**DESCRIPTION**

*Medicinal Natural Products: A Biosynthetic Approach, Third Edition*, provides a comprehensive and balanced introduction to natural products from a biosynthetic perspective, focussing on the metabolic sequences leading to various classes of natural products. 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.

There have been rapid advances in biosynthetic understanding over the past decade through enzymology, gene isolation and genetic engineering. *Medicinal Natural Products* has been extended and fully updated in this new edition to reflect and explain these developments and other advances in the field. It retains the user-friendly style and highly acclaimed features of previous editions:

- a comprehensive treatment of plant, microbial, and animal natural products in one volume
- extensive use of chemical schemes with annotated mechanistic explanations
- cross-referencing to emphasize links and similarities
boxed topics giving further details of medicinal materials, covering sources, production methods, use as drugs, semi-synthetic
derivatives and synthetic analogues, and modes of action

Medicinal Natural Products: A Biosynthetic Approach, Third Edition, is an invaluable textbook for students of pharmacy,
pharmacognosy, medicinal chemistry, biochemistry and natural products chemistry.

ABOUT THE AUTHOR

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Paul Dewick is the author of Medicinal Natural Products: A Biosynthetic Approach, and Essentials of Organic Chemistry: For
Students of Pharmacy, Medicinal Chemistry and Biological Chemistry (Wiley, 2006).

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• Rapid advances have been made in the last decade in gene isolation and genetic engineering, leading to the elaboration of
many biosynthetic pathways. Medicinal Natural Products has been extended and fully updated in this new edition to reflect
and explain these new developments and other advances in the field

FEATURES

• Provides a comprehensive treatment of plant, microbial, and animal natural products in one volume
• Students’ skills in deductive reasoning are developed by emphasizing the relationships between classes of natural products rather than the more traditional descriptive approach

• Extensive further reading suggestions at the end of each chapter

• Boxed topics giving further details of medicinal materials, covering sources, production methods, use as drugs, semi-synthetic derivatives and synthetic analogues, and modes of action

• Extensive use of chemical schemes with annotated mechanistic explanations

• Includes cross-referencing to emphasize links and similarities

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