



## **Bioactive Natural Products: Detection, Isolation, and Structural Determination, Second Edition**

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# Bioactive Natural Products: Detection, Isolation, and Structural Determination, Second Edition

## **Bioactive Natural Products: Detection, Isolation, and Structural Determination, Second Edition**

Bioactive natural products are proving to be a rich source of novel therapeutics to both protect against and combat diseases, as well as serve as lead compounds in crop protection. Following the successful format of the first edition, this volume brings together collective research from many new contributors and emphasizes the rationale behind the successful detection, isolation, and structure determination of specific compounds. The text encompasses a diverse range of techniques that can be applied to terrestrial and aquatic sources. It also allows you to understand how source material can be selected to enhance your opportunity to discover and utilize novel bioactive natural products.

New to the Second Edition—

- Advances in the application of NMR spectroscopy and mass spectrometry, bioactive chemical detection and extraction, dereplication, and novel bioassay development
- New case studies and illustrations that demonstrate the practical applications of specific techniques
- A group of new contributors presenting research from their own laboratories that emphasize both the philosophy and rationale behind detection, isolation, and structural determination

Following an overview of natural product chemistry techniques and approaches, many new chapters discuss selection of source material, quantitative NMR, high speed counter-current chromatography, dereplication of extracts, and methods to determine the stereochemistry of bioactive natural products. Examinations of new technologies including LC-NMR, biosensors, and biofingerprinting accompany discussions on the search for specific activities in anticancer and antimalarial applications, seed germination stimulation, and mammalian toxicity.

With the participation from active researchers, this definitive work supplies a vital extension and an enduring contribution to the science and art of bioactive natural product detection, isolation, and structural determination.

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