

Biomedical Chemistry

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Biomedical Chemistry

Applying Chemical
Principles to the
Understanding and
Treatment of Disease

Edited by

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How basic chemical ideas help advance the understanding and treatment of disease Biomedical Chemistry presents clear, concise coverage of the application of chemistry to drug discovery and determination of disease etiology, highlighting its role in the explosive growth of biotechnology and molecular biology. Through expert contributions from leading researchers in diverse fields, the book provides readers with an understanding of how fundamental chemical concepts are used in the development of novel approaches to the major problems in medicine today. The authors explain both the science and reasoning underlying each experimental approach, exploring cutting-edge developments in AIDS, cancer, alcoholism, Parkinson's disease, trypanosomiasis, emphysema, and malaria. Contemporary research problems discussed include:

- * Mechanism-based drug discovery
- * Design of new antitumor and antiviral agents
- * Targeting tumors using magnetic drug delivery
- * Antisense and antigene agents

Easily accessible to anyone with a solid undergraduate background in chemistry, Biomedical Chemistry is an excellent resource for researchers in health-related fields as well as anyone seeking an overview of frontier topics in medicinal chemistry, organic chemistry, and biochemistry.

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