

Table of Content

Rang & Dale's Pharmacology, 8th Edition

Section 1: General principles

1. What is pharmacology?
2. How drugs act: general principles
3. How drugs act: molecular aspects
4. How drugs act: cellular aspects—excitation, contraction and secretion
5. Cell proliferation, apoptosis, repair and regeneration
6. Cellular mechanisms: host defence
7. Method and measurement in pharmacology
8. Drug absorption and distribution
9. Drug metabolism and elimination
10. Pharmacokinetics
11. Pharmacogenetics, pharmacogenomics and 'personalised medicine'

Section 2: Chemical mediators

12. Chemical mediators and the autonomic nervous system
13. Cholinergic transmission
14. Noradrenergic transmission
15. 5-Hydroxytryptamine and the pharmacology of migraine
16. Purines
17. Local hormones: cytokines, biologically active lipids, amines and peptides
18. Cannabinoids
19. Peptides and proteins as mediators
20. Nitric oxide

Table of Content

Section 3: Drugs affecting major organ systems

21. The heart
22. The vascular system
23. Atherosclerosis and lipoprotein metabolism
24. Haemostasis and thrombosis
25. Haemopoietic system and treatment of anaemia
26. Anti-inflammatory and immunosuppressant drugs
27. The respiratory system
28. The kidney
29. The gastrointestinal tract
30. The control of blood glucose and drug treatment of diabetes mellitus
31. Obesity
32. The pituitary and the adrenal cortex
33. The thyroid
34. The reproductive system
35. Bone metabolism

Section 4: The nervous system

36. Chemical transmission and drug action in the central nervous system
37. Amino acid transmitters
38. Other transmitters and modulators
39. Neurodegenerative diseases
40. General anaesthetic agents
41. Analgesic drugs
42. Local anaesthetics and other drugs affecting sodium channels
43. Anxiolytic and hypnotic drugs
44. Antiepileptic drugs

Table of Content

45. Antipsychotic drugs

46. Antidepressant drugs

47. CNS stimulants and psychotomimetic drugs

48. Drug addiction, dependence and abuse

Section 5: Drugs used for the treatment of infections, cancer and immunological disorders

49. Basic principles of antimicrobial chemotherapy

50. Antibacterial drugs

51. Antiviral drugs

52. Antifungal drugs

53. Antiprotozoal drugs

54. Anthelmintic drugs

55. Anticancer drugs

Section 6: Special topics

56. Individual variation and drug interaction

57. Harmful effects of drugs

58. Lifestyle drugs and drugs in sport

59. Biopharmaceuticals and gene therapy

60. Drug discovery and development