

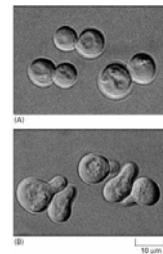
*Programa de Bachillerato  
2010*



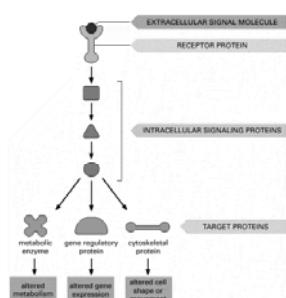
## Receptores de membrana e intracelulares

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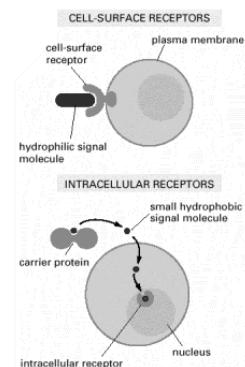
## Comunicación intercelular

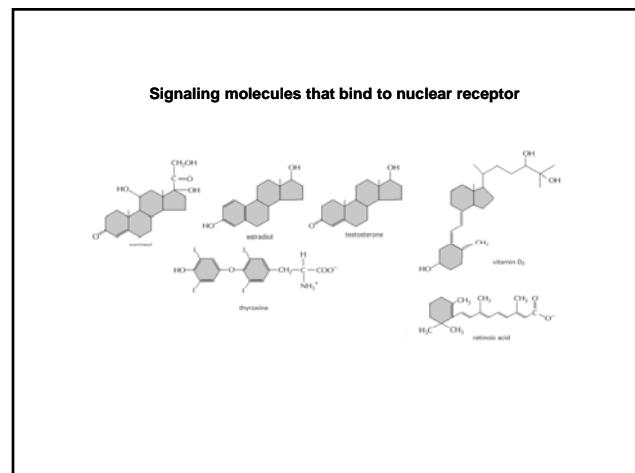
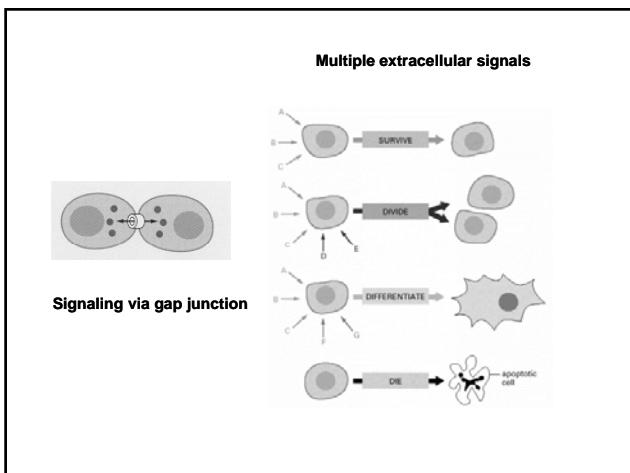
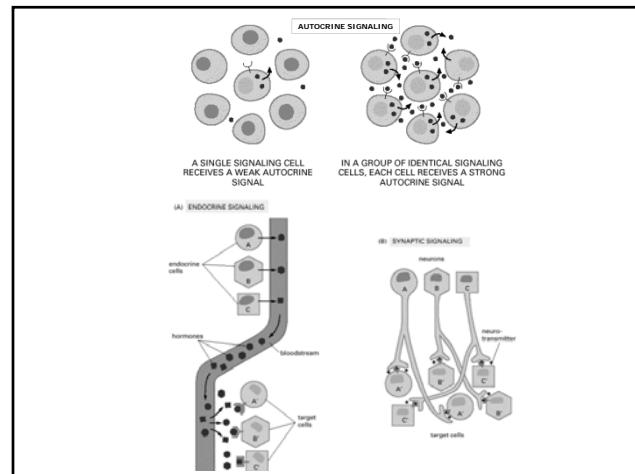
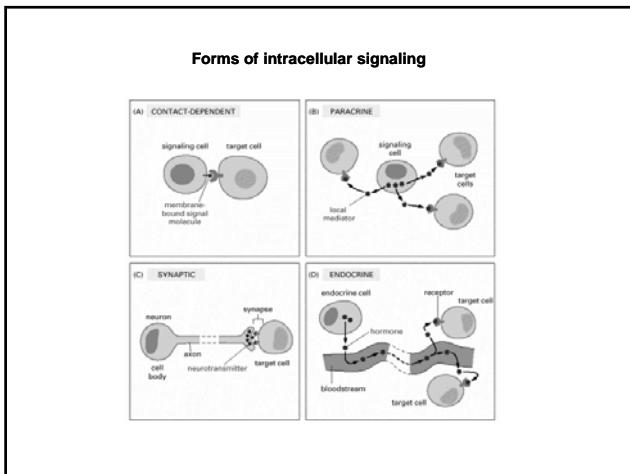


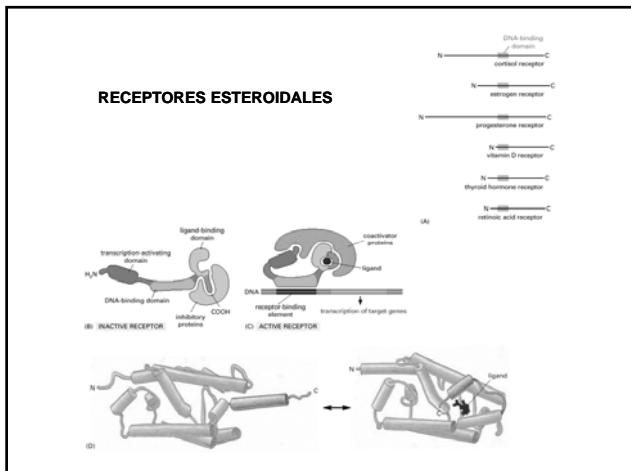
### Signaling pathway activated by an extracellular signal molecule



### Cell-surface receptor or intracellular receptor

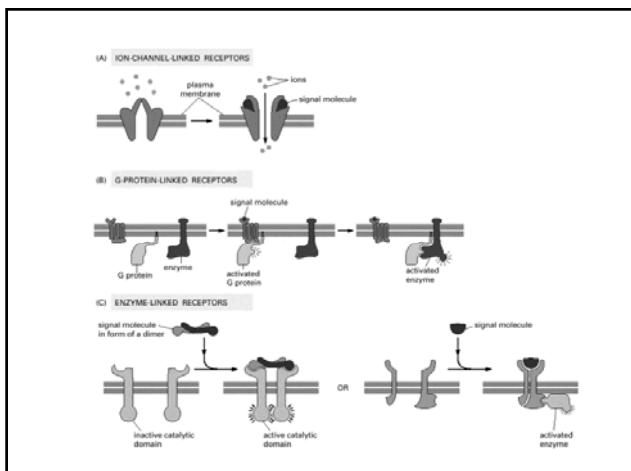




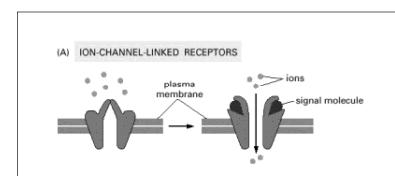


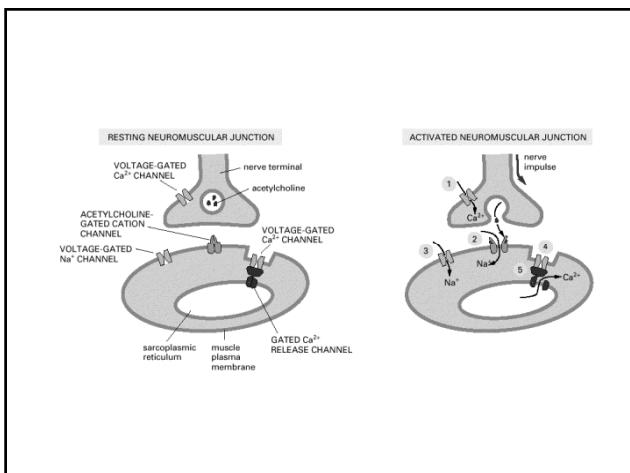
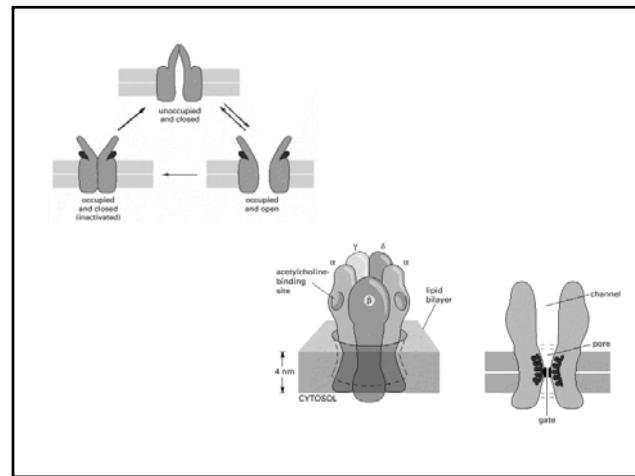
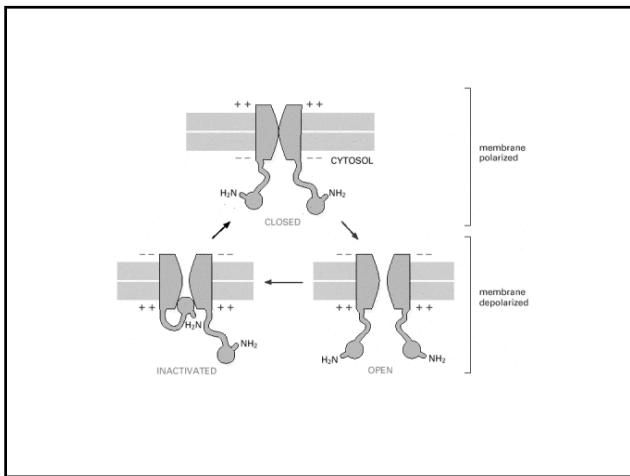
## Clases de proteínas tipo receptores de superficie celular

- Receptores unidos a canales iónicos
- Receptores unidos a proteína G
- Receptores tipo enzima

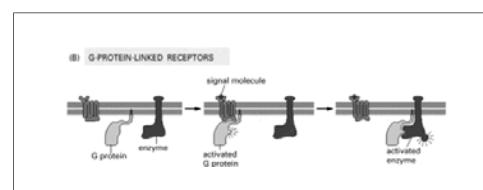


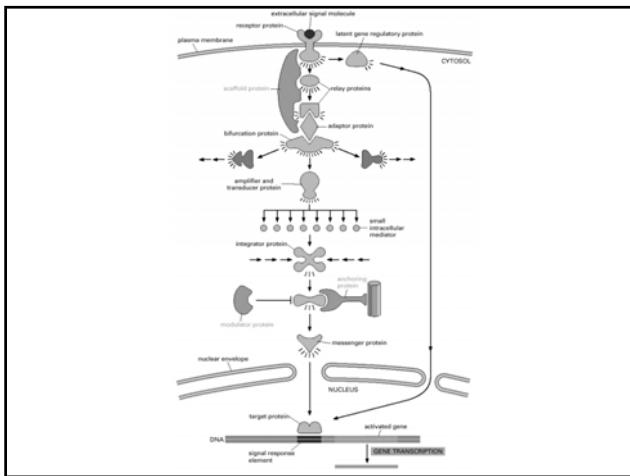
## Receptores unidos a canales iónicos



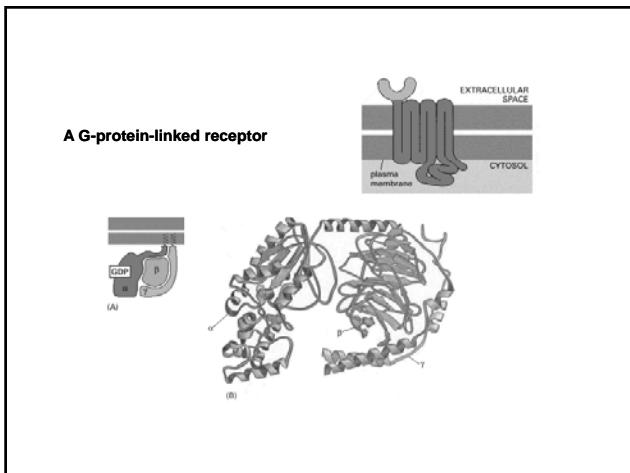
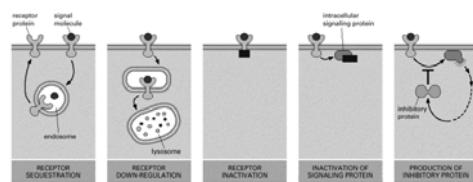


## Receptores unidos a proteína G

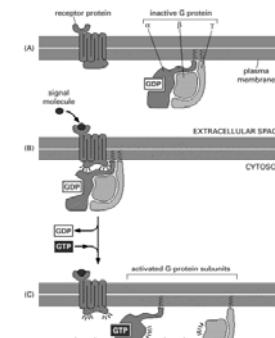


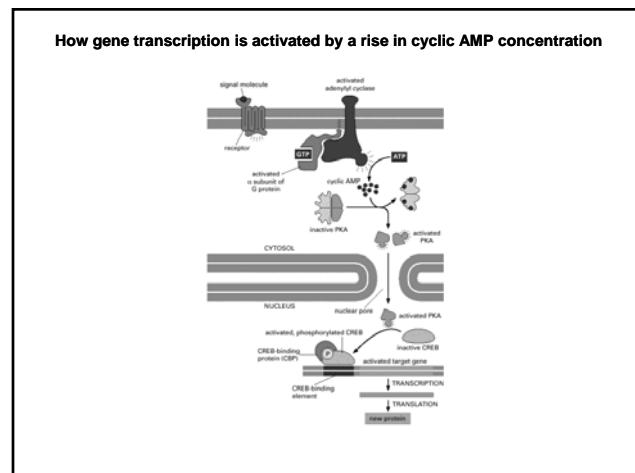
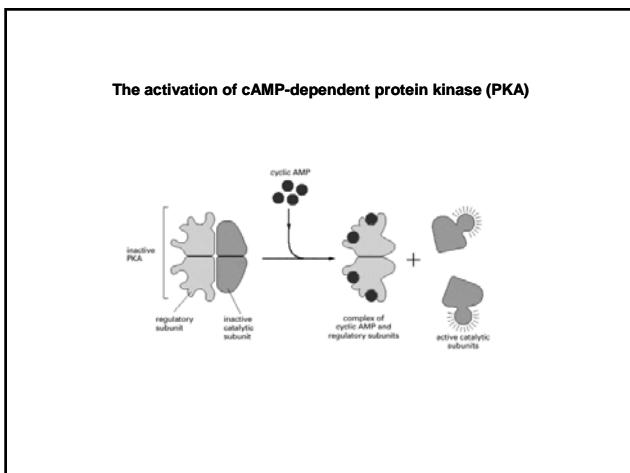
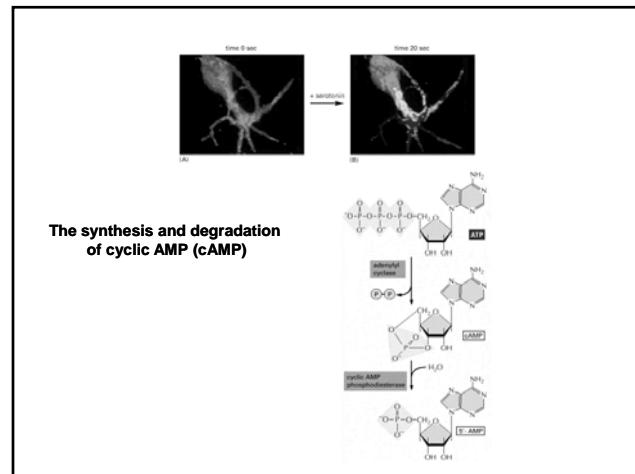
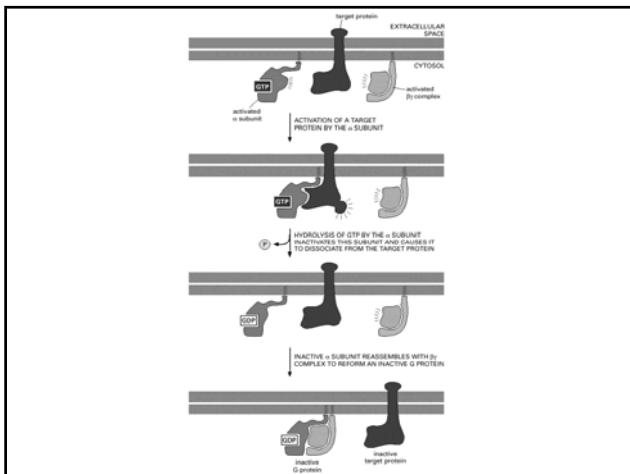


#### Five ways in which target cells can become desensitized to a signal molecule

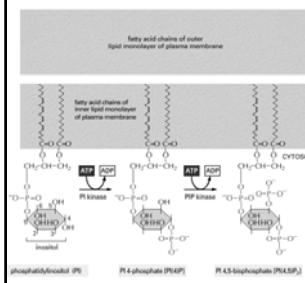


#### The disassembly of an activated G-protein into two signaling components

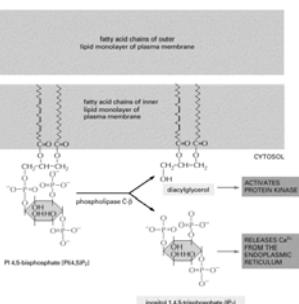




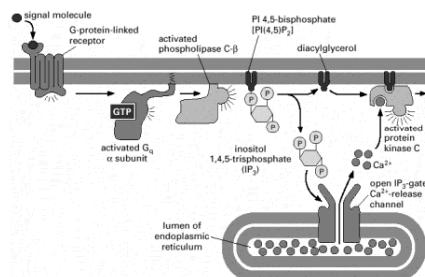
### Three types of inositol phospholipids (phosphoinositides)



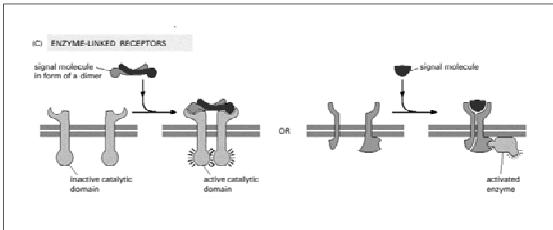
### The hydrolysis of PI(4,5)P<sub>2</sub> by phospholipase C-β



### The inositol phospholipid pathway



### Receptores tipo enzima (Enzyme-linked receptors)



### Receptores tipo enzima (Enzyme-linked receptors)

- Tyrosine kinase receptor
- Tyrosine-kinase-associated receptors
- Receptorlike tyrosine phosphatases
- Receptor serine/threonine kinases
- Receptor guanylyl cyclases
- Histidine-kinase-associated receptor

