

# ICAF 2024

International Conference on Aquaculture and Fisheries

“Blue Revolution for Healthy People, Economy and Environment”

## BOOK OF ABSTRACTS



Organizer:



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23-25 October 2024

**Agriculture and Forestry University**  
Rampur, Chitwan, Nepal

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## ICAF 2024: Overview and Key Insights

There is a growing recognition of the important role that sustainable aquaculture and fisheries play in enhancing food and nutrition security, diversifying livelihoods, and increasing the resilience of both ecosystems and communities. Global per capita fish consumption is projected to rise from 20.1 kg in 2022 to 21.2 kg by 2030, underscoring the sector's increasing significance. In this context, the International Conference on Aquaculture and Fisheries (ICAF) 2024, scheduled for October 23-25 at Agriculture and Forestry University in Rampur, nestled in the beautiful Chitwan Valley, Nepal, will bring together a diverse array of national and international experts - including academicians, scientists, policymakers, farmers, and others - to share their experiences and research aimed at advancing the fields of aquaculture and fisheries. This Book of Abstracts presents a compilation of submissions accepted for oral and poster presentations, showcasing innovative research and insights shared at the conference. It highlights the contributions of leading researchers, practitioners, and policymakers in this vital sector.

This book includes 136 abstracts: 114 accepted for oral presentations and 22 for poster presentations, all focus on key issues and advancements in the sector. Each abstract reflects the commitment of its authors to address key challenges, such as sustainability, environmental impacts, and socioeconomic benefits, while fostering resilience in aquatic ecosystems.

Key themes and highlight:

1. **Advances in Aquaculture:** Innovations that enhance productivity and sustainability in aquaculture practices.
2. **Fish Breeding and Genetics:** Genetic advancements aimed at improving fish stock quality and resilience.
3. **Fish Nutrition and Aquatic Food:** Strategies for optimal nutrition to support fish health and growth.
4. **Fish Disease and Health Management:** Approaches for disease prevention, diagnosis, and treatment in fish populations.
5. **Ecology, Biodiversity, and Capture Fisheries:** The role of biodiversity in aquatic ecosystems and sustainable capture methods.
6. **Climate Change and Environment:** Assessing climate change impacts on aquatic environments and developing adaptive strategies.
7. **Gender in Aquaculture and Fisheries:** Highlighting women's contributions and promoting gender equity in the sector.
8. **Fisheries Education, Extension, and Policy:** The importance of education and policy frameworks for sustainable aquaculture and fisheries management.
9. **Economics, Markets, and Fisheries Products:** Understanding market dynamics and economic factors influencing aquaculture and fisheries.
10. **Farmers' and Private Sector Initiatives:** Showcasing innovative sustainability initiatives by farmers and the private sector.

As we unite to share knowledge and experiences, this conference showcases critical advancements in aquaculture and fisheries while fostering collaboration among diverse stakeholders from around the world. Together, we can address the pressing challenges facing our aquaculture sector and aquatic ecosystems, working towards a more sustainable future for all.

- The Scientific Committee, ICAF 2024

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