



# Essentials of Chemical Biology: Structure and Dynamics of Biological Macromolecules

*Andrew D. Miller, Julian Tanner*

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*“This excellent work fills the need for an upper-level graduate course resource that examines the latest biochemical, biophysical, and molecular biological methods for analyzing the structures and physical properties of biomolecules... This reviewer showed [the book] to several of his senior graduate students, and they unanimously gave the book rave reviews. **Summing Up:** Highly recommended...” CHOICE*

Chemical biology is a rapidly developing branch of chemistry, which sets out to understand the way biology works at the molecular level. Fundamental to chemical biology is a detailed understanding of the syntheses, structures and behaviours of biological macromolecules and macromolecular lipid assemblies that together represent the primary constituents of all cells and all organisms. The subject area of chemical biology bridges many different disciplines and is fast becoming an integral part of academic and commercial research.

This textbook is designed specifically as a key teaching resource for chemical biology that is intended to build on foundations lain down by introductory physical and organic chemistry courses. This book is an invaluable text for advanced undergraduates taking biological, bioorganic, organic and structural chemistry courses. It is also of interest to biochemists and molecular biologists, as well as professionals within the medical and pharmaceutical industry.

## Key Features:

- A comprehensive introduction to this dynamic area of chemistry, which will equip chemists for the task of understanding and studying the underlying principles behind the functioning of biological macro molecules, macromolecular lipid assemblies and cells.
- Covers many basic concepts and ideas associated with the study of the interface between chemistry and biology.
- Includes pedagogical features such as: key examples, glossary of equations, further reading and links to websites.
- Clearly written and richly illustrated in full colour.

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