

# **DRUG-RECEPTOR INTERACTIONS FORCES INVOLVED**

**PHARMACEUTICAL CHEMISTRY I**

**PHA385**

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**A receptor is a biological molecule  
that yield a biological response  
upon interaction with a drug  
molecule**

**Biological response is produced by the interaction of a drug with a functional or organized group of molecules, which may be called the biologic receptor site.**

# Bonding forces between ligands and receptors

- **Covalent Bonding**

- **Ionic Bonding**

- **Dipole-Dipole Interactions**
  - Hydrogen bonding
  - Charge transfer bonding
  - Hydrophobic bonding
  - Van der Waal's forces