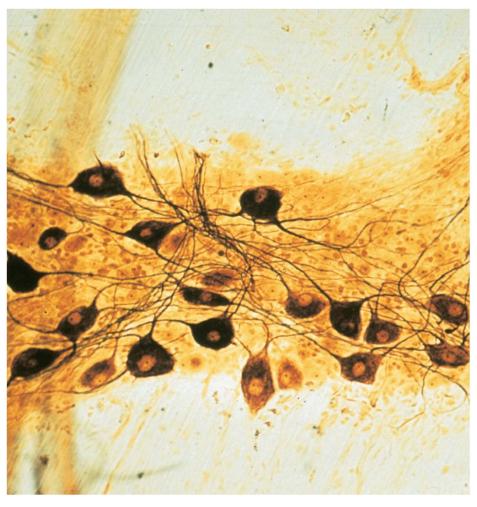


Chapter 15 Drugs and the Nervous System



Drugs and the Nervous System

- neuropharmacology study of effects of drugs on the nervous system
- **sympathomimetics** enhance sympathetic activity
 - stimulate receptors or increase norepinephrine release
 - cold medicines that dilate the bronchioles or constrict nasal blood vessels
- **sympatholytics** suppress sympathetic activity
 - block receptors or inhibit norepinephrine release
 - beta blockers reduce high BP interfering with effects of epinephrine/norepinephrine on heart and blood vessels

Drugs and the Nervous System

- parasympathomimetics enhance activity while parasympatholytics suppress activity
- many drugs also act on neurotransmitters in CNS
 - Prozac blocks reuptake of serotonin to prolong its mood-elevating effect
- caffeine competes with adenosine (the presence of which causes sleepiness) by binding to its receptors

Adenosine and Caffeine

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