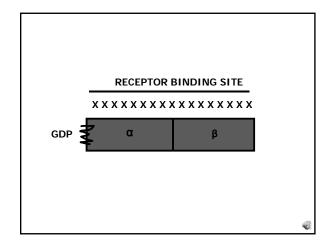


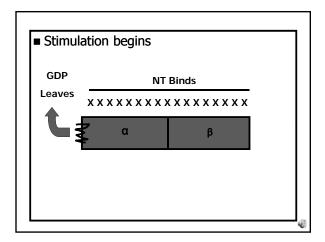
Gs Proteins Sequence

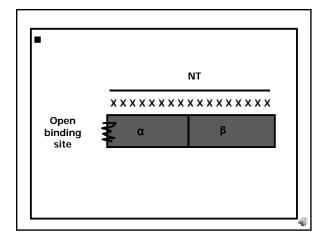
- NT
- Binds to the Receptor
 Causes GDT to leave
- GTP binds Alpha and Beta Subunits dissociate
- Result Free Alpha and Free Beta
 Alpha binds to AC
- Causes AC to make cAMP
- cAMP binds to Regulatory Subunit of PK
- Dissociates the PK
- Free Regulatory and Catalytic subunits
 Catalytic subunit phosphorlates (puts a phosphate group of the channel)

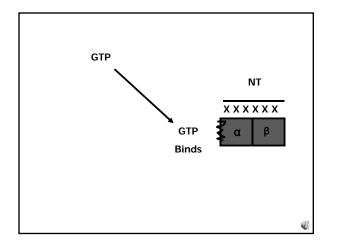
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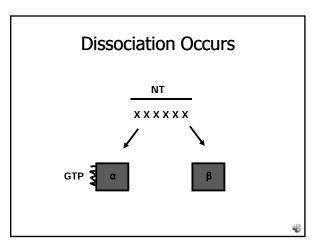
- Ions enter the membrane
- Depolarization

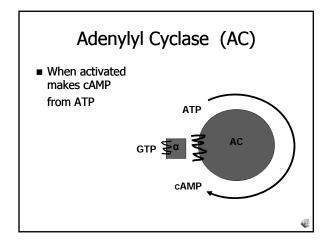


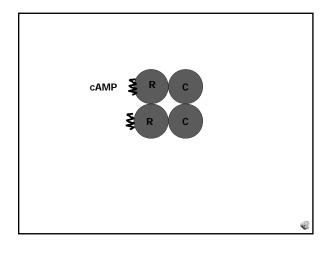


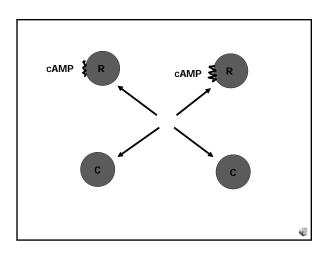


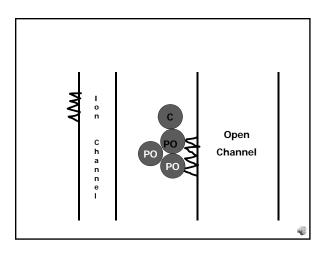


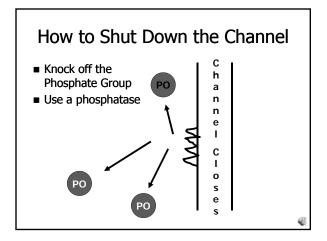


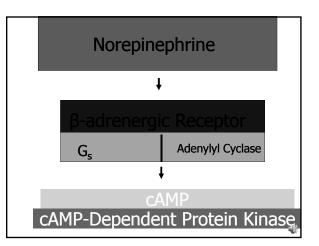


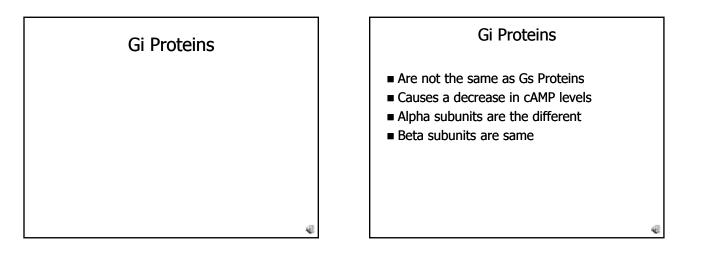








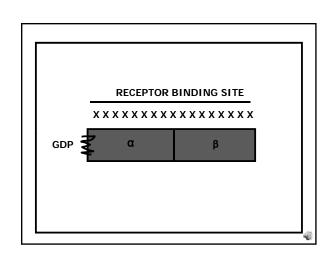


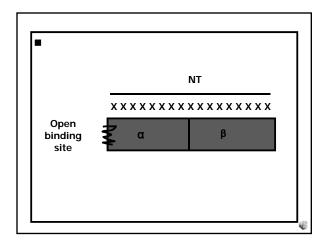


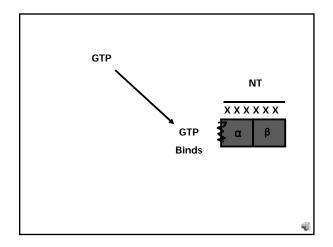
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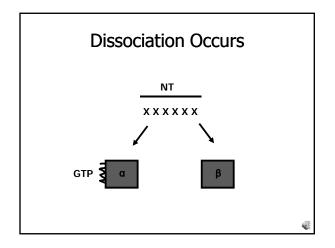
Gi Proteins Sequence

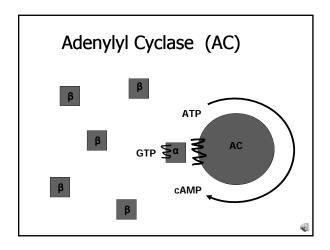
- NT
- Binds to the Receptor
- Causes GDT to leave
- GTP binds Alpha and Beta Subunits dissociate
- Result Free Alpha and Free Beta subunits
- Beta subunits begin to bind with Alpha S subunits
- Begin to decrease the activity of Adenylyl Cyclase
- Decreases cAMP production

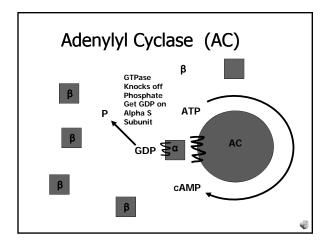


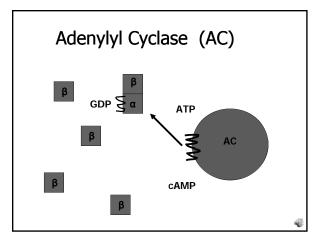


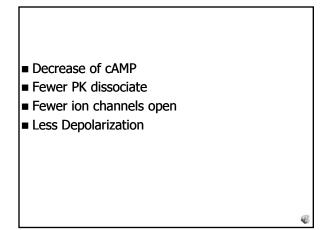


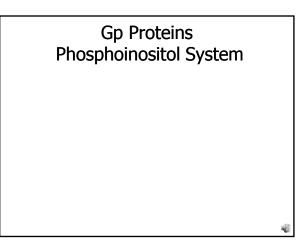


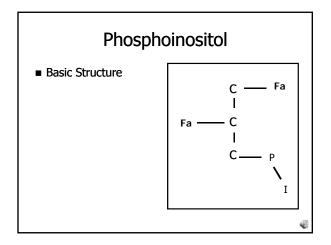


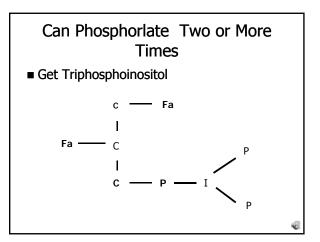






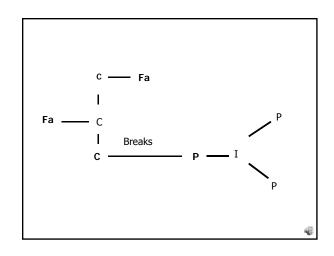


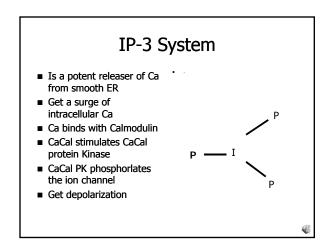


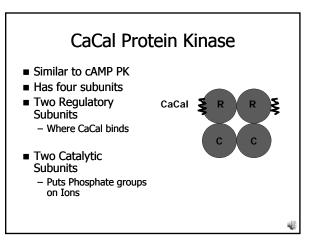


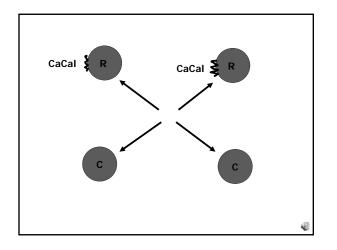
Gp Proteins Sequence NT Binds to the Receptor Causes GDT to leave GTP binds – Alpha P and Beta Subunits dissociate Result – Free Alpha P and Free Beta subunits Alpha P subunit activates Phospholipase C (Has 9 different forms)

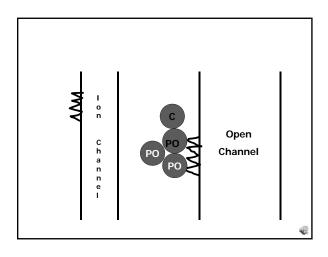
- Phospholipase C splits Triphosphoinositol and breaks it into two groups
- DAG IP-3

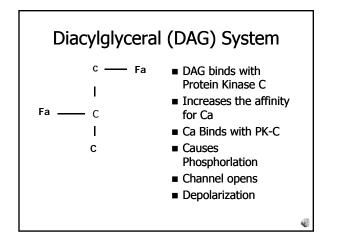


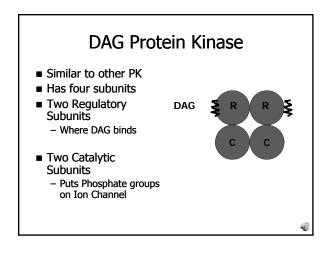


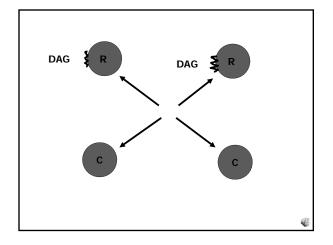


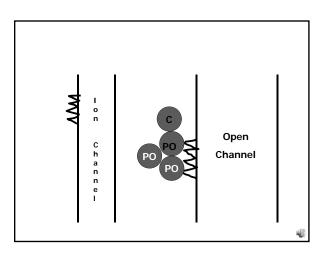


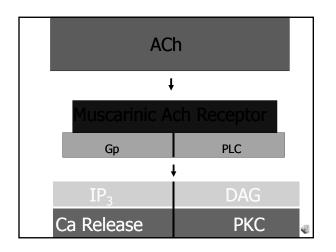


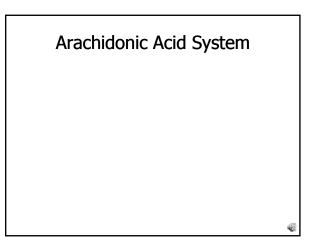


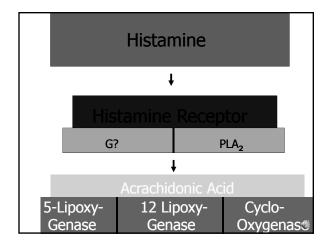




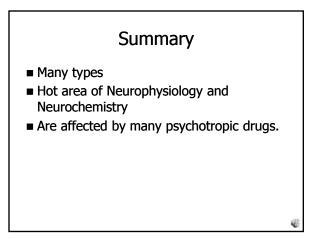








3 Sites of Action but Many More		
5-Lipoxy - Genase	12 Lipoxy - Genase	Cyclo- OxyGenase
Several Active Metabolites	Leukotrienes	Prostaglandins and Thromboxanes
		Inhibited by ASA and nonsteroidal antiinflamatory drugs
		4



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