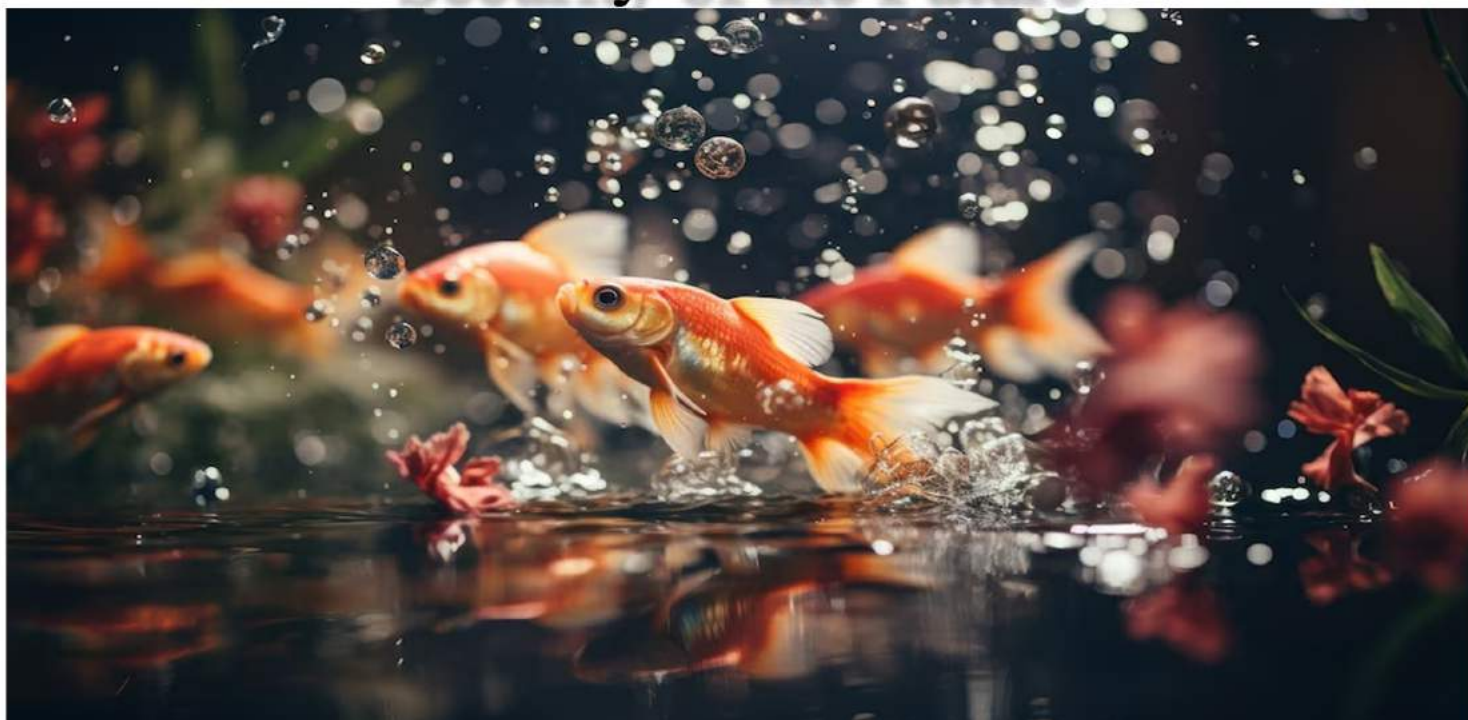# Call for Book Chapters/Research Papers for Edited Book
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Handbook on Aquaculture Practices: Food Security of the Future

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Call for Chapters
Handbook on Aquaculture Practices: Food security of the Future

Aim & Scope:

Aquaculture has a tremendous potential and is a fast growing animal food producing sector in world. The total aquaculture fish production comprised of 87.5 million tonnes of aquatic animals, 35.1 million tonnes of algae, 700 tonnes of shells and pearls, reaching a total of 122.6 million tonnes in live weight (FAO, 2020). The aim of this book is to provide theoretical knowledge on the various aspect of aquaculture. This compilation will highlights on several aspect of aquaculture techniques like, ecosystem approach to aquaculture, selection for aqua farm, water quality management, fish genetics and biotechnology, feed formulation, disease diagnosis techquies, different types of hatcheries etc. This book is prepared with a primary focus on the undergraduate and postgraduate courses offered by ICAR.

- Present status and scope of aquaculture
- Advanced aquaculture technologies (RAS, Biofloc, Aquaponics, IMTA etc.)
- Cultivable fish species
- Extensive, semi intensive and intensive aquaculture
- Coldwater Fisheries and aquaculture
- Sewage fed fish culture
- Integrated Fish Farming (IFF)
- Selection of site for aquaculture
- Criteria for Fish farm design
- Type of aerator, Filter and pumps
- Soil and Water quality Management in Aquaculture
- Pre and post stocking management in Aquaculture
- Code of Conduct for Responsible Fisheries (CCRF)
- Applying Artificial Intelligence techquies in aquaculture sector
- Ecosystem approach to Aquaculture
- Breeding and seed production of cultivable fish species
- Breeding and Seer production of shellfish
- Induced breeding, use of different synthetic hormones and its analogues, multiple breeding.
- Different types of fish hatcheries
- Nutritional requirement of finfish and shellfish
- Fish feed formulation and preparation
- Types of Fish feed (supplementary, pelleted, floating, sinking, natural fish feed etc)
- Bacterial, Fungal, Viral and protozoan diseases
- Fish Disease Diagnosis Techniques
- Control and Prevention of Fish diseases
- Gynogenesis, Androgenesis, Polyploidy, Hybridization & selective breeding

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