

# Preface

The aim and scope of this book is to highlight sources, isolation, characterization, and applications of bioactive compounds from the marine environment and to discuss how marine bioactive compounds represent a major market application in the food industry and others. It discusses sustainable marine resources of macroalgal origin and gives examples of bioactive compounds isolated from these and other resources including marine by-product and fishery waste streams. In addition, it looks at the importance of correct taxonomic characterization.

Bioactive molecules and their precursors are at the very high end of the chemical products value spectrum. This book discusses how bioactive compounds have been used in functional food formulations and pharmaceutical applications, and how they alter biological activity to provide therapeutic benefits, nutritional values, and health protection.

This volume looks at the screening process for identification of bioactive molecules and describes different production methods used for bioactive compound isolation and identification. Furthermore, this book provides an insight into the market opportunities that exist for the identification and commercialization of new marine bioactive compounds. Finally, it highlights regulations in the United States, Europe, Japan, and China and what is required from the regulatory bodies in these different countries to obtain a health or novel food claim for a marine functional food product.

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