

1. Record Nr.	UNINA9910143272203321
Autore	Gosling E. M
Titolo	Bivalve molluscs [[electronic resource] ] : biology, ecology, and culture / Elizabeth Gosling
Pubbl/distr/stampa	Oxford ; ; Malden, MA, : Fishing News Books, 2003
ISBN	1-280-21294-2 9786610212941 0-470-79276-0 0-470-99553-X 1-4051-4757-1
Descrizione fisica	1 online resource (456 p.)
Disciplina	594/.4 639.4
Soggetti	Bivalves Bivalve culture Electronic books.
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 indexes.
Nota di contenuto	Bivalve Molluscs Biology, Ecology and Culture; Contents; Preface; Acknowledgements; 1 An Introduction to Bivalves; References; 2 Morphology of Bivalves; Introduction; The shell; Mantle; Gills; The foot; Labial palps and alimentary canal; Gonads; Heart and haemolymph vessels; Excretory organs; Nerves and sensory receptors; References; 3 Ecology of Bivalves; Introduction; Global and local distribution patterns; Factors affecting distribution and abundance; References; 4 How Bivalves Feed; Introduction; Filtration rate; Particle processing on the gills Labial palps and pseudofaeces production and transport Ingestion volume regulation; Pre-ingestive particle selection; The alimentary canal and digestive process; Food; Absorption efficiency; References; 5 Reproduction, Settlement and Recruitment; Introduction; Differentiation of sexes; Gametogenesis; Reproductive cycles; Factors controlling reproduction; Annual storage cycle; Reproductive effort and fecundity; Deleterious effects on the reproductive cycle; Fertilisation; Larval

development; Factors affecting larval growth; Larval dispersal; Settlement and metamorphosis; References  
6 Bivalve Growth Introduction; Methods of measuring absolute growth; Allometric growth; Growth curves; Scope for growth; Factors affecting growth; References; 7 Circulation, Respiration, Excretion and Osmoregulation; Circulation; Respiration; Excretion and osmoregulation; References; 8 Fisheries and Management of Natural Populations; Introduction; Population dynamics; Fisheries assessment and management; Scallop fisheries; Oyster fisheries; Mussel fisheries; Clam fisheries; References; 9 Bivalve Culture; Introduction; Fundamentals of bivalve culture; Mussel culture; Oyster culture Scallop culture Clam culture; Bivalve culture and the environment; References; 10 Genetics in Aquaculture; Introduction; Quantitative genetics; Selective breeding; Protein and DNA markers; Chromosomal genetics and ploidy manipulation; Benefits of ploidy manipulation; Transgenics; References; 11 Diseases and Parasites; Introduction; Viruses; Bacteria; Fungi; Protozoa; Porifera; Helminths; Annelids; Crustaceans; Neoplasia; Defence mechanisms; Further research; References; 12 Public Health; Introduction; Bacterial infections; Viral infections; Biotoxins; Industrial pollutants  
Decontamination procedures Monitoring and quality control; The HACCP system; References; Subject Index; Species Index

---

Sommario/riassunto

Bivalve Molluscs is an extremely comprehensive book covering all major aspects of this important class of invertebrates. As well as being an important class biologically and ecologically, many of the bivalves are fished and cultured commercially (e.g. mussels, oysters, scallops and clams) in a multi-billion dollar worldwide industry. Elizabeth Gosling who has a huge wealth of research, teaching and hands on experience working with bivalves, has written a landmark book that will stand for many years as the standard work on the subject. Chapters in Bivalve Molluscs co

---