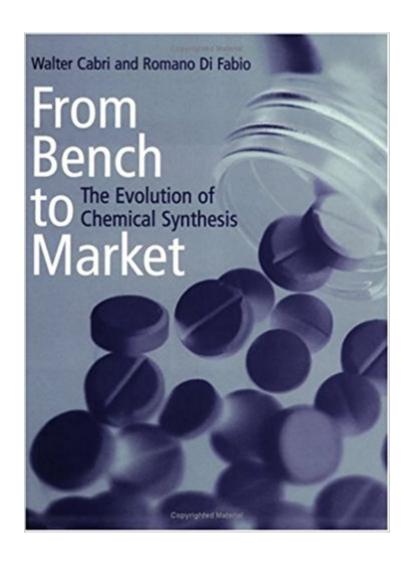


The book was found

From Bench To Market: The Evolution Of Chemical Synthesis





Synopsis

Who wins the race to turn molecules into medicines? How much does it cost? What factors influence the choice of synthetic routes and reaction mechanisms? How can pharmaceutical companies protect their discoveries? In From Bench to Market, Walter Cabri and Romano Di Fabio chart the process of industrial chemical synthesis, from the first discovery of a molecule, or 'new chemical entity', to its entry in the marketplace as a drug. They discuss all aspects related to the process research for bulk production, including comparison between different synthetic routes, key methodologies and reaction mechanisms, costs, patent competition, and crystalline forms. The authors use the real chemical history of the development of drugs from several therapeutic areas as detailed case studies, each chosen to illustrate a range of issues and methodologies in industrial chemistry. Several chapters cover the development of the various A -lactam antibiotics; two chapters describe the discovery and synthesis of the anticancer drugs Idarubicin and Paclitaxal; in another chapter, the synthesis of the anti-viral drug Acyclovir and the 'patent war' that resulted are explored. The technical, practical, and strategic information gathered here make this essential reading for graduate and undergraduate chemists intending to work in the pharmaceutical industry, as well as for industrial chemists themselves. Lecturers teaching courses in medicinal and organic chemistry will also find it useful.

Book Information

Paperback: 288 pages

Publisher: Oxford University Press; 1 edition (December 28, 2000)

Language: English

ISBN-10: 0198503830

ISBN-13: 978-0198503835

Product Dimensions: 7.1 x 0.5 x 9.3 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,209,990 in Books (See Top 100 in Books) #82 in Books > Medical Books >

Pharmacology > Product Development #658 in Books > Textbooks > Medicine & Health

Sciences > Medicine > Basic Sciences > Toxicology #1107 in Books > Medical Books >

Pharmacology > Toxicology

Customer Reviews

"The authors have been personally involved in several of the processes described and in all cases it

is clear that they are able to draw extensively upon experience gained wit some of the pre-eminent PR&DC groups, both in Italy and internationally... In all cases the authors present a very comprehensive and detailed account of the chemical challenges... An extraordinary range of chemistry is covered in great depth, including information about yield, purity and solvents used, as well as isolation methods... The first and concluding chapters of this book provide a perfect overview to the context and future perspective of modern PR&DC... I found this book to be a thoroughly enjoyable read and it should appeal to all practicing synthetic, organic and medicinal chemists... it should prove to be inspirational reading for PhD and BSC chemists alike."--Dr. David M Andrews, Journal of Pharmacy and Pharmacology

Walter Cabri, R+D Director, Research and Development, Antibioticos, Rodano, Italy wcabri@antibioticos.it Romano Di Fabio, Head of CNS Medicinal Chemistry, Medicines and Research Centre, Glaxo- Wellcome, Verona, Italy rdf26781@glaxowellcome.co.uk

Download to continue reading...

From Bench to Market: The Evolution of Chemical Synthesis Don't Put Me In, Coach: My Incredible NCAA Journey from the End of the Bench to the End of the Bench New Zealand from Bench to Bench Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Investing for Beginners: An Introduction to the Stock Market, Stock Market Investing for Beginners, An Introduction to the Forex Market, Options Trading Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B The Organic Chemistry of Drug Synthesis. Volume 3 (Organic Chemistry Series of Drug Synthesis) Landmarking and Segmentation of 3D CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu) The Synthesis and the Physical and Chemical Aspects of the Pyrrole Ring, Volume 48, Part 1, Pyrroles Enantioselective Chemical Synthesis: Methods, Logic, and Practice Analysis, Synthesis and Design of Chemical Processes (3rd Edition) 3rd edition by Turton, Richard, Bailie, Richard C., Whiting, Wallace B., Sh. (2009) Hardcover Inventing Chemistry: Herman Boerhaave and the Reform of the Chemical Arts (Synthesis) Chemical Approaches to the Synthesis of Peptides and Proteins (New Directions in Organic & Biological Chemistry) Chemical Synthesis of Nucleoside Analogues Analysis, Synthesis and Design of Chemical Processes (3rd Edition) 3rd (third) Edition by Turton, Richard, Bailie, Richard C., Whiting, Wallace B., Sh [2009] Songwriter's Market 40th Edition: Where & How to Market Your Songs Meltdown: A Free-Market Look at Why the Stock Market Collapsed, the

Economy Tanked, and Government Bailouts Will Make Things Worse Demographics and the Stock Market Crash of 2015 - 2018: Baby Boomer Retirement and How to Survive the Stock Market Crash and The Coming Economic Depression (WDS: World Demographics Series) Stock Market: Picking winners in the Stock Market: A guide to buying the right companies at the right time

Contact Us

DMCA

Privacy

FAQ & Help