# Wecker: Brody’s Human Pharmacology, 5th Edition

**Chapter 01: Pharmacodynamics: Receptors and Concentration-Response Relationships**

## Test Bank

**Multiple Choice**

1. The majority of medications available today act on which superfamily of cellular membrane receptor?

A. Ligand-gated ion channel

* 1. G-protein-coupled receptor
	2. Receptor tyrosine kinase
	3. Nuclear hormone receptor
	4. Cytokine receptor

ANS: B. The majority of drugs available act on G-protein-coupled receptors.

2. Nalbuphine is an effective pain reliever because of its activity at mu-opioid receptors. However, if given to a patient who has recently received morphine (which also affects mu-opioid receptors) for postoperative pain, nalbuphine can worsen his or her pain. Thus nalbuphine is said to have what kind of activity at mu-opioid receptors?

1. Full agonist
2. Partial agonist
3. Competitive antagonist
4. Non-competitive antagonist
5. Allosteric modifier

ANS: B. Nalbuphine is a partial agonist at opioid receptors.