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the world. With demand for seafood increasing... About the

Editors. Geoff Allan is the Executive Director of Fisheries

NSW and Director of the Port Stephens Fisheries...

Advances in Aquaculture Hatchery Technology - 1st Edition

Finally, part four explores aquaculture hatcheries for

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conservation and education. With its distinguished editors and international team of expert contributors, Advances in aquaculture hatchery technology is an authoritative review of the field for hatchery operators, scientists, marine conservators and educators.

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Reproduction and larval rearing: Aquaculture hatchery water supply and treatment systems Principles of finfish broodstock management in aquaculture: control of reproduction and genetic improvement Cryopreservation of gametes for aquaculture and alternative cell sources for genome

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Burnell. For seafood production to meet expected demand from a growing global population, many more millions of tons of seafood will need to be produced. The expectations for increased product from capture fisheries is limited, so this rise in production will have to come from aquaculture, one of the fastest growing food producing sectors in the world.

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Aquaculture is the fastest-growing food production sector in the world. With demand for seafood increasing at astonishing rates, the optimization of production methods is vital. One of the primary restrictions to continued growth is the supply of juveniles from hatcheries. Addressing these constraints,

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Advances in aquaculture hatchery technology provides a comprehensive, systematic guide to the use of current and emerging technologies in enhancing hatchery production. Part one reviews reproduction and larval rearing. Aquaculture hatchery water supply and treatment systems, principles of finfish broodstock management, genome preservation, and varied aspects of nutrition and feeding are discussed in addition to larval health management and microbial management for bacterial pathogen control. Closing the life-cycle and overcoming challenges in hatchery production for selected invertebrate species are the focus of part two, and advances in hatchery technology for spiny lobsters, shrimp, blue mussel, sea cucumbers and cephalopods are all discussed. Part three concentrates on challenges and

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successes in closing the life-cycle and hatchery production for selected fish species, including tuna, striped catfish, meagre, and yellowtail kingfish. Finally, part four explores aquaculture hatcheries for conservation and education. With its distinguished editors and international team of expert contributors, Advances in aquaculture hatchery technology is an authoritative review of the field for hatchery operators, scientists, marine conservators and educators. Provides a comprehensive guide to the use of technologies in enhancing hatchery production Examines reproduction and larval rearing, including genetic improvement and microdiets Discusses challenges in hatchery production of specific species

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The hands-on nature of the hatchery setting is a natural supplement to curriculum units for students of all ages and experience levels. This chapter addresses the benefits of experiential education and provides descriptions of its use for a variety of aquaculture-based learning experiences pertinent to a number of subject areas. Recommendations for implementing such programs are presented for each grade level and discipline. The chapter provides a number of examples and resources to aid the reader in developing or enhancing instruction in the hatchery or classroom.

The reliance on wild-caught juvenile tuna is seen as the Achilles heel of tuna ranching industries worldwide and it is widely recognised that closed-cycle hatchery production is

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essential to sustain the demand for tuna and reduce pressure on wild stocks. The many features that make tuna such a unique group of fish also give rise to the many challenges associated with their culture and despite some forty years of effort, commercial scale hatchery production has yet to be fully realised. This chapter summarises the history of closed-cycle tuna production and discusses the recent and significant achievements that have been made towards the achievement of this elusive goal.

For seafood production to meet expected demand from a growing global population, many more millions of tons of seafood will need to be produced. The expectations for increased product from capture fisheries is limited, so this rise

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in production will have to come from aquaculture, one of the fastest growing food producing sectors in the world. A primary constraint to the continuing growth of aquaculture is the supply of juveniles from hatcheries --

Good water quality is of major importance to production results in a hatchery, particularly in those which work more intensively. A low cost water transfer system is also important economically, affecting both investment and running costs. The low cost, however, should not be allowed to compromise the efficacy of the system, leading to operating problems or a lower water quality, for example. This chapter will take a brief look at some important factors in the location of hatcheries, before progressing to assess different water supply systems,

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encompassing both fresh water and sea water. Before the water enters the production unit, it has to be treated to fulfill the requirement of the aquatic organism as closely as possible. A description of different water treatment equipment/methods is also included in the chapter.

To date, European mussel culture has relied entirely on wild seed from suspended collectors or mussel beds. One problem faced by blue mussel producers is the unpredictability of seed supply, the amounts of wild seed available being extremely variable from year to year. A second problem is that recently spawned mussels cannot be sold due to insufficient meat. Hatcheries can complement wild seed supply. Hatcheries also allow triploid induction that

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publishing series in Food Science, Technology And Nutrition produces non-maturing mussels. In this chapter, the different steps in hatchery production of mussel seed are described. A final section addresses future trends.

Sea cucumber fisheries have existed for centuries, driven primarily by the Chinese markets. In recent decades, overfishing has severely depleted commercial sea cucumber populations worldwide. Consequently, a growing number of countries are becoming interested in developing aquaculture programs. Every year billions of larvae and millions of juveniles are successfully grown in aquaculture facilities and new initiatives are booming. Here we introduce briefly the main species that have so far been successfully cultivated: *Apostichopus japonicus*, *Holothuria scabra* and *Isostichopus*

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fuscus. We describe common techniques for the culture of larvae and juveniles and outline some of the main challenges of this industry.

Striped catfish (*Pangasianodon hypophthalmus*) farming in the Mekong Delta, Vietnam, is considered as a major, aquaculture development both in Vietnam and globally. One of the main drivers responsible for the explosive growth of the sector is considered to be the development and commercialisation of techniques for artificial propagation of the species. This chapter looks first at the life-cycle of the striped catfish and historical developments in hatchery technology before going on to discuss induced breeding of catfish in hatcheries together with larval and fry nursing.

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Finally, harvesting and transportation are described and possible future directions in the sector.

Yellowtail kingfish (*Seriola lalandi*; YTK) hatchery technology has been largely developed in New Zealand and Australia where a burgeoning seacage grow-out industry exists. Wild-caught broodstock can be maintained in land-based tanks and induced to spawn using hormone therapy or more commonly will spawn spontaneously within one to two breeding seasons of domestication using phototherm manipulation. The chapter looks at seriola aquaculture, detailing broodstock management and larviculture. Two peaks of mortality have been found to occur – one at 3–4 dph when larvae commence feeding, and a second caused by

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cannibalism which occurs when larvae are 6–10mm total length – and the chapter discusses strategies for mitigating these problems. The major bottlenecks to YTK juvenile production have included low survival and high rates of deformity, and the chapter finishes by looking at how commercial and government research institutes are addressing these.

Global shrimp farming more than tripled production over the last decade. The major driver of that expansion was the introduction, adoption and expansion of farming *P. vannamei* as the shrimp species of choice. A key element determining farmers' preference for *P. vannamei* was widespread availability of High Health post-larvae (PL) produced from

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specific pathogen free (SPF) broodstock that outperformed other shrimp species in reliability and profitability. Production of High Health PL requires use of SPF broodstock in hatcheries using biosecurity. This chapter reviews key management practices of securing SPF broodstock and biosecurity in *P. vannamei* shrimp hatchery systems.

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