

TABLE OF CONTENTS:

1. Routes of Administration
2. Membranes and Drug Action
3. Drug Absorption
4. Drug Transporters in ADME
5. Drug Distribution
6. Drug Metabolism
7. Drug Excretion
8. Pharmacokinetics
9. Receptor-ligand Interaction
10. Molecular Targets for Drug Actions
11. Cell Signaling Pathways
12. Immunopharmacology
13. Drug Toxicity
14. Adverse Drug Reactions
15. Cell Death
16. Pharmacogenomics and Pharmacogenetics
17. Drug Tolerance, Dependence, Addiction
18. Drug Resistance
19. Role of Molecular Biology in Modern Pharmacology
20. Drug Discovery – Sources of New Drugs
21. Drug Development – Pre-clinical
22. Drug Development – Clinical
23. Nutraceuticals
24. The FDA