

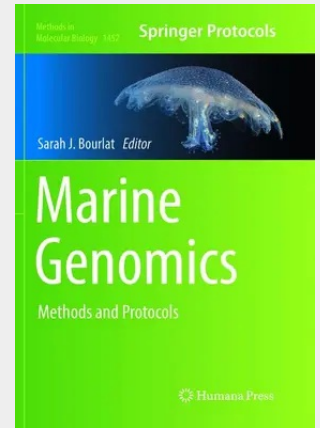
Marine Genomics

Methods and Protocols

This volume presents the latest protocols for both laboratory and bioinformatics based analyses in the field of marine genomics. The chapters presented in the book cover a wide range of topics, including the sampling and genomics of bacterial communities, DNA extraction in marine organisms, high-throughput sequencing of whole mitochondrial genomes, phylogenomics, SNP discovery, SNP-arrays for species identification, digital PCR-based quantification methods, environment DNA for invasive species surveillance and monitoring, microarrays for the detection of waterborne pathogens, DNA barcoding of marine biodiversity, metabarcoding protocols for marine eukaryotes, analytical protocols for the visualization of eukaryotic diversity, and applications for genomic data to benthic indices for environmental monitoring. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introduction to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Cutting-edge and thorough, *Marine Genomics: Methods and Protocols* is a valuable resource for researchers, students, and policy makers in the field of marine biology.

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106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781493981359
Medium: Buch
ISBN: 978-1-4939-8135-9
Verlag: Humana
Erscheinungstermin: 31.05.2018
Sprache(n): Englisch
Auflage: Softcover Nachdruck of the original 1. Auflage 2016
Serie: Methods in Molecular Biology
Produktform: Kartoniert
Gewicht: 5018 g
Seiten: 253
Format (B x H): 178 x 254 mm

