



# Strategies for Organic Drug Synthesis and Design

By Daniel Lednicer

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This book examines and evaluates the strategies utilized to design and synthesize pharmaceutically active agents. Significant updates over the last 10 years since the publication of the 1st edition include synthesis of enantiomerically pure isomers, novel chemical methodologies, and new pharmaceutical agents targeted at novel biological endpoints. Written by an experienced successful author, this book meets the needs of a growing community of researchers in pharmaceutical R &D, as well as medical professionals, by providing a useful guide for designing and synthesizing pharmaceutical agents. Additionally, it is a useful text for medicinal chemistry students.

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### Editorial Review

#### Review

?In this book, Lednicer presents a detailed discussion of strategies toward the synthesis of pharmaceutical compounds. . . The strength of the book is the wealth of data collected in one relatively short tone?.

#### From the Back Cover

#### **Your Blueprint for Successful Drug Synthesis and Design**

Guiding readers through tested-and-proven strategies for designing and conducting drug synthesis, this *Second Edition* features the latest developments in the field, including new examples of drug synthesis from major pharmaceutical companies. Examples are selected from the multivolume work, titled *The Organic Chemistry of Drug Synthesis*. This new, expanded edition focuses on the organic chemistry used for drug preparation. Drugs have been selected based on the illustrative value of the chemistry used for their synthesis. Structures in chemical schemes have been carefully drawn to clarify individual reactions.

Brief discussions of medicinal chemistry provide readers with a snapshot of the activity and the mechanism of action of various drugs. Salient principles of drug action are presented in capsule form at appropriate points. In addition, the claimed therapeutic effects of each pharmaceutical agent are noted along with the discussion of its preparation.

*Strategies for Organic Drug Synthesis and Design* has been updated with a host of new drugs, including drugs that address new therapeutic areas and drugs developed with the use of novel chemistry. These include:

- Tubulin Inhibitors (Taltobulin)
- Antimalarial artemlene
- Neuraminidase Antivirals (Zanamavir, Oseltamavir, and Peramavir)
- COX-2 Inhibitor NSAIDs (Celecoxib, Cimicoxib, and Valdecoxib)

Written by an experienced and successful author and pharmaceutical scientist, this book meets the needs of the growing community of researchers in pharmaceutical R&D as well as medical professionals who need to understand the design and synthesis of pharmaceutical agents. It is also recommended as a graduate-level medicinal chemistry textbook.

#### About the Author

**Daniel Lednicer, PhD**, is the acclaimed author of several books on drug synthesis and discovery. His career has been devoted to the search for new therapeutic agents. Dr. Lednicer spent two decades at the bench as a chemist at the Upjohn Company. He has also served as director of chemical research at Mead Johnson, director of pharmaceutical sciences at Adria Laboratories, and pharmaceutical manager at Analytical Biochemistry Laboratories. Most recently, he was a project officer at the National Cancer Institute.

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