1.

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CHARACTERIZATION OF INTERSPECIFIC HYBRIDS AND CHROMOSOME SET MANIPULATED FINFISHASSIGNMENT OF GENETIC LINKAGE GROUPS TO SPECIFIC CHROMOSOMES (GENOME MAPPING); IDENTIFICATION OF PATHOGENS IN CULTURED SHELLFISH, FISH, AND WASTEWATER GENERATED BY AQUACULTURE; FUTURE APPLICATIONS; Part 3: Fish Health; Chapter 6: The Application of Genomics, Proteomics, and Metabolomics to Studies of Fish Health; INTRODUCTION; STUDIES OF PATHOGEN BIOLOGY; HOST-PATHOGEN INTERACTIONS; APPLICATIONS OF GENOMICS AND PROTEOMICS TO VACCINE DEVELOPMENT; CONCLUDING REMARKS
Chapter 7: Antimicrobial Peptides and Their Potential as Therapeutants in AquacultureOVERVIEW; PHYSICAL PROPERTIES OF ANTIMICROBIAL PEPTIDES; DISTRIBUTION OF ANTIMICROBIAL PEPTIDES; EXPRESSION OF ANTIMICROBIAL PEPTIDES; ACTIVITIES OF ANTIMICROBIAL PEPTIDES; THERAPEUTIC POTENTIAL OF ANTIMICROBIAL PEPTIDES; FUTURE DEVELOPMENTS; ACKNOWLEDGMENTS; Chapter 8: Adaptive Immunity in Finfish: A Physiological Perspective; INTRODUCTION; THE IMMUNE SYSTEM AS A WHOLE INTEGRATIVE DEFENCE MECHANISM; MH RECEPTORS; ANTIGEN PRESENTATION IN THE ADAPTIVE IMMUNE RESPONSE; MH SEQUENCES AND THEIR APPLICATIONS
CYTOKINES AND CHEMOKINES AS MEASURES OF IMMUNE RESPONSES

Sommario/riassunto

This important book looks at a broad spectrum of biotech research efforts and their applications to the aquaculture industry. Aquaculture Biotechnology provides key reviews that look at the application of genetic, cellular, and molecular technologies to enable fish farmers to produce a more abundant, resilient, and healthier supply of seafood. Aquaculture Biotechnology is divided into seven sections and nineteen chapters that cover topics ranging from broodstock improvement to fish health and gene transfer. With chapters provided by leading researchers and skillfully edited by to