

1. Record Nr.	UNINA9910298625603321
Titolo	Handbook of Anticancer Drugs from Marine Origin // edited by Se-Kwon Kim
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-07145-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (801 p.)
Disciplina	54 577.6 577.7 611.01816 616994 660.6
Soggetti	Biotechnology Molecular biology Oncology Aquatic ecology Molecular Medicine Freshwater & Marine Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Introduction and prospects of Marine natural compounds -- Development of Anticancer Drugs from Marine Sources -- Seaweeds -- Bacteria and Cyanobacteria Fungal metabolites -- Sponge derived bioactive compounds Mollusk -- Soft corals -- Algae -- Tunicate -- Other marine organisms derived compounds.
Sommario/riassunto	This timely desk reference focuses on marine-derived bioactive substances which have biological, medical, and industrial applications. The medicinal value of these marine natural products are assessed and discussed. Their function as a new and important resource in novel, anticancer drug discovery research is also presented in international contributions from several research groups. For example, the potential

role of Spongistatin, Apratoxin A, Eribulin mesylate, phlorotannins, fucoidan, as anticancer agents is explained. The mechanism of action of bioactive compounds present in marine algae, bacteria, fungus, sponges, seaweeds, and other marine animals and plants are illustrated via several mechanisms. In addition, this handbook lists various compounds that are active candidates in chemoprevention and their target actions. The handbook also places into context the demand for anticancer nutraceuticals and their use as potential anti-cancer pharmaceuticals and medicines. This study of advanced and future types of natural compounds from marine sources is written to facilitate the understanding of Biotechnology and its application to marine natural product drug discovery research.
