BIOLOGICAL FRAMEWORKS FOR ENGINEERS

Session #14 [µm: Cell Signaling]

General Objectives:

- ✓ Discuss the structure-function relationships in cell signaling.
- ✓ Examine specific cell signaling mechanisms in major signaling pathways.

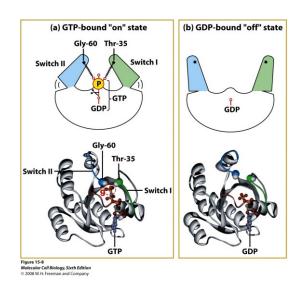
Central Framework:

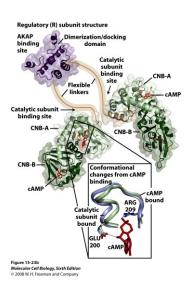
✓ Signaling is a important system regulated by changes in protein structure

Session Outline:

A. G-Protein Coupled Receptors







C. MAP Kinase Pathway

D. Receptor Tyrosine Kinase



Gene Inactivation –

Dominant Negative -

Constitutively Active -

Transfection –

Infection -

Case Study: Rho GTPases

