1. Record Nr. UNINA9910576887203321

Autore	Esteban Maria Angeles
Titolo	Current Advances and Challenges in Fisheries and Aquaculture Science: Feature Papers for the New Journey of Fishes
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (180 p.)
Soggetti	Biology, life sciences Fisheries and related industries Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This addresses current advances and challenges in fisheries and aquaculture science. Exposure of larval fish to elevated temperatures during embryological development may induce craniofacial and morphological alterations, which are suggested possible impacts of global warming. Molecular markers shed new light on the ontogenetic migration of stream fishes. Fast growth rates, early age at maturity, moderate fecundity, and diverse diet explain the potential for introduced fishes to dominate fish communities in their native and introduced range. Taking videos of marine benthic habitats supports low-impact, real-time monitoring of species occurrence. Among heavily fished species, almost half had outdated demographic assessments that would benefit from the integration of data from fisheries sources and improved collaboration among fishery stakeholders and managers. The continued growth of aquaculture will depend upon developing feeds that improve the growth, oxidative status, and immune response of fed cultured organisms. New aquaculture feedstuffs might be derived from plants or microbes, and new additives would include ghrelins and dietary symbiotics. The effects of these constituents on survival, growth, gut histomorphology, immune response were assessed for cultured freshwater and marine

species. The results provide suggestions for advances in aquafeeds for the species studied and for cultured fishes more generally. The scientific advances realized with the use of new tools provide the basis for addressing global challenges to fisheries, aquaculture and for ongoing scientific research.