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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 GrowthIntroduction; 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 cultureClam 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 proceduresMonitoring and quality control; The HAACP 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