

General Further Reading

Index

It is recommended that you read round various topics as much as you can. There are strengths and weaknesses in every publication and if you find an explanation difficult to follow in one textbook or article, you may find a clearer one in a different publication. Textbooks also differ in the breadth and detail of coverage given to the various topics of medicinal chemistry. For example, this textbook has chapters concentrating in some detail on topics such as antibacterial, antiviral, and anticancer agents, but does not cover antifungal or antimigraine agents to the same extent. The following are useful reference and general texts. You will also find references to articles and books at the end of each chapter that are more specific to the topics covered in that chapter.

Reference Works

Abraham, D. J., and Myers, M. (2021) *Burger's medicinal chemistry, drug discovery and development*, 8th edn, Vols. 1–8. John Wiley and Sons, New York.

British Medical Association and Royal Pharmaceutical Society of Great Britain. *British national formulary (BNF)* [online and print]. Pharmaceutical Press, London. (twice-yearly publication; March and September)

Chackalamannil, S., Rotella, D., and Ward, S. (eds) (2017) *Comprehensive medicinal chemistry*, 3rd edn, Vols. 1–8. Elsevier Science.

Websites

Electronic Medicines Compendium, <https://www.medicines.org.uk/emc/>
The Association of the British Pharmaceutical Industry, <https://www.abpi.org.uk>

The Merck Index Online, <https://www.rsc.org/merck-index>

The Protein Data Bank, <https://www.rcsb.org>

General Textbooks on Medicinal Chemistry

Brunton, L., and Knollman, B. (eds) (2022) *Goodman and Gilman's the pharmacological basis of therapeutics*, 14th edn. McGraw-Hill, New York.

Jie, J.L. (2015) *Top drugs: history, pharmacology, syntheses*. Oxford University Press, Oxford.

Patrick, G. (2001) *Instant notes: medicinal chemistry*. Bios Scientific, Oxford.

Patrick, G. L. (2015) *An introduction to drug synthesis*. Oxford University Press, Oxford.

Roche, V.F., et al. (eds.) (2019) *Foye's principles of medicinal chemistry*, 8th edn. Wolters Kluwer Health, Philadelphia.

Rostron, C. (2020) *Drug design and development*. Oxford University Press, Oxford.

Silverman, R. B., and Holladay, M.W. (2014) *The organic chemistry of drug design and action*, 3rd edn. Academic Press, San Diego.

Sneader, W. (2005) *Drug discovery: a history*. John Wiley and Sons, Chichester.

Stromgaard, K., Krogsgaard-Larsen, P., and Madsen, U. (eds) (2022) *Textbook of drug design and development*, 5th edn. CRC Press, Florida.

Ward, S., and Davis, A. (eds) (2022) *The handbook of medicinal chemistry: principles and practice*, 2nd edn. Royal Society of Chemistry, London.

Webster, O. (ed) (2017) *Medicinal chemistry: an introduction*. Larsen and Keller, New York.

Wermuth, C. G., et al. (eds) (2015) *The practice of medicinal chemistry*, 4th edn. Academic Press, London.

General Textbooks on Related Areas

Berg, J. M., et al. (2019) *Biochemistry*, 9th edn. W. H. Freeman and Co., New York.

Cairns, D. (2012) *Essentials of pharmaceutical chemistry*, 4th edn. Pharmaceutical Press, London.

Patrick, G. L. (ed) (2020) *The design and synthesis of antimalarial agents: design and mechanism of action*. Elsevier, Oxford.

Ritter, J. M., et al. (2019) *Rang and Dale's pharmacology*, 9th edn. Elsevier–Churchill Livingstone, Edinburgh.

Journals

ACS Chemical Biology

ACS Medicinal Chemistry Letters

ACS Omega

Advances in Drug Research

Advances in Medicinal Chemistry

Annual Reports in Medicinal Chemistry

Antimicrobial Agents and Chemotherapy

Bioconjugate Chemistry

Bioorganic and Medicinal Chemistry

Bioorganic and Medicinal Chemistry Letters

Chemical and Pharmaceutical Bulletins

ChemMedChem

Chemistry in Britain

Current Medicinal Chemistry

Current Opinion in Drug Discovery and Development

Drug Design and Delivery

Drug Discovery Today

Drug News and Perspectives

Drugs

Drugs of the Future

Drugs Today

European Journal of Medicinal Chemistry

Future Medicinal Chemistry

Journal of Combinatorial Chemistry

Journal of Computational Chemistry

Journal of Computer-aided Molecular Design

Journal of Medicinal Chemistry

- MedChemComm
- Medicinal Chemistry Research
- Medicinal Research Reviews
- Molecular Pharmaceutics
- Nature
- Nature Reviews Drug Discovery
- Organic Process Research and Development
- Pharmacochemistry Library

- Proceedings of the National Academy of Sciences of the United States of America
- Progress in Drug Research
- Progress in Medicinal Chemistry
- QSAR
- Science
- Scientific American
- Trends in Pharmacological Sciences

Ward, S., and Davis, A. (eds) (2022) The handbook of medicinal chemistry: principles and practice, 2nd edn. Royal Society of Chemistry, London.

Wentworth, D. G. (ed) (2015) The practice of medicinal chemistry, 2nd edn. Academic Press, London.

VEGF see Vascular endothelial growth factor

VEGFR see Vascular endothelial growth factor receptor

Wentworth, D. G. (ed) (2015) The practice of medicinal chemistry, 2nd edn. Academic Press, London.

Zinc finger domains

General Textbooks on Related Areas

Beck, J. M. et al. (2019) Biochemistry, 9th edn. W. H. Freeman and Co., New York.

Cairns, D. (2012) Essentials of pharmaceutical chemistry, 4th edn. Pharmaceutical Press, London.

Partridge, G. D. (ed) (2019) The medicinal chemistry of drugs, 2nd edn. Elsevier, Oxford.

Ritter, J. M. et al. (2019) Rang and Dale's pharmacology, 9th edn. Elsevier, Churhill Livingstone, Edinburgh.

Chabala, M. J., and Ward, S. (eds) (2017) Comprehensive medicinal chemistry, 3rd edn, Vols 1-8. Elsevier Science (September).

Alabaster, D. J., and Mee, M. (2011) Biogenics medicinal chemistry: drug discovery and development, 8th edn, Vols 1-8. John Wiley and Sons, New York.

Journals

- ACS Chemical Biology
- ACS Medicinal Chemistry Letters
- ACS Omega
- Advances in Drug Research
- Advances in Medicinal Chemistry
- Annual Reports in Medicinal Chemistry
- Antimicrobial Agents and Chemotherapy
- Bioconjugate Chemistry
- Bioorganic and Medicinal Chemistry
- Bioorganic and Medicinal Chemistry Letters
- Chemical and Pharmaceutical Bulletin
- ChemMedChem
- Chemistry in Britain
- Current Medicinal Chemistry
- Current Opinion in Drug Discovery and Development
- Drug Design and Delivery
- Drug Discovery Today
- Drug News and Perspectives
- Drugs
- Drugs of the Future
- Drugs Today
- European Journal of Medicinal Chemistry
- Future Medicinal Chemistry
- Journal of Combinatorial Chemistry
- Journal of Computational Chemistry
- Journal of Computer-aided Molecular Design
- Journal of Medicinal Chemistry

The Protein Data Bank, <https://www.rcsb.org>

The Merck Index Online, <https://www.merck-index.com>

The Association of the British Pharmaceutical Industry, <https://www.abpi.org.uk>

Electronic Medicines Compendium, <https://www.medicines.org.uk/emc>

General Textbooks on Medicinal Chemistry

- Brinton, L., and Knollman, B. (eds) (2022) Goodman and Gilman's: the pharmacological basis of therapeutics, 14th edn. McGraw-Hill, New York.
- Lee, J. L. (2012) Top drugs: history, pharmacology, synthesis. Oxford University Press, Oxford.
- Patrick, G. (2001) Instant notes: medicinal chemistry. Bios Scientific, Oxford.
- Patrick, G. J. (2012) An introduction to drug synthesis. Oxford University Press, Oxford.
- Roche, V. E. et al. (eds) (2019) Five's principles of medicinal chemistry, 8th edn. Wolters Kluwer Health, Philadelphia.
- Roston, C. (2020) Drug design and development. Oxford University Press, Oxford.
- Silverman, R. B., and Holladay, M. W. (2014) The organic chemistry of drug design and action, 3rd edn. Academic Press, San Diego.