

MARINE GLYCOBIOLOGY

Principles and Applications

The oceans are the Earth's largest ecosystem, covering 70% of our planet and providing goods and services for the majority of the world's population. Marine glycobiology is an emerging and exciting area in the field of science and medicine. Glycobiology, which is the study of the structure and function of carbohydrates and carbohydrate containing molecules, is fundamental to all biological systems and represents a developing field of science that has made huge advances in the last half century. Advances in structure determination have enabled scientists to study the function of complex carbohydrates in more depth and to determine the role that they play in a wide range of biological processes.

Marine Glycobiology: Principles and Applications features the latest findings of leading scientists and researchers from around the world. Addressing the key aspects of marine glycobiology. This state-of-the-art reference

- Presents material appropriate as the first book to offer comprehensive coverage of the field.
- Covers marine glycobiology in glycans, glycosylation, glycoproteins, proteoglycans, glycolipids, glycomics, glycoenzymes, and bioinformatics.
- Contains the contributions of world-class experts in this emerging field and is edited by one of the world's top experts in marine biotechnology

This book will be of essential reading for the novice and experts in the fields of marine biotechnology, environmental biotechnology, marine biology, molecular biology, marine microbiology, environmental biotechnology, environmental sciences, chemical science, material science, pharmaceutical science, nutraceuticals and bioprocess engineering.



CRC Press
Taylor & Francis Group
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