

An authoritative look at the application of chemical biology in drug discovery and development

Based on the award-winning *Wiley Encyclopedia of Chemical Biology* published in 2008, this book explores the role of chemical biology in drug discovery and development. The first part of the book reviews key principles and techniques used in the design and evaluation of drug candidates. The second part elucidates biological mechanisms of certain diseases, illuminating approaches to investigate and target these diseases.

Comprising carefully selected reprints from the *Encyclopedia* as well as new contributions from leading scholars in the field, this book provides researchers in academia and industry with important information to aid in the development of novel agents to treat disease. Self-contained articles cover a variety of essential topics, including:

- The design, development, and optimization of drug candidates
- The pharmacokinetics and properties of drugs
- Drug transport and delivery
- Natural products and natural product models as pharmaceuticals
- Biological mechanisms underlying health and disease
- Treatment strategies for a range of diseases, from HIV to schizophrenia

Chemical Biology is a top-notch guide and reference for anyone working in the areas of drug discovery and development, including researchers in chemical biology and other fields such as biochemistry, medicine, and pharmaceutical sciences.

NATANYA CIVJAN, PhD, is a freelance editor with a doctorate in biochemistry. Formerly with John Wiley & Sons, she developed and edited the *Wiley Encyclopedia of Chemical Biology* and was part of the team responsible for the *Wiley Interdisciplinary Reviews*, which won top prizes in publishing from the American Publishers Awards for Professional and Scholarly Excellence.

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