



# Bioactive Natural Products: Chemistry and Biology

By Goutam Brahmachari

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**Bioactive Natural Products: Chemistry and Biology** By Goutam Brahmachari

Natural compounds, which have evolved their function over millions of years, are often more efficient than man-made compounds if a specific biological activity is needed, e.g. as an enzyme inhibitor or as a toxin to kill a cancer cell.

This book comprising of sixteen technical chapters, highlights the chemical and biological aspects of potential natural products with an intention of unravelling their pharmaceutical applicability in modern drug discovery processes.

## Key features:

- Covers the synthesis, semi-synthesis and also biosynthesis of potentially bioactive natural products
- Features chemical and biological advances in naturally occurring organic compounds describing their chemical transformations, mode of actions, and structure-activity relationships
- 40 expert scientists from around the world report their latest findings and outline future opportunities for the development of novel and highly potent drugs based on natural products operating at the interface of chemistry and biology
- Forward-looking: Addresses opportunities and cutting-edge developments rather than well-documented basic knowledge, pinpoints current trends and future directions in this rapidly-evolving field
- Application-oriented: Throughout the book, the focus is on actual and potential applications in pharmacology and biotechnology

This book is an essential resource for natural products chemists, medicinal chemists, biotechnologists, biochemists, pharmacologists, as well as the pharmaceutical and biotechnological industries.

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## **Editorial Review**

### **From the Inside Flap**

Bioactive natural products are a rich source of novel therapeutics. Thus, the search for bioactive molecules from nature continues to play an important role in fashioning new medicinal agents. This volume, which comprises sixteen chapters written by active researchers and leading experts in natural products chemistry, brings together an overview of current discoveries in this remarkable field. It also provides information on the industrial application of natural products for medicinal purposes. This book will serve as a valuable resource for researchers to predict promising leads for developing pharmaceuticals to treat various ailments and disease manifestations.

### **From the Back Cover**

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The synthesis, semi-synthesis and also biosynthesis of potentially bioactive natural products are covered. It also features chemical and biological advances in naturally occurring organic compounds describing their chemical transformations, mode of actions, and structure-activity relationships. 40 expert scientists from around the world report their latest findings and outline future opportunities for the development of novel and highly potent drugs based on natural products operating at the interface of chemistry and biology. This book is aimed at natural products chemists, medicinal chemists, biotechnologists, biochemists, pharmacologists, as well as the pharmaceutical and biotechnological industries.

### **About the Author**

Having obtained his Ph.D. degree from Visva-Bharati University (India) in 1997, Dr. Goutam Brahmachari started his academic career in 1998 at the same University, where he is now a Full Professor of Organic Chemistry since 2011. At present, he is responsible for teaching courses in organic chemistry, green chemistry, natural products chemistry, and physical methods in organic chemistry. Several students have received their Ph.D. degree under the supervision of Professor Brahmachari during this period, and a dozen research fellows are presently working with him both in the fields of natural products and synthetic organic chemistry. He has authored and edited several books on organic synthesis and on the chemistry and pharmacology of natural products, and serves as a member of the Indian Association for the Cultivation of Science (IACS), Kolkata.

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**Rosa Nguyen:**

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