



# Bioactive Compounds from Natural Sources: Isolation, Characterization and Biological Properties

By Corrado Tringali

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## Bioactive Compounds from Natural Sources: Isolation, Characterization and Biological Properties By Corrado Tringali

Interest in obtaining biologically active compounds from natural sources has recently spiked due to their low toxicity, complete biodegradability, availability from renewable sources, and in most cases, low cost. Taking an interdisciplinary approach, *Bioactive Compounds from Natural Sources: Isolation, Characterization, and Biological Properties* covers general methods and main topics in the research field of bioactive natural products.

The book describes general screening methods, modern HPLC hyphenated techniques, and NMR methods in the structural elucidation of compounds and devotes individual chapters to specific topics of research. Surveys on compounds displaying important pharmacological activities are presented in chapters devoted to Mexican medicinal plants, anti-tumor drugs of natural origin, cancer chemopreventive flavonoids, and metabolites displaying anti-HIV, antioxidative, antimalarial, and anti-inflammatory activity. The final chapters are devoted to representative examples of research into marine metabolites: immunomodulating marine glycolipids and surveys of bioactive compounds from marine opisthobranchs and Japanese soft corals.

With its focus on modern approaches to the isolation of biologically active natural products, this book encourages interdisciplinary work among chemists, pharmacologists, biologists, botanists, and agronomists with an interest in bioactive natural products.

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Review

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"...The title of the book gives a good description of the chapters, which are very detailed and interesting in their multi-disciplinary content of biology, biochemistry and chemistry. Since Professor Tringali is the editor, it is not surprising that the chapters tend to include useful details of NMR data. All of the chapters have a good literature reference list. This book is recommended to all natural products researchers."

?Robert J. Nash, Institute of Grassland and Environmental Research, in *Phytochemistry*

"The book is well indexed with a detailed subject index and a separate natural source index listing the genus and species of each sample described in the text. References are through 1998, and in general the book is well organized with the format being consistent throughout the volume, making it easy to read. This book is certain to be of interest to those individuals new to the field of natural products as well as to senior scientists interested in a review of the subject areas covered by chapter."

?Mark T. Hamann, The University of Mississippi, in *Journal of Natural Products Review*

"... All in all, the book, including the excellent references, provides a good introduction to the methods and classes of natural products. It is an excellent starting point for new graduate students, and a useful reference for practitioners in the natural products field."

?W. Ayer, University of Alberta, Royal Society of Chemistry

### About the Author

Professor **Corrado Tringali** obtained his BA in chemistry at the University of Catania, Italy, in 1973. From 1977 to 1985 he was an assistant professor, teaching courses in organic chemistry and physical methods in organic chemistry. In November 1985 he became an associate professor (organic chemistry), and since November 2001 he has been a full professor (teaching courses in organic chemistry, natural products chemistry, and physical methods in organic chemistry). At present, he is coordinator of the international Doctorate of Research in Chemical Science program at the University of Catania (Cycles XXII –XIV).

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