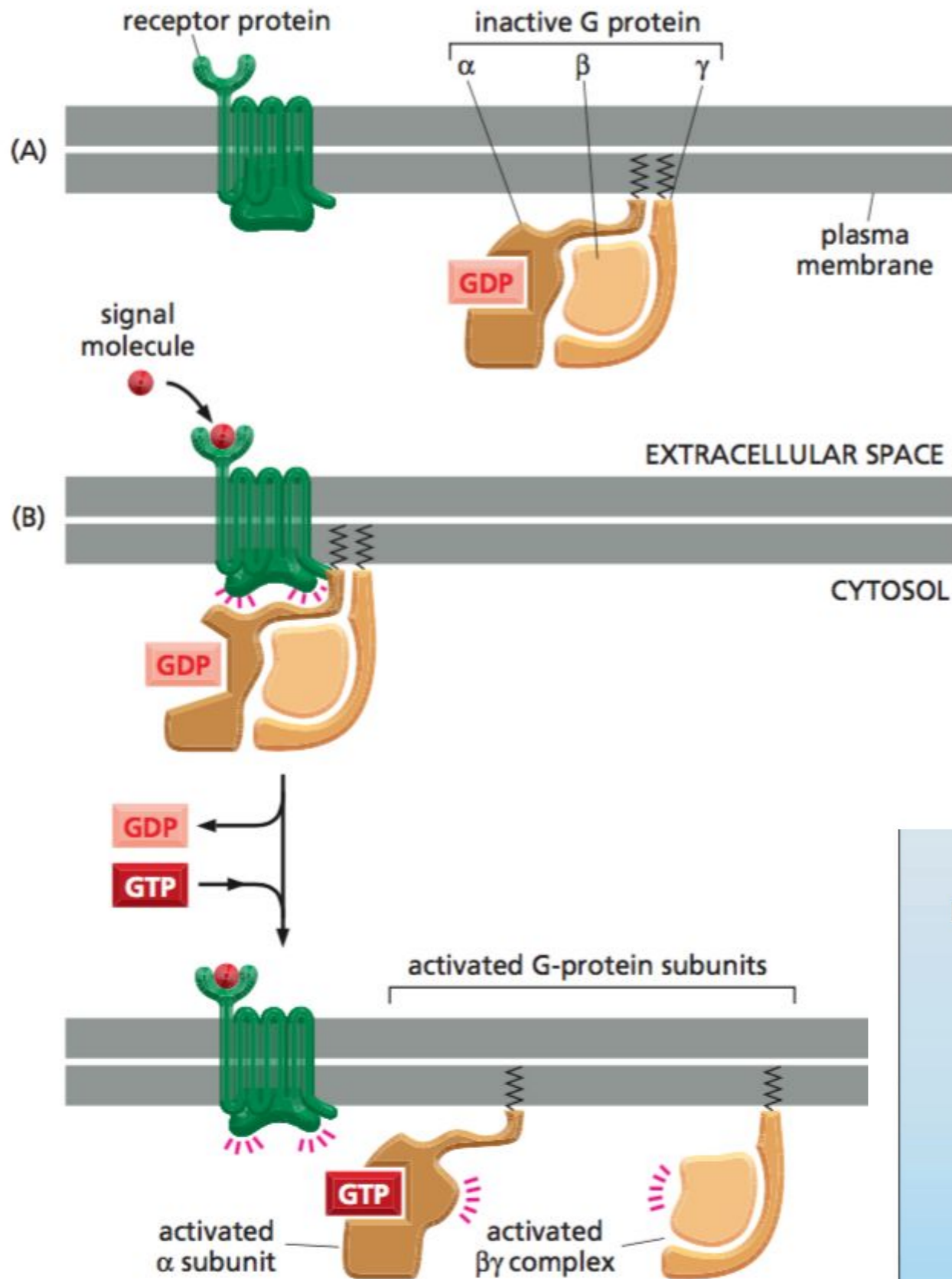
GABA_A receptors

Cys-loop receptor



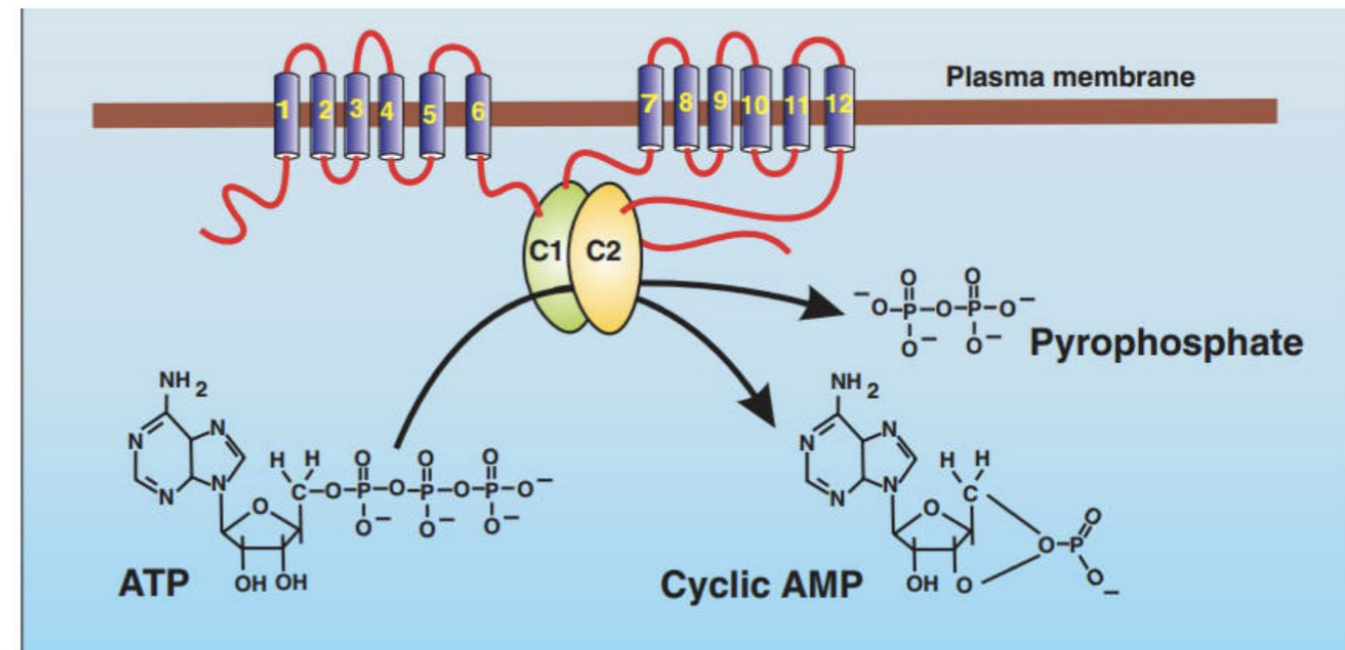
Found at *inhibitory* synapses

GPCR

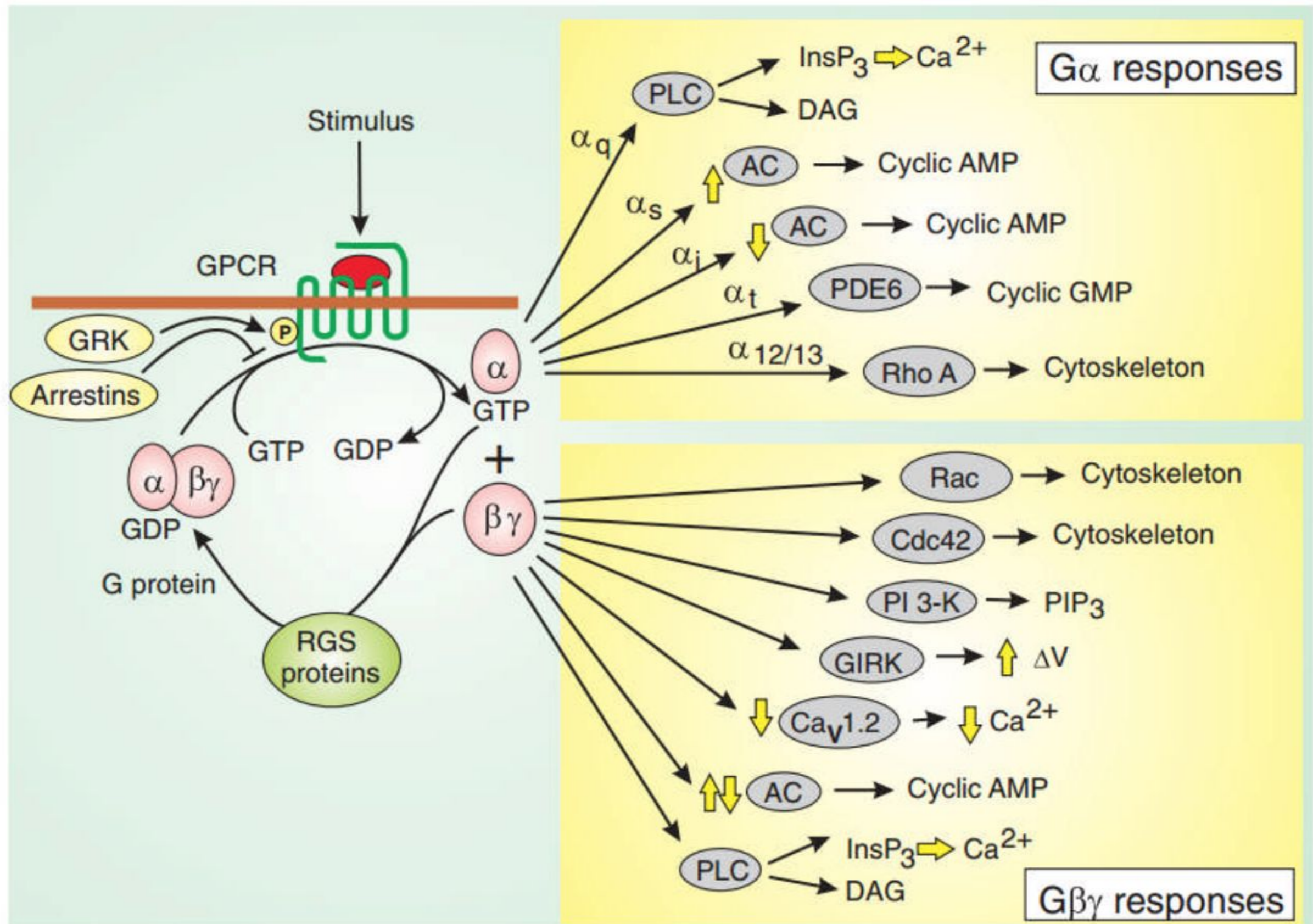


Can be activated by:

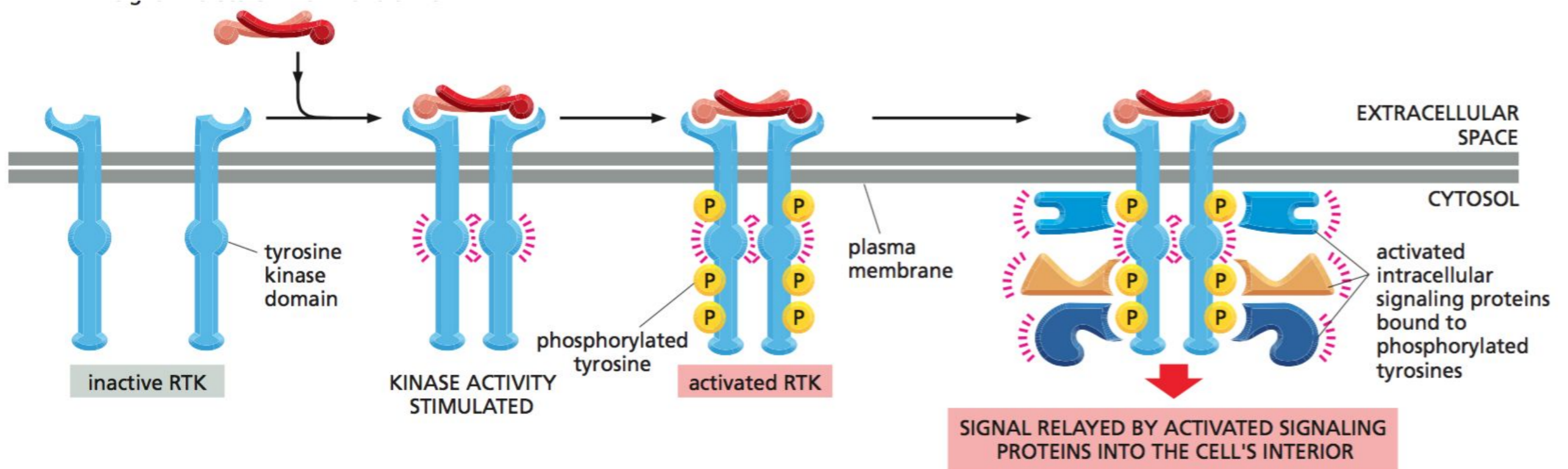
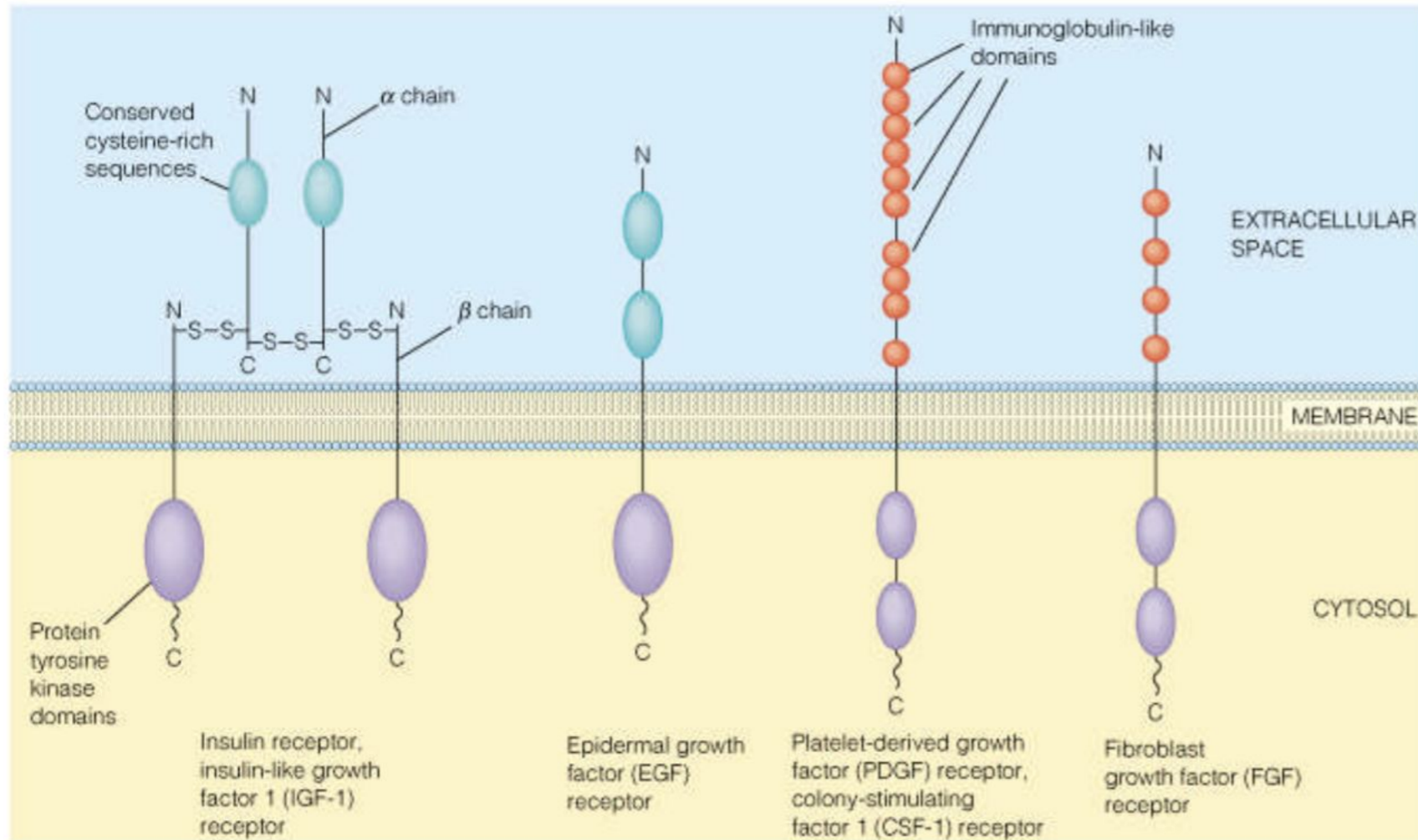
- Neurotransmitters
- Hormones
- Odorants



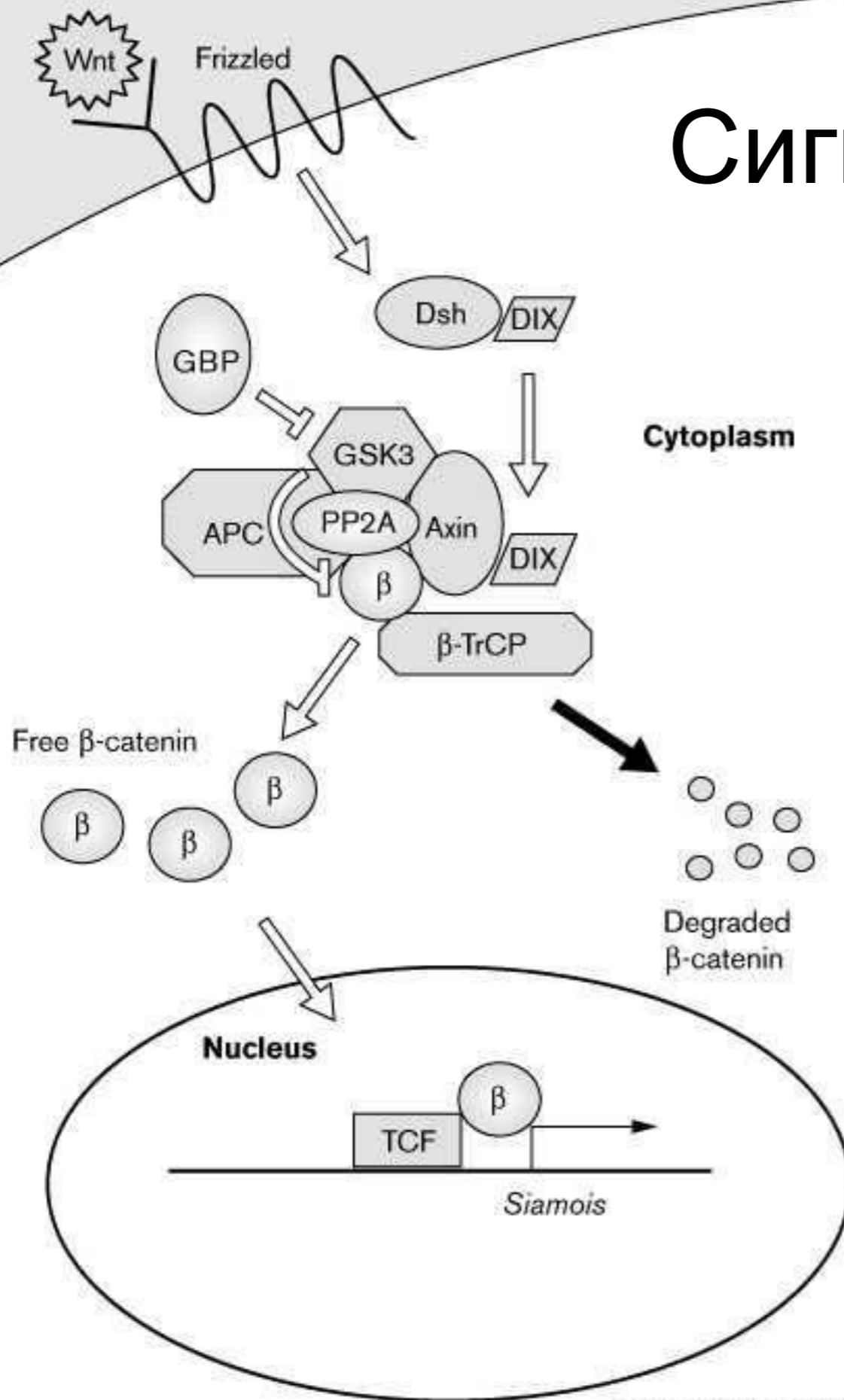
Signalling is via both α and $\beta\gamma$ subunits



Receptor tyrosine kinases



Сигнальный путь Wnt



Один из важнейших сигнальных путей клетки животных

Регулирует эмбриогенез и дифференцировку тканей

Несвоевременная активация вызывает развитие раковых опухолей

Сигнальный путь Wnt: ингибирование в терапевтических целях

