

Chapter 4

Psychopharmacology

PSY 312

BARDO

Routes of administration

- Intravenous (IV) injection
- Intraperitoneal (IP) injection
- Intramuscular (IM) injection
- Subcutaneous (SC) injection
- Oral
- Sublingual
- Intrarectal
- Inhalation
- Topical
- Intracerebral
- Intracerebroventricular (ICV)

Drug Effectiveness

- Dose-response curve
- Therapeutic index
- Affinity
- Tolerance
- Sensitization
- Withdrawal symptom
- Placebo

Sites of Drug Action

- Antagonist
- Agonist
- Direct agonist
- Direct antagonist
- Noncompetitive binding
- Indirect antagonist
- Indirect agonist

Acetylcholine

- Acetyl-CoA
- Choline acetyltransferase (ChAT)
- Botulinum toxin
- Black widow spider venom
- Neostigmine
- Nicotinic receptor
- Muscarinic receptor
- Atropine
- Curare

Monoamines

- Catecholamines
- Dopamine
- Norepinephrine
- Indolamines
- Serotonin

Dopamine

- L-Dopa
- Nigrostriatal system
- Mesolimbic system
- Mesocortical system
- Parkinson's disease
- AMPT
- Reserpine
- Methylphenidate
- Monoamine oxidase (MAO)
- Deprenyl
- Chlorpromazine

Norepinephrine

- Fusaric acid
- Locus coeruleus
- Idazoxan
- LSD

Serotonin

- PCPA
- fluoxetine (Prozac)
- fenfluramine

Glutamate

- MDMA
- NMDA receptor
- AMPA receptor
- Kainate receptor
- Metabotropic glutamate receptor
- AP5
- PCP (phencyclidine)

GABA

- Allyglycine
- Muscimol
- Bicuculline
- Benzodiazepine

Glycine

- Strychnine

Peptides

- Endogenous opioid
- Enkephalin
- Naloxone

Lipids

- Endocannabinoid
- Anandamide
- Rimonabant

Nucleosides

- Adenosine
- Caffeine

Soluble gases

- Nitric oxide (NO)
- Nitric oxide synthase