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
   B. G-protein-coupled receptor
   C. Receptor tyrosine kinase
   D. Nuclear hormone receptor
   E. 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?

   A. Full agonist
   B. Partial agonist
   C. Competitive antagonist
   D. Non-competitive antagonist
   E. Allosteric modifier

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