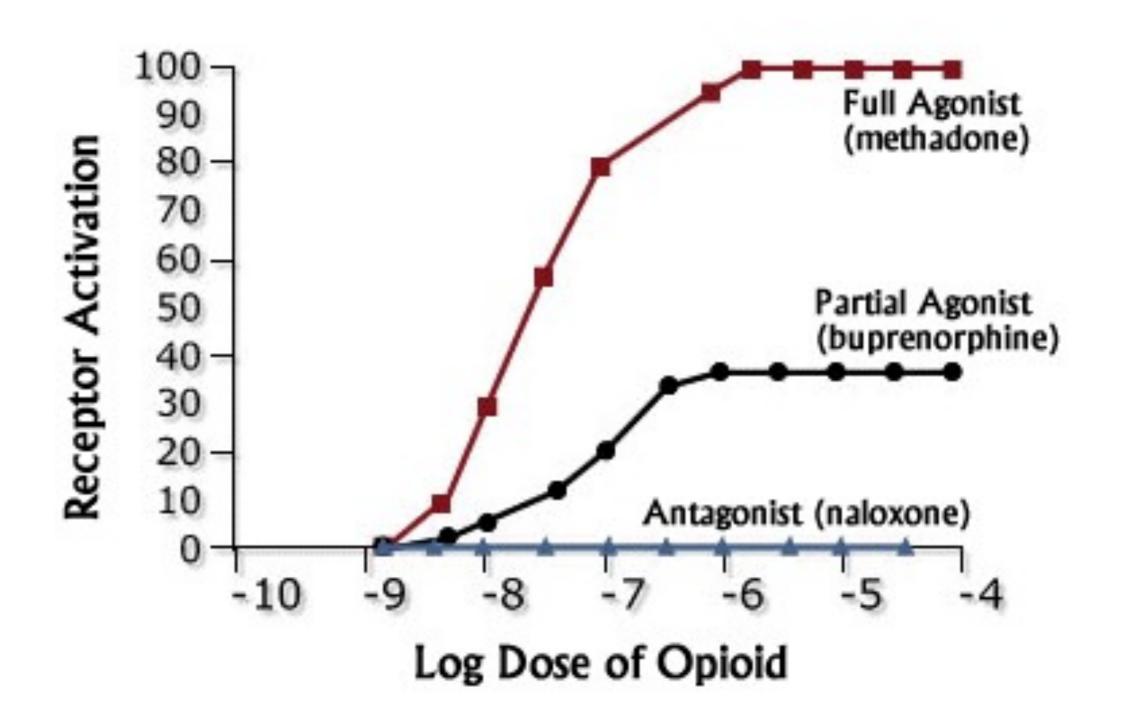
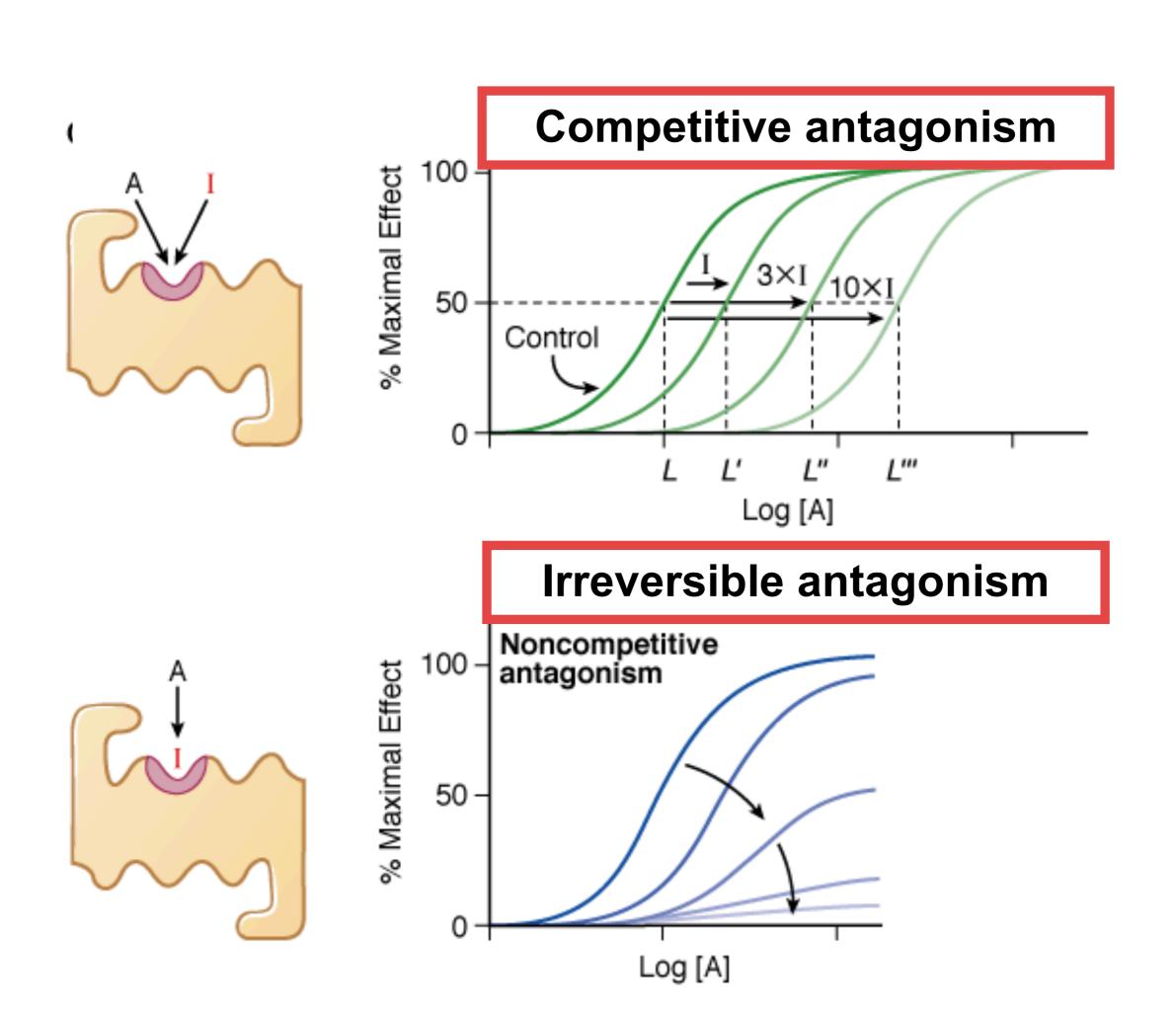
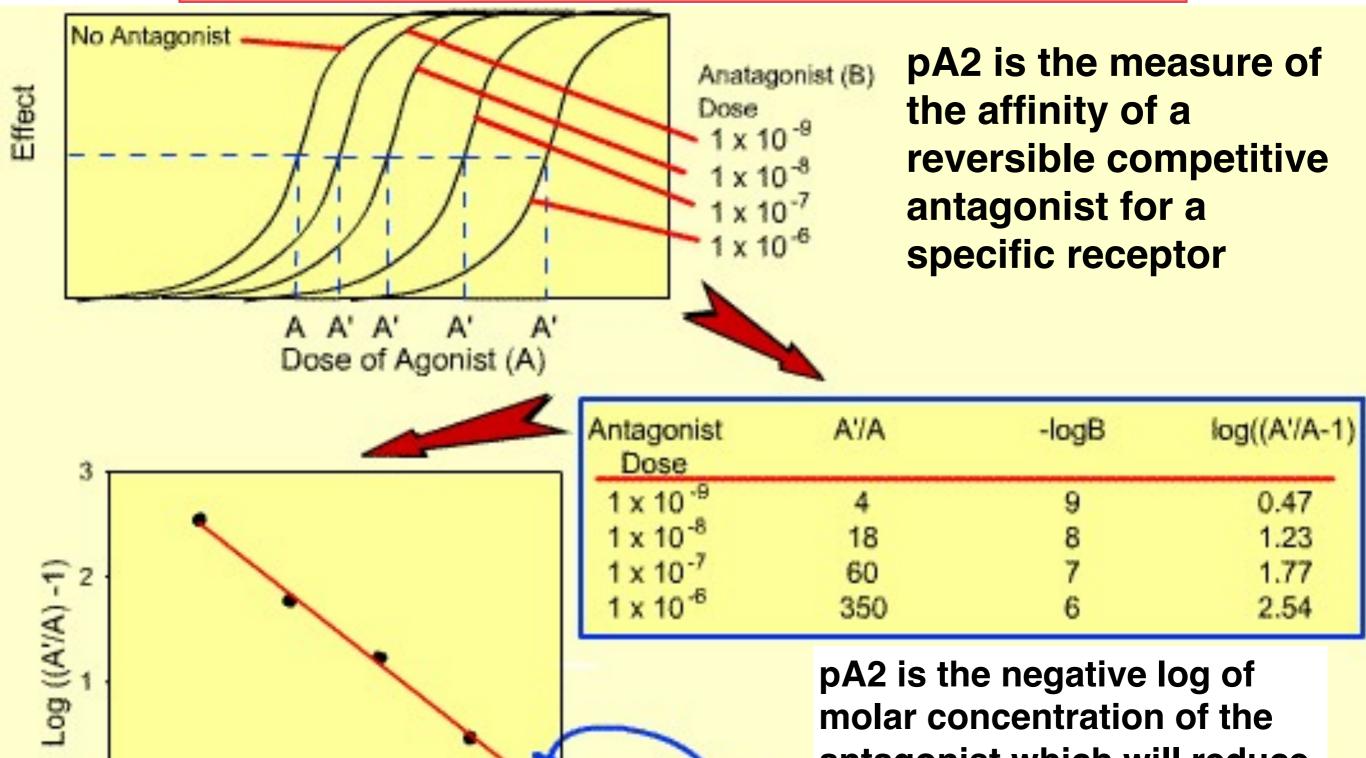
# **Antagonism**



Antagonists have **affinity** but not **efficacy** (alpha = 0)



## Schild Plot for pA2 determination



10

6

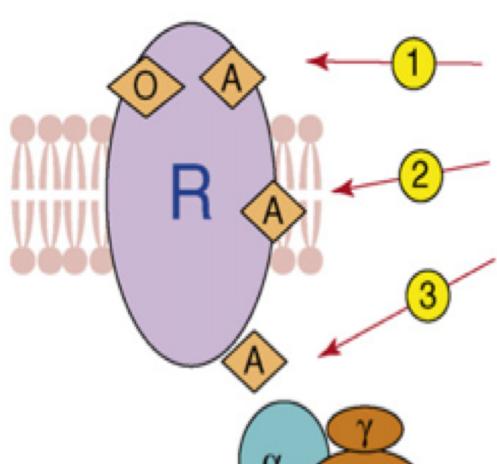
-Log B

pA2 is the negative log of molar concentration of the antagonist which will reduce the effect of double the concentration of the agonist to that of a single dose

### Allosteric ligands



Allosteric site = (A)



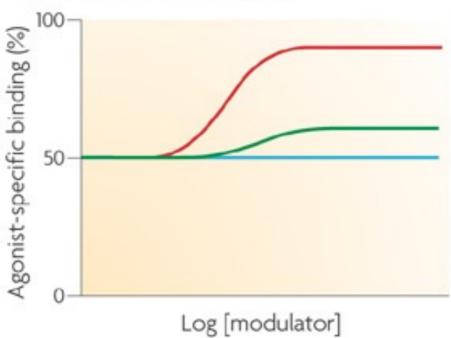
Modulate orthosteric ligand binding

Modulate orthosteric ligand efficacy independent of orthosteric ligand binding or G protein coupling sites

Modulate G protein binding

Allosteric modulators work only in the presence of orthosteric ligand, but don't necessarily alter orthosteric ligand binding Response

# Orthosteric agonist binding



#### Functional response

