Record Nr. Autore	UNINA9910349511403321 Kim Se-Kwon
Titolo	Essentials of Marine Biotechnology / / by Se-Kwon Kim
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-20944-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXII, 477 p.)
Disciplina	660.6
Soggetti	Biotechnology Genetics Aquatic ecology Environmental chemistry Analytical chemistry Biomedical engineering Genetics and Genomics Freshwater & Marine Ecology Environmental Chemistry Analytical Chemistry Biomedical Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	What is Marine Biotechnology? Introduction to Molecular Biology Fish Genetics Fish Breeding and Biotechnology Genetic Diversity and DNA Markers in Fish Seaweed Biotechnology Microalgae, a Biological Resource for the Future Developing Functional Materials with Marine Organisms Marine Bioenergy Production Marine Natural Substances Marine Microorganism Resources and Biotechnology Index.
Sommario/riassunto	This textbook introduces marine biotechnology by collecting the key knowledge on genetics, fish breeding, genetic diversity, seaweed production and microalgae biotechnology, and explores marine biomaterials and how they can benefit human health. Covering the latest applications of marine biotechnology in natural product

1.

development, genomics, transgenic technology, cosmeceuticals, nutraceuticals, and pharmaceutical development, it particularly focuses on future biological resources, developing functional materials from marine life, production of marine bioenergy and marine microbial resources and biotechnology. The author explains the structure of the book in an introductory note, and each chapter offers a detailed overview and conclusion to help readers better grasp the acquired knowledge. Lastly, the final part provides a comprehensive glossary with brief explanations of the key concepts in marine biotechnology. Written by a leading expert in the field with more than 30 years of teaching experience, this book broadens students' understanding of the basics and recent developments in marine biotechnology.