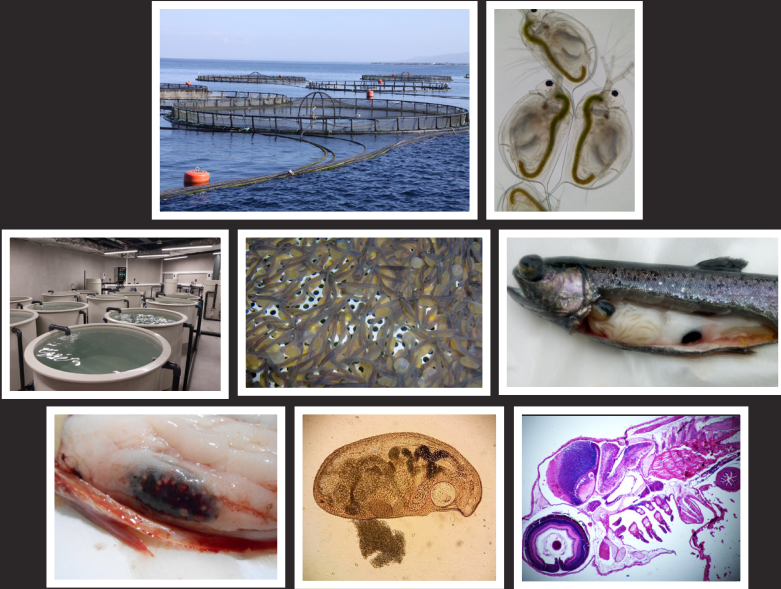


PRESENT-DAY TURKISH AQUACULTURE AND TRENDS IN INTERNATIONAL RESEARCH



Editors

**Mustafa YILDIZ
Süheyla KARATAŞ**



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Editors

Prof. Dr. Mustafa Yıldız

İstanbul University, Faculty of Aquatic Sciences, Department of Aquaculture, İstanbul, Türkiye

Prof. Dr. Süheyla Karataş

İstanbul University, Faculty of Aquatic Sciences, Department of Fish Diseases, İstanbul, Türkiye



Published by
İstanbul University Press
İstanbul University Central Campus, 34452 Beyazıt/Fatih, İstanbul - Türkiye



<https://iupress.istanbul.edu.tr>

Present-Day Turkish Aquaculture and Trends in International Research
Editors: Mustafa Yıldız, Süheyla Karataş

E-ISBN: 978-605-07-1593-4

DOI: 10.26650/B/LS32LS24.2024.005

Istanbul University Publication No: 5339

Faculty of Aquatic Sciences Publication No: 12

Published Online in March 2024

It is recommended that a reference to the DOI is included when citing this work.

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This book was published as part of the Istanbul University Press' 100th Anniversary of the Republic book project.

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FOREWORD

Turkish aquaculture started in inland waters in 1970, has continued to grow with marine aquaculture since the mid-1980s and has grown in parallel with the developments in the world. Although aquaculture production started in many countries earlier than Türkiye, production success in these countries has been achieved by Turkish aquaculture industry thanks to the use of the latest technologies in this field. In Türkiye, 25 universities and 4 Research Institutes provide education in the field of aquaculture and various research are carried out by many scientists with different specializations. This book is considered important among the books to be published by Istanbul University on the 100th anniversary of the founding of the Turkish Republic, and therefore dedicated to the founding of the Turkish Republic by the authors.

PREFACE

The rapid population growth is causing notable challenges in global food supply. There has not been a proportional increase in the quantity of fish obtained through fisheries over the years due to factors such as climate change, water pollution and overfishing. Due to these factors, a significant reduction in the supply of wild fish is to be expected. On the contrary, a better understanding of the positive health benefits of seafood has led to an increase in fish consumption, making global aquaculture one of the fastest growing food production sectors in recent years. Therefore, research in aquaculture will play an increasingly important role in ensuring world food security. The rapid increase in mass fish production has triggered studies on the cultivation of new species specifically, and accelerated research on both the nutritional requirements of farmed fish species and the search for alternative protein sources as replacement ingredients in fish feed. Besides feed formulation, it has also created the need for more knowledge in areas such as disease prevention, aquaculture systems, environmental effects, marketing, processing technology, workforce and legislation. Despite the use of antibiotics and vaccination, infectious diseases still cause significant economic losses in aquaculture. Although antibiotics are accepted as effective agents in the control of bacterial diseases, their frequent use leads to resistance, which endangers their application. This situation has led to intensified research into alternative preventive and therapeutic methods. Several of these innovative solutions are discussed in this book. Within the scope of this book, the historical development of aquaculture in Türkiye and in the world is briefly mentioned, and the topics including production techniques, fish nutrition, fish health/welfare, business management, product quality and the contribution of aquaculture to the Turkish economy are evaluated in detail.