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Biomedicine : Pharmaceutical Sciences / Technology

Nathani, N.M., Mootapally, C., Gadhvi, I.R., Maitreya, B., Joshi, C.G. (Eds.)

Marine Niche: Applications in Pharmaceutical Sciences

Translational Research

- The book describes the pharmaceutical aspect of marine flora, fauna and their associated marine microbes
- The book comprise of simple experimental workflows and diagrammatic representation for easy understanding of the readers
- The book talks about future perspectives and case studies for better understanding role of Marine bio-molecules in pharmaceutical sciences

This book offers a comprehensive study of biological molecules acquired from marine organisms, which have been exploited for drug discovery with the aim to treat human diseases. Biomolecules have potential impacts on a diverse range of fields, including medical and pharmaceutical science, industrial science, biotechnology, basic research, molecular science, environmental science and climate change, etc. To understand and effectively apply medicinally important biomolecules, multidisciplinary approaches are called for. The ocean remains a rich biological resource, and the vast untapped potential of novel molecules from marine bio-resources has caught the interest of more and more researchers. These novel biological compounds have never been found in terrestrial or other ecosystems, but only in this rich niche. Advances in sampling techniques and technologies, along with increased funding for research and nature conservation, have now encouraged scientists to look deeper in the waters. Aquaculture supports both tremendous seafood production and the bulk production of marine-derived drugs. Furthermore, molecular methods are now being extensively employed to explore the untapped marine microbial diversity. With the help of molecular and biotech tools, the ability of marine organisms to produce new biosynthetic drugs can be greatly enhanced. This book provides an extensive compilation of the latest information on marine resources and their undisputedly vital role in the treatment of diverse ailments.

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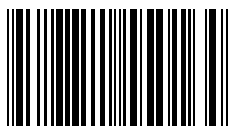
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