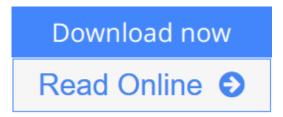


# Medicinal Natural Products: A Biosynthetic Approach

By Paul M. Dewick



#### Medicinal Natural Products: A Biosynthetic Approach By Paul M. Dewick

Medicinal Natural Products, Second Edition is a comprehensive guide providing information on all classes of natural products in medicine. It builds upon fundamental chemical principles and demonstrates a unique integration of plant, microbial and animal natural products in one volume. The text guides the reader through a wealth of diverse natural metabolites used in medicine with sources, production methods, use as drugs and modes of action all extensively covered. Taking a chemistry based approach it combines traditional pharmacognosy with medicinal chemistry. The structure is user-friendly and includes the acclaimed grey boxes on groups of products and detailed mechanistic explanations.

- \* Adopts a novel biosynthetic theme rather than a traditional descriptive approach
- \* Includes extensive further reading at the end of the chapter
- \* Thoroughly revised and updated to incorporate comprehensive coverage of plant, microbial and animal products
- \* Includes the latest developments in the field
- \* New material on genetic manipulation of biosynthetic pathways and non-mevalonate pathway to terpanoids
- \* User-friendly format including extensive use of chemical schemes with annotated mechanistic explanations



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#### **Editorial Review**

#### Review

- "...an excellent and accurate reference source..." (Journal of Ethnopharmacology, No.81, 2002)
- "...I shall certainly use this text and I shall value it..." (Natural Products Report, Vol.19, No.3, 2002)

"The price of the paper-back will allow not only to have it in the library but also on the personal bookshelf." (Journal of Plant PhysiologyNo.159, 2002)

#### From the Publisher

Pharmacologically active natural products from plants, microorganisms and animals have been used for centuries in the treatment of diseases. Within the science of pharmacognosy early herbal remedies and animal extracts have been evaluated and analysed to produce both modified (semi-synthetic) extracts and synthetic analogues. This is a concise and informative textbook which provides a comprehensive introduction to natural products in medicine from a biosynthetic point of view, rather than the more usual natural product class or activity viewpoint.

#### From the Back Cover

Medicinal Natural Products, Second Edition provides a comprehensive and balanced introduction to natural products from a biosynthetic perspective. The book builds upon fundamental chemical principles and guides the reader through a wealth of diverse natural metabolites with particular emphasis on those used in medicine: sources, production methods, use as drugs, semi-synthetic derivatives and synthetic analogues, and modes of action are all extensively covered. Invaluable for students of pharmacy, medicinal chemistry, pharmacognosy, phytochemistry and chemistry.

The Second Edition retains the user-friendly style and highly acclaimed features of the First Edition, and has been extended and fully updated:

- \* A comprehensive treatment of plant, microbial and animal products natural products in one volume including the latest developments in the field.
- \* Expanded coverage of many topics.
- \* New material including genetic manipulation of biosynthetic pathways and the mevalonate-independent pathway to terpenoids.
- \* Extensive use of chemical schemes with annotated mechanistic explanations.
- \* Cross-referencing to emphasize links and similarities. Reviews of the First Edition:
- "...one of the best books on natural products that has been written. It should find a place on the bookshelves of everyone with an interest in natural products, since it not only offers a quick overview of the many different facets of natural products chemistry, but also, thanks to its comprehensive index, serves as an excellent reference source." Angewandte Chemie.

"Paul Dewick's enthusiasm for his subject is much in evidence, and this book will be both welcomed and enjoyed by all those who want to know the basic facts about medicinal natural products." Phytochemistry. "It is refreshing to read a current natural products textbook that embraces a biosynthetic approach to instruction, which allows for the application of basic chemical principles. This text is invaluable for both undergraduate and graduate students with interests in natural products chemistry" Journal of Natural Products. "...this book is excellent, with high quality of both text and illustrations throughout...I would recommend purchase for all those who are interested in the biosynthetic pathways of medicinal natural products." Trends in Plant Science.

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