



Case Studies in Modern Drug Discovery and Development

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Learn why some drug discovery and development efforts succeed . . . and others fail

Written by international experts in drug discovery and development, this book sets forth carefully researched and analyzed case studies of both successful and failed drug discovery and development efforts, enabling medicinal chemists and pharmaceutical scientists to learn from actual examples. Each case study focuses on a particular drug and therapeutic target, guiding readers through the drug discovery and development process, including drug design rationale, structure-activity relationships, pharmacology, drug metabolism, biology, and clinical studies.

Case Studies in Modern Drug Discovery and Development begins with an introductory chapter that puts into perspective the underlying issues facing the pharmaceutical industry and provides insight into future research opportunities. Next, there are fourteen detailed case studies, examining:

- All phases of drug discovery and development from initial idea to commercialization
- Some of today's most important and life-saving medications
- Drugs designed for different therapeutic areas such as cardiovascular disease, infection, inflammation, cancer, metabolic syndrome, and allergies
- Examples of prodrugs and inhaled drugs
- Reasons why certain drugs failed to advance to market despite major research investments

Each chapter ends with a list of references leading to the primary literature. There are also plenty of tables and illustrations to help readers fully understand key concepts, processes, and technologies.

Improving the success rate of the drug discovery and development process is paramount to the pharmaceutical industry. With this book as their guide, readers can learn from both successful and unsuccessful efforts in order to apply tested and proven science and technologies that increase the probability of success for

new drug discovery and development projects.

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Editorial Review

Review

“This book will enrich the collection of medicinal chemists or pharmacologists involved in active drug discovery research, as well as students with a passion for pursuing a career in drug discovery.” (*Doody's*, 22 February 2013)

“A well-made glossary is available in the appendix, which defines the dozens of terms that a medicinal chemist will encounter in his/her career. . . . This book demonstrates yet again the need for new, better medicines and the reasons for the high cost of drug research. An enjoyable read!.” (*ChemMedChem*, 1 January 2013)

About the Author

Xianhai Huang, PhD, is a Principal Scientist at Merck Research Laboratories. Dr. Huang is the inventor or co-inventor on more than forty patents and patent applications. As a mentor in the Schering-Plough chemistry postdoctoral program, Dr. Huang and his group discovered novel synthetic applications of (diacetoxyiodo) benzene and successfully applied the methodology to the total synthesis of psymberin, an antitumor natural product.

Robert G. Aslanian, PhD, is an adjunct professor of chemistry at William Paterson University and was formerly a Senior Director of Medicinal Chemistry with the Schering-Plough Research Institute and Merck Research Laboratories. Dr. Aslanian has over twenty-five years of experience in the pharmaceutical industry. He is co-inventor on thirty-eight U.S. patents and coauthor on sixty-seven scientific articles and reviews.

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