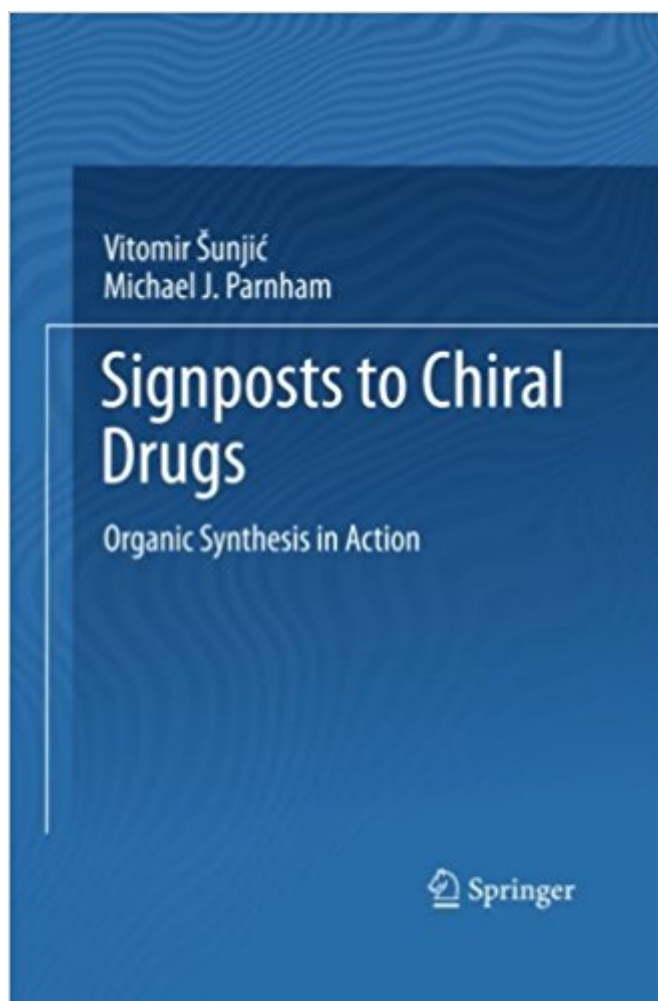


The book was found

# Signposts To Chiral Drugs: Organic Synthesis In Action



## Synopsis

Highlighting 15 selected chiral structures, which represent candidate or marketed drugs, and their chemical syntheses, the authors acquaint the reader with the fascinating achievements of synthetic and medicinal chemistry. The book starts with an introduction treating the discovery and development of a new drug entity. Each of the 15 subsequent chapters presents one of the target structures and begins with a description of its biological profile as well as any known molecular mechanisms of action, underlining the importance of its structural and stereochemical features. This section is followed by detailed discussions of synthetic approaches to the chiral target structure, highlighting creative ideas, the scaling-up of laboratory methods and their replacement by efficient modern technologies for large-scale production. Nearly 60 synthetic reactions, most of them stereoselective, catalytic or biocatalytic, as well as chiral separating methodologies are included in the book. Vitomir Sunjic and Michael J. Parnham provide an invaluable source of information for scientists in academia and the pharmaceutical industry who are actively engaged in the interdisciplinary development of new drugs, as well as for advanced students in chemistry and related fields.

## Book Information

Paperback: 232 pages

Publisher: Springer; 2011 edition (September 21, 2014)

Language: English

ISBN-10: 3034807708

ISBN-13: 978-3034807708

Product Dimensions: 6.1 x 0.6 x 9.3 inches

Shipping Weight: 13.8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #725,193 in Books (See Top 100 in Books) #60 in [Books > Science & Math > Chemistry > Clinical](#) #189 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Biochemistry](#) #240 in [Books > Science & Math > Chemistry > Industrial & Technical](#)

## Customer Reviews

From the reviews: "In this timely book, Sunjic and Parnham provide an exciting selection of major achievements in drug development and unfold 15 intriguing success stories of aliskiren, vancomycin, paclitaxel, menthol, efavirenz, and others from the perspective of a medicinal

chemist. This book will be most appealing to undergraduate and graduate students with an interest in synthesis and stereochemistry. It should be considered an instructive teaching supplement that underscores the general significance and impact of creative synthetic chemistry and stimulates further discussion in the classroom. (Christian Wolf, Journal of the American Chemical Society, September, 2011) “The subject of the book are chiral drugs. Each chapter can be read separately and consists of an abstract, introduction, the main part with the synthetic approach to a certain drug, conclusion and references. References are relevant and up-to date. A long list of abbreviations and acronyms is provided at the beginning. The book will be very useful to synthetic organic and medicinal chemists in innovative pharmaceutical companies and to scientists and ambitious students of chemistry and pharmacy. (Branka Zorc, Acta Pharmaceutica, Vol. 61, 2011) “This volume will be of interest to those working in synthetic organic chemistry, particularly in the medicinal chemistry area, and having as their aim the discovery of new drug entities for the pharmaceutical industries. there is also a useful summary of synthetic methods and concepts that are developed in the individual chapters, together with a useful index. The standard of presentation is very high, with many clearly presented reaction schemes, and each chapter has a comprehensive list of references to the specific area. (D. W. Allen, Inflammopharmacology, Vol. 19, 2011)

[Download to continue reading...](#)

Signposts to Chiral Drugs: Organic Synthesis in Action Asymmetric Synthesis: The Chiral Carbon Pool and Chiral Sulfur, Nitrogen, Phosphorus, and Silicon Centers Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) How to Draw Action Figures: Book 2: More than 70 Sketches of Action Figures and Action Poses (Drawing Action Figures, Draw Action Figures Book, How Draw Action Poses, Draw Comic Figures) The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Chiral Auxiliaries and Ligands in Asymmetric Synthesis Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B Miracles, Angels & Afterlife: Signposts to Heaven Signposts: German Cycloaddition Reactions in Organic Synthesis, Volume 8 (Tetrahedron Organic Chemistry) Hypertension and You: Old Drugs, New Drugs, and the Right Drugs for Your High Blood Pressure Prescription Drugs: Understanding Drugs and Drug Addiction (Treatment to

Recovery and Real Accounts of Ex-Addicts Volume III – Prescription Drugs Edition Book

3) Abusing Over the Counter Drugs: Illicit Uses for Everyday Drugs (Illicit and Misused Drugs)

Percutaneous Absorption: Drugs--Cosmetics--Mechanisms--Methodology:

Drugs--Cosmetics--Mechanisms--Methodology, Third Edition, (Drugs and the Pharmaceutical

Sciences) New Drugs: Bath Salts, Spice, Salvia, & Designer Drugs (Downside of Drugs) Dynamic

Stereochemistry of Chiral Compounds: Principles and Applications Organic Homemade Lotion

Recipes - For All Skin Types (The Best Lotion DIY Recipes): Lotion Making For Beginners (organic

lawn care manual, organic skin care, beauty and the beast) Landmarking and Segmentation of 3D

CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu) Advanced Organic

Chemistry: Part B: Reaction and Synthesis

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)