



APRIL 9-11, 2025

International Conference on

# MARINE BIODIVERSITY, GENOMICS, AND SUSTAINABLE DEVELOPMENT

**ICMBGSD-2025**



**VENUE : SCHOOL OF MARINE SCIENCES,  
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
KOCHI**

**ORGANIZED BY**  
DEPARTMENT OF MARINE BIOLOGY, MICROBIOLOGY AND BIOCHEMISTRY, CUSAT

**IN ASSOCIATION WITH**  
NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH (NCPOR), GOA  
&  
CUSAT-NCPOR CENTRE FOR POLAR SCIENCES



## Department of Marine Biology, Microbiology, and Biochemistry

The Department of Marine Biology, Microbiology, and Biochemistry (DMMB), originally founded as the Department of Marine Biology and Fisheries in 1938 under the University of Travancore, became part of Cochin University of Science and Technology (CUSAT), in 1971. Established to address the growing need for understanding marine ecosystems and their sustainable management, DMMB has evolved into a center of excellence. It is now one of the five departments under the School of Marine Sciences, contributing significantly to global ocean exploration and human welfare. Recognized under prestigious programs like DST-FIST, UGC-SAP, KSCSTE-SARD, and RUSA, DMMB is a research-intensive department offering state-of-the-art laboratories and advanced instrumentation. Its flagship M.Sc. Marine Biology program is among the most sought-after in India. Recently, the department introduced an M.Sc. Marine Genomics program, complementing the Marine Biology curriculum and positioning itself at the forefront of marine science research and education. The department offers doctoral programs across various disciplines and maintains active collaborations with national and international institutions. These partnerships drive groundbreaking research addressing global challenges such as marine biodiversity conservation, marine microbiology, marine biotechnology, sustainable resource management, and climate change. DMMB is also actively involved in India's Polar Research Programs, contributing to studies in the Arctic and Antarctic on climate change and biodiversity. DMMB alumni have excelled in academia, industry, and policy making, reinforcing the department's vital role in advancing marine science in India. Through its initiatives and contributions, DMMB continues to deepen our understanding of marine ecosystems, benefiting both society and the global scientific community.

### National Centre for Polar and Ocean Research (NCPOR)

National Centre for Polar and Ocean Research (NCPOR) is India's premier R&D institution responsible for the country's research activities in the Polar and Southern Ocean realms. Biological studies conducted in the Polar regions spread over a wide range of aspects from evolutionary perspectives to harnessing biotechnological potential. Researchers are studying the composition and spatial distribution of bacteria, fungi, algae, mosses and lichens in various niches thereby addressing ecological aspects.

### CUSAT-NCPOR Centre for Polar Sciences (CNCPS)

Established in the School of Marine Sciences (SMS) of CUSAT, CNCPS facilitates active participation of faculty, researchers and students from SMS in polar and ocean research. Since 2009, regular participation of faculty and research scholars are taking place and the CNCPS is showing excellent research output. Working in tandem with NCPOR the impact of CNCPS in promoting polar and ocean research is very significant.

### About the Conference

The International Conference on Marine Biodiversity, Genomics, and Sustainable Development (ICMBGSD2025) holds significant importance in the context of global environmental challenges. Oceans cover two-thirds of the Earth's surface, teeming with diverse organisms, from microscopic prokaryotes to massive blue whales. Each species plays a vital role in the marine ecosystem, which provides essential food, resources, and services to humanity. However, ongoing disruptions such as ocean acidification, rising sea surface temperatures, increased marine litter, and coastal pollution are increasingly affecting marine biodiversity. These perturbations pose a direct threat to the health of marine ecosystems, potentially jeopardizing humanity's survival on Earth.

At the same time, the ocean remains an underexplored ecosystem with immense potential for discovering novel bioactive molecules, secondary metabolites, and services that can greatly benefit humanity. The advancements in genomic sciences offer powerful tools to unlock these untapped resources. ICMBGSD2025 provides a unique platform for interaction among leading researchers, scientists, and academics in this field, offering an opportunity to assess the current state of marine ecosystems and devise strategies for the sustainable utilization of oceanic biological resources.

Marine biodiversity is crucial for vital ecosystem services such as food production, climate regulation, and carbon storage. However, these ecosystems are threatened by overexploitation, pollution, and climate change. The sustainable use of marine resources is key to achieving global goals, particularly SDG 14, which focuses on conserving oceans and their resources. The integration of marine biodiversity, genomics, and sustainable development will be essential in addressing these pressing environmental challenges and ensuring the resilience of marine ecosystems for future generations. ICMBGSD2025 will play a pivotal role in shaping the future of marine conservation and sustainable development.

### Focal Themes

- Marine Biodiversity and Conservation
- Sustainable Fisheries, Aquaculture and Blue Economy
- Marine Biotechnology and Genomics
- Marine Natural Products and Drug Discovery
- Polar Biology, Ecology, Climate Change and Ocean Health
- Marine Microbiology and Anti-Microbial resistance

### Important Dates

Registration and Abstract submission open from 20 January 2025  
Last date of submission - 20 February 2025

## PATRONS

Prof. (Dr.) M. Junaid Bushiri, Vice Chancellor, CUSAT  
Dr. M. Ravichandran, Secretary, Ministry of Earth Sciences, GoI  
Prof. (Dr.) Arun A. U., Registrar, CUSAT  
Dr. Thamban Meloth, Director, NCPOR, Goa

## CHIEF CONVENOR

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Mr. Ritam Guha, JRF, DMMB, CUSAT

## Venue of the Conference: Cochin, Kerala, India

Cochin, known as the "Queen of the Arabian Sea," is a historic port city that played a pivotal role in ancient spice trade routes. Its rich cultural heritage blends Portuguese, Dutch, and British influences. Geographically, it features serene backwaters and picturesque beaches and serves as a gateway to Kerala's scenic landscapes and traditions. The seminar will be held at the School of Marine Sciences of Lakeside Campus of CUSAT at Foreshore Road, Kochi, offering a panoramic view of the serene Cochin backwaters.

### Abstract Submission

The deadline for abstract submission is February 10, 2025. All submitted abstracts will undergo a review process by a panel of experts and will be selected for oral or poster presentations. At least one author of the accepted abstract must register for the conference by paying the required registration fee. Only registered participants will be allowed to present and attend the sessions.

Detailed guidelines for abstract submission, along with a model template, can be downloaded from the conference website <https://icmbgsd2025.cusat.ac.in>

### Oral Presentations

Technical sessions will focus on the listed thematic areas and will run concurrently. Selected papers will be allocated slots for oral presentations. The best papers from each thematic area will receive awards, recognizing their excellence.

### Poster Presentations

Authors are encouraged to showcase their research in poster sessions, which hold equal importance to oral presentations and are open to all thematic areas. Detailed instructions for preparing posters will be provided to interested authors. The best posters will also be awarded to recognize outstanding contributions.

The Young Scientist Award will be presented to the most outstanding young scientist.

## Registration fee

Students: 500/-

Research Scholars: 1500/-

Faculty/ Scientist: 3000/-

Faculty/ Scientist (International): USD 250

(The registration fees will cover admission to the conference, conference materials, lunch, and refreshments)

## Bank details

Account name: Chief convenor, Head, Department of Marine biology,

Microbiology & Biochemistry

Account no: 925010001361154

Bank name: AXIS BANK LTD

Branch: THRIKKAKARA

IFSC code: UTIB0001161

