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Titolo	Taiwan / [ed. Yamabe Kentaro]
Pubbl/distr/stampa	Tokyo, : Misuzu shobo, 1971
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Nota di contenuto

1 Aquaculture Productivity Enhancement through Advanced Technologies -- 2 Indigenous fishes as valued genetic resources -- 3 Applications of Next Generation Sequencing in Aquaculture and Fisheries -- 4 Genome Sequencing in Fishes -- 5 Omics in Aquaculture -- 6 Growth Hormone Transgenesis in Aquaculture -- 7 Genome Editing in Fish Reproduction -- 8 Metabolomics: a Novel Technology for Health Management in Aquaculture -- 9 Epigenetics: Perspectives and Potential in Aquaculture -- 10 Application of Stem Cell Based Technologies in Management of Fisheries Resources -- 11 Molecular Markers in Fisheries and Aquaculture -- 12 Microsatellite Markers for Fish Conservation -- 13 Cryopreservation in Aquaculture -- 14 Nanobiotechnology: Prospects and Applications in Aquaculture -- 15 Application of Nanotechnology for Abiotic Stress Management in Aquaculture -- 16 Nutritional biotechnology to augment aquaculture production -- 17 Colour enhancement in ornamental fishes -- 18 Immunoprophylactic Measures in Aquaculture -- 19 DNA Vaccines for Fish -- 20 Bacteriophage Therapy in Aquaculture: An Overview -- 21 Disease Diagnostic Tools for Health Management in Aquaculture -- 22 Prospect and Challenges of Biofloc Technology for Sustainable Aquaculture Development -- 23 Biofilm in Aquaculture Production -- 24 Bioremediation of Aquatic Environment -- 25 Effects of Pharmaceutical Waste in Aquatic Life -- 26 Biosafety and Biosecurity for Sustainable Aquaculture Development -- 27 Specific Pathogen Free (SPF) Shrimps in Aquaculture -- 28 Enzymes from Aquatic Resources and their Application in Food and Cosmetic Industry -- 29 Biotechnological approaches to valorization of aquaculture bio-wastes and their biomedical applications.

Sommario/riassunto

The book covers various biotechnological research efforts and their applications in fisheries and aquaculture, especially in the area of fish breeding, health management, nutrition and culture. Application of the recent biotechnological tools, like Transcriptomics, Transgenesis, Nanotechnology, Metabolomics, RNAi and CRISPRi Technologies in the field of fisheries research are included in the book. Topics like conservation genetics for management of fishery resources are also covered in the book. It aims at addressing the growing need of the biotechnology in advancing the cause of aquaculture with a view to provide food and nutritional security to the world. This book will be of immense use to teachers, researchers, academicians, development officials and policymakers, involved in R&D of fisheries and aquaculture sectors. Also, the book serves as an additional reading material for undergraduate and graduate students of fisheries, marine sciences, ecology, aquaculture, and environmental sciences. The research in aquaculture biotechnology is likely to have significant impact on aquaculture and fisheries by way of supporting nutritional food security to the growing population.