Special Issue

Advances in the Application of Microalgae in Aquaculture

Message from the Guest Editors

The rapid expansion of global aquaculture necessitates the development of sustainable feed technologies to meet increasing aquatic product demands while reducing environmental impact. Microalgae represent a revolutionary solution to this challenge, offering exceptional nutritional profiles, sustainable production methods, and multifunctional applications in aguaculture systems. Modern aguaculture faces the critical challenge of replacing traditional fishmeal and fish oil with sustainable alternatives that maintain or enhance the nutritional quality of cultured species. Microalgae emerge as ideal candidates due to their rich protein content, essential fatty acids (particularly omega-3), vitamins, minerals, and bioactive compounds. This collection will showcase innovative research on microalgae cultivation optimization, processing technologies, metabolic pathway studies. and practical implementation strategies. We invite contributions that advance our understanding of how microalgae can transform aquaculture into a more sustainable, efficient, and environmentally responsible industry for future generations.

Guest Editors

Dr. Yihong Zheng

College of Life Science and Oceanography, Shenzhen University, Shenzhen 518060, China

Dr. Wujie Xu

South China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, Guangzhou 510300, China

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Fishes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fishes@mdpi.com

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Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of Fishes is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider Fishes for your scientific papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Maria Angeles Esteban

Department of Cell Biology and Histology, Faculty of Biology, University of Murcia, 30100 Murcia, Spain

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