

REVIEW

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Marine biomaterials in biomedical nano/micro-systems

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Abstract

Marine resources in unique marine environments provide abundant, cost-effective natural biomaterials with distinct structures, compositions, and biological activities compared to terrestrial species. These marine-derived raw materials, including polysaccharides, natural protein components, fatty acids, and marine minerals, etc., have shown great potential in preparing, stabilizing, or modifying multifunctional nano-/micro-systems and are widely applied in drug delivery, theragnostic, tissue engineering, etc. This review provides a comprehensive summary of the most current marine biomaterial-based nano-/micro-systems developed over the past three years, primarily focusing on therapeutic delivery studies and highlighting their potential to cure a variety of diseases. Specifically, we first provided a detailed introduction to the physicochemical characteristics and biological activities of natural marine biocomponents in their raw state. Furthermore, the assembly processes, potential functionalities of each building block, and a thorough evaluation of the pharmacokinetics and pharmacodynamics of advanced marine biomaterial-based systems and their effects on molecular pathophysiological processes were fully elucidated. Finally, a list of unresolved issues and pivotal challenges of marine-derived biomaterials applications, such as standardized distinction of raw materials, long-term biosafety in vivo, the feasibility of scale-up, etc., was presented. This review is expected to serve as a roadmap for fundamental research and facilitate the rational design of marine biomaterials for diverse emerging applications.

Keywords: Chitosan-based nanoparticles, Alginate hydrogels, Collagen-based nanocomposites, marine fatty acid-based nanomaterials, Marine biomineralized nanocomposites

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Table of Contents Introduction To Marine Biomaterials Researchgate

1. Understanding the eBook Introduction To Marine Biomaterials Researchgate
 - The Rise of Digital Reading Introduction To Marine Biomaterials Researchgate
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Marine Biomaterials Researchgate
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Marine Biomaterials Researchgate
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Marine Biomaterials Researchgate
 - Personalized Recommendations
 - Introduction To Marine Biomaterials Researchgate User Reviews and Ratings
 - Introduction To Marine Biomaterials Researchgate and Bestseller Lists
5. Accessing Introduction To Marine Biomaterials Researchgate Free and Paid eBooks

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 - Introduction To Marine Biomaterials Researchgate Compatibility with Devices
 - Introduction To Marine Biomaterials Researchgate Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Marine Biomaterials Researchgate
 - Highlighting and Note-Taking Introduction To Marine Biomaterials Researchgate
 - Interactive Elements Introduction To Marine Biomaterials Researchgate
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Marine Biomaterials Researchgate
 9. Balancing eBooks and Physical Books Introduction To Marine Biomaterials Researchgate
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Marine Biomaterials Researchgate
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Introduction To Marine Biomaterials Researchgate
 - Setting Reading Goals Introduction To Marine Biomaterials Researchgate
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Introduction To Marine Biomaterials Researchgate
 - Fact-Checking eBook Content of Introduction To Marine Biomaterials Researchgate
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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