

# JBS7

7<sup>TH</sup> INTERNATIONAL

# Jellyfish

## BLOOMS SYMPOSIUM

JELLYFISH, ECOSYSTEMS AND HUMANS



21-25 NOVEMBER 2023

VENUE:

**Kerala Arts and Crafts Village**

Kovalam, Thiruvananthapuram, Kerala, India

VENUE OF WORKSHOP:

**Department of Aquatic Biology & Fisheries**

University of Kerala, Karyavattom Campus

Thiruvananthapuram, India

*Organized by*

**UNIVERSITY OF KERALA**

Department of Aquatic Biology & Fisheries

&

**ICAR-CENTRAL MARINE FISHERIES RESEARCH INSTITUTE**

Kochi, India



<https://jbs7.in/>



2021-2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development

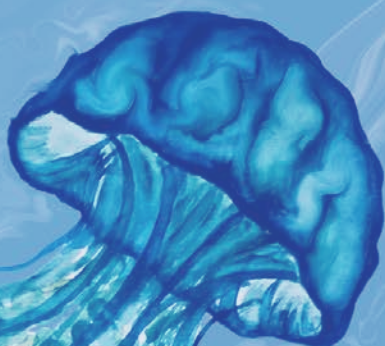
7<sup>TH</sup> INTERNATIONAL

# Jellyfish



## BLOOMS SYMPOSIUM

JELLYFISH, ECOSYSTEMS AND HUMANS



The International **Jellyfish Blooms Symposium (JBS)** is the recurrent get-together of the global jellyfish research community. The JBS brings together researchers from all over the world to meet, interact and share up-to-date research on the topic, discuss issues, future scenarios and innovations in research, inspire researchers, and develop networks to collaborate.

Scientific awareness about jellyfish and jellyfish blooms has increased markedly in the past few decades due to frequent reports of jellyfish blooms in some parts of the global ocean and concerns about their impacts on marine ecosystems and human society. The emerging areas of research in this field include the ecological processes driving the jellyfish populations, possible implications of the blooms on sustainable fisheries and livelihoods, the critical role of jellyfish in sustaining marine biodiversity, evolutionary genomics of jellyfish and symbionts, and the use of jellyfish as a model organism in cutting edge research in ocean science.

Ever since the first International Jellyfish Blooms Symposium in 2000, the event has become a major platform to address ecological and societal issues of jellyfish blooms around the world, and so far held in major cities spread across six continents:

1. Gulf Shores, Alabama, USA: 2000
2. Gold Coast, Queensland, Australia: 2007
3. Mar del Plata, Buenos Aires Province, Argentina: 2010
4. Hiroshima, Japan: 2013
5. Barcelona, Spain: 2016
6. Cape Town, South Africa: 2019

The Seventh International Jellyfish Blooms Symposium (JBS7) will be held in India, one of the leading countries in jellyfish diversity.

JBS7 will be an opportunity to share and learn about current and future research on jellyfish in different parts of the globe, consolidate knowledge on the subject, and discuss innovations to address questions for future research and collaborations.

The seventh edition of the symposium will be an opportunity to focus on outreach connecting ocean science with sustainability in the United Nations Decade of Ocean Science for Sustainable Development (2021-2030).

# JBS7



# ORGANISERS



**University of Kerala**  
<https://www.keralauniversity.ac.in>



**ICAR-CMFRI**  
<https://www.cmfri.org.in>

**C**rafted by a legacy of excellence, the University of Kerala, India, established in 1937, is accredited with a top-most ranking of A++ by the National Assessment and Accreditation Council (NAAC) of India. A Higher Education Institution of eminence, this university has 44 teaching and research departments and several multidisciplinary research centres, replete with state-of-the-art Central Instrumentation and Laboratory Facility (CLIF). One of the country's largest and oldest Public Universities, the University aims to cultivate a passion for knowledge that goes beyond disciplinary boundaries and contributes towards the nation's knowledge economy, besides contributing to the UN Sustainable Development Goals.

The Department of Aquatic Biology & Fisheries, a Centre of Advance Study of the University Grants Commission of India, aims to contribute through research and education, to the increase of the scientific knowledge on aquatic ecosystems, including oceans, with a focus on aquatic ecology, fisheries management, biodiversity documentation, eco-restoration, aquaculture, and fisheries extension, besides cutting-edge and interdisciplinary areas such as aquatic ecosystem modelling, molecular phylogenetics, aquaculture technology, marine pharmacology and blue economy.

The department initiated specific ocean education activities in the Decade of Ocean Science for Sustainable Development (2021-2030), focusing on the sustainable use of ocean resources through community networking.

**T**he ICAR-Central Marine Fisheries Research Institute (CMFRI) was established by the Govt. of India on 3<sup>rd</sup> February 1947 under the Ministry of Agriculture and later shifted to the ICAR in 1967. During the course of over 75 years since inception, the institute has emerged as a leading tropical marine fisheries research institute globally.

The research efforts by the institute contributed significantly to India's marine fisheries development from a predominantly artisanal, sustenance fishery till the early sixties to that of a multi-gear, multispecies fishery. CMFRI has also developed successful technologies for breeding and seed production of high-value food/ornamental marine organisms as well as pioneered mariculture in India.

Institute also addresses researchable issues in marine biotechnology, fish health nutrition, genetics, genomics, marine biodiversity and climate change. Fisheries management plans for all maritime states of India are formulated by the institute. The prestigious Sardar Patel ICAR Outstanding Institution Award was bestowed on CMFRI twice, in 2007 and 2019.



## TECHNICAL SESSIONS

JBS-7, scheduled to be held from **21-25 November 2023** at Thiruvananthapuram, India, will focus on six major themes and more than 200 delegates are expected to participate, in addition to lead/invited talks by eminent scientists across the globe. The six major themes are:

- 1. Jellyfish–Human interactions: Status, trends and sustainable livelihoods**
- 2. Jellyfish associations**
- 3. Jellyfish: Bioinspiration and applications**
- 4. Jellyfish: envenomation – from stings, management, to ‘omics’**
- 5. Organismal biology and ecology**
- 6. Diversity, Integrative Taxonomy, and Biogeography**

## SPECIAL SESSION

**Jellyfish fisheries and Trade: Status, Trends and Impacts on Livelihood.**

Technical sessions will be finalised only after abstract submission closes.

## PRESENTATION SCHEDULE

Each half-day (morning and post-lunch sessions) will begin with a plenary (25 mins talk, 5 mins Q&A) which will be attended by all delegates, followed by a contributed session.

Contributed talks (selected oral presentations) will be 15 mins (12 mins talk, 3 mins Q&A) and 3 mins (lightning/poster talks) duration; an individual can give only one talk but may present multiple posters.

## CONFERENCE MODE

The JBS-7 will be held “in person”.

### **Hybrid mode:**

The online participants can attend the whole session and make poster presentations.





## REGISTRATION/ HOW TO REGISTER

Delegates can register online by following the guidelines given on the Symposium Website <https://jbs7.in/>. Online payments can be made through bank transfer/credit card/UPI Transfer.

Stage	International (US\$)	Indian (₹)
<b>Early Bird Registration</b> (Up to 30 September 2023)	Students: USD 150 ■ Students from LDCs: USD 100 Delegates: USD 300 ■ Delegates from LDCs: USD 150	Students: INR 3,000 Delegates: INR 6,000
<b>Standard Registration:</b> (01 October 2023 to 10 November 2023)	Students: USD 200 ■ Students from LDCs: USD 150 Delegates: USD 400 ■ Delegates from LDCs: USD 200 Accompanying Person/Companion (if attending the symposium): USD 100 Hybrid Mode: USD 100	Students: INR 4,000 Delegates: INR 8,000 Spot Registration: Accompanying Person/Companion: INR 3,000 No Spot Registration Hybrid Mode: INR 4,000 No Spot Registration

\*Special Package for LEAST DEVELOPED COUNTRIES (LDCs)  
 (based on the list: <https://unctad.org/topic/least-developed-countries/list>)

**Currency converter:** For the conversion/exchange rate of foreign currencies to Indian Rupees (INR) from time to time, refer: <https://www.rbi.org.in/HOME.ASPX>

Limited travel grants may be provided for students from developing countries based on fund availability

**Registration fee includes** Conference material (conference bag, abstract book and schedule in pen drive/mobile app, morning and afternoon break refreshments, working lunch, the welcome cocktail party on 21 November 2023, Gala Dinner on 25<sup>th</sup> November 2023 and local site-seeing tour.

## HOW TO REGISTER

Online payments can be made by following the directions given on the JBS-7 website. (<https://jbs7.in/>)



## CALL FOR ABSTRACTS

### Abstract submissions

Abstracts can be submitted online after registration. All abstracts will be reviewed by an international panel of experts and selected for oral/poster presentations. At least one of the authors must register by paying the required registration fee, and only those who have registered for the conference will be allowed to attend.

### Abstract Guidelines

- Language: English
- Number of words: 250
- Format: MS Word
- Font: Times New Roman
- Font size: 12pt
- Line spacing: 1

The abstract should indicate the abstract type (oral/poster) and the author's surname at the top of the page. A model template can be downloaded from Symposium Website. (<https://jbs7.in/>)

### Online Participants

Online participants can submit abstracts for poster presentation.

## VENUE

### Kerala Arts and Crafts Village

Kovalam, Thiruvananthapuram, Kerala, India



# INVITED PLENARY SPEAKERS



**Dr Mark John Gibbons**  
Professor, Department of  
Biodiversity and Conservation  
Biology, University of the  
Western Cape, Republic of  
South Africa



**Dr. Tinkara Tinta**  
Marine Biology Station  
Piran, National Institute  
of Biology, Slovenia



**Dr. Ames Cheryl Lynn**  
Tohoku University,  
Japan



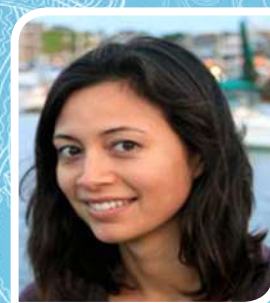
**Dr. Jamileh Javidpour**  
Department of Biology,  
SDU, Denmark



**Dr. Cornelia Jaspers**  
Technical University of  
Denmark



**Dr Allen Collins**  
Smithsonian National  
Museum of Natural  
History, Washington,  
USA



**Dr Kakani Katija**  
Monterey Bay Aquarium  
Research Institute  
California, USA



# OTHER LEAD SPEAKERS



**Dr. Michael N. Dawson**  
Professor, Department  
of Life & Environmental  
Sciences, University of  
California, Merced, USA



**Antonio C. Marques**  
Professor, Department  
of Zoology at the  
Universidade de São  
Paulo, Brazil



**Dr Kylie Pitt**  
Professor, School of  
Environment and  
Science, Griffith  
University, Australia



**Dr. Dror Angel**  
Dept of Maritime  
Civilizations, University  
of Haifa, Israel



**Dr Thomas Doyle**  
Professor, School of  
Biological, Earth and  
Environmental Sciences  
University College Cork,  
Ireland



**Dr Andre C.  
Morandini**  
Professor,  
Department of  
Zoology, Sao Paulo  
University, Brazil

## JBS7 Workshop: Integrative Taxonomy

**25–27 November, 2023**

This workshop aims to transfer skills and resources from established researchers applying the practices and principles of integrative taxonomy to those who wish to learn or hone these techniques. Over the course of three days, we will consider field collection methods, morphological measurements and analyses, ways to gather and analyze genetic information, and their integration. We also will set the scene for using integrative taxonomy to provide a foundation for greater understanding of biodiversity, conservation, ecology, and evolution. The workshop will focus on examples from the medusae, but the approaches are generally applicable.



### Instructors

- **Dr Liza Gómez Daglio**, Fresno City College, California, USA.
- **Dr Andre C. Morandini**, Department of Zoology, Sao Paulo University, Brazil
  - **Dr Allen Collins**, Smithsonian National Museum of Natural History, Washington, USA
  - **Prof Michael N Dawson** University of California, Merced

**Note:** *The interested participants need to apply separately for the workshop (see the website for the registration link.*

### Registration fee

100 USD (for Students from outside India)  
200 USD (Other Delegates from outside India)  
INR 5,000 (Students from India)  
INR 8,000 (Indian research scholars)



## OUR EVENT PARTNER

Kerala Travels Interserve (<https://keralatravels.in/>)

For Air Tickets to India, visa and local tour-related enquiries, please contact:

**Susan Mammen**, Customer Happiness Officer

Mob : **+91 96056 44000**

email : [susan.mammen@keralatravels.org](mailto:susan.mammen@keralatravels.org)

## TOUR PACKAGES

### Magical Kerala

- TRIP TO KANYAKUMARI (where three Oceans meet)
- One Day City Tour (Trivandrum - Jatayu Earth Center)
- Alleppey – Cochin

### All India Tours

- Golden Triangle: Delhi – Agra – Jaipur
- Forts & Palaces of Rajasthan

**Specific Tour Packages may be arranged for the JBS7 delegates on request**

## ACCOMMODATION

For Booking your rooms at concessional rates exclusively for the JBS7, please contact

**Susan Mammen**, Customer Happiness Officer

Mob : **+91 96056 44000** / email : [susan.mammen@keralatravels.org](mailto:susan.mammen@keralatravels.org)

For specific queries related events/side events at the venue contact:

**Satheesh Ampadi**, GM, Kerala Travels, Mob : **+91 98476 98476** / email: [satheesh@keralatravels.org](mailto:satheesh@keralatravels.org)

## IMPORTANT DATES

- Submission of Abstract: Closes by **31 July 2023**
- Last Date for Early bird registration: **30 September 2023**
- Abstract Acceptance Date: Before **15 August 2023**  
(or after international committee meetings)
- Registration: **15 July 2023** and closes by **10 November 2023**

### Visa information

[https://www.mha.gov.in/PDF\\_Other/AnnexI\\_01022018.pdf](https://www.mha.gov.in/PDF_Other/AnnexI_01022018.pdf)

### Vaccination

<https://www.ivisa.com/india/blog/india-vaccination-requirements-do-i-need-a-vaccine-to-travel-to-india>



Chelsea Football Club on Virtual Tour to Kerala Backwaters



Wimbledon shakes hands with Kerala's own boat race



## About Thiruvananthapuram (Trivandrum), Kerala, India

Thiruvananthapuram (Trivandrum), the capital city of Kerala State, is named after Anantha Padmanabha or Lord Vishnu, with the landmark Sree Padmanabha Swamy Temple around which the city has been built on seven low hills. The wooded highlands of the Western Ghats (a global biodiversity hotspot) in the eastern and northeastern borders and the Arabian Sea in the west give Thiruvananthapuram some of the most enchanting picnic spots. Referred to by Mahatma Gandhi as the “Evergreen city of India”, a long shoreline with internationally renowned beaches, historic monuments, backwater stretches, and a rich cultural heritage makes this place a much sought-after tourist destination. Thiruvananthapuram is a notable academic and research hub and home to several reputed academic and research institutions in India.

Find out more about Kerala Tourism- <https://www.keralatourism.org>

*Package tour details will be available in the website.*



**Kerala: one of  
the 52 places to  
visit in 2023.**  
*New York Times*



# Organising Committee

## International Advisory Board

**Prof. Antonio Marques**, Department of Zoology, Institute of Biosciences, University of São Paulo, Brazil

**Prof Biju Kumar, A.**, Head, Department of Aquatic Biology & Fisheries, University of Kerala

**Prof Dror Angel**, Department of Maritime Civilizations, University of Haifa, Israel

**Dr A Gopalakrishnan**, Director, ICAR-CMFRI, India

**Dr Jing Dong**, Liaoning Ocean and Fisheries Science Research Institute, Dalian, PR China

**Dr Kelly Sutherland**, Oregon Institute of Marine Biology, University of Oregon, USA

**Prof Kylie Pitt**, Marine Science, Griffith University, Queensland, Australia

**Prof Mark Gibbons**, Department of Biodiversity and Conservation Biology, University of the Western Cape, South Africa

**Prof Mike Dawson**, Life and Environmental Sciences, University of California, Merced, USA (Chair)

**Dr Tom Doyle**, School of Biological, Earth and Environmental Sciences, University College Cork, Ireland

## National Advisory Board

**Prof Mohanan Kunnummal**, Vice Chancellor, University of Kerala

**Dr Himanshu Pathak**, Secretary DARE & DG, ICAR, New Delhi

**Dr J.K. Jena**, DDG (Fisheries Division), ICAR, New Delhi

**Dr U.K. Sarkar**, Director, NBFGR

**Prof Pradeep Kumar T.**, Vice Chancellor, Kerala University of Fisheries and Ocean Studies (KUFOS)

**Dr. P.G.Sankaran**, Cochin University of Science and Technology (CUSAT)

**Dr Dhriti Banerjee**, Director, Zoological Survey of India

**Dr G.V.M. Gupta**, Centre for Marine Living Resources and Ecology (CMLRE)

**Dr Sunil Kumar Singh**, Director, National Institute of Oceanography, Goa

**Dr Srinivasa Kumar Tummala**, Director, Indian National Centre for Ocean Information Services (INCOIS)

## Mentors

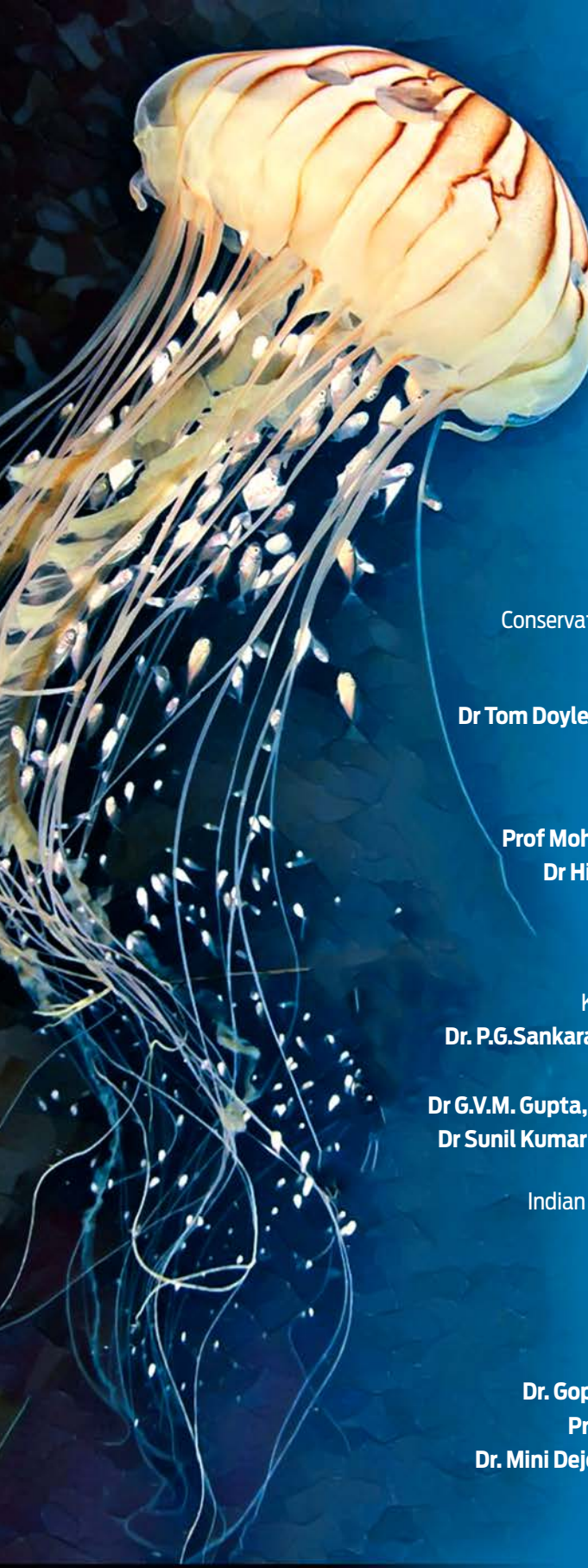
**Shri SajiCheriyann**, Minister for Fisheries, Culture and Youth Affairs, Government of Kerala

**Dr. S. Nazeeb**, Member, Syndicate, University of Kerala

**Dr. Gopchandran K. G.**, Member, Syndicate, University of Kerala

**Prof. (Dr.) K. S. Anil Kumar**, Registrar, University of Kerala

**Dr. Mini Dejo Kappen**, Planning & Development, University of Kerala



# Local Organising Committee

## Convenor

Dr A. Gopalakrishnan, Director, CMFRI

## Co-convenors

Dr. K. Padmakumar, UoK

Dr Sobhana, K.S., CMFRI

## Organising Secretary

Dr A. Biju Kumar, Department of Aquatic Biology & Fisheries,  
University of Kerala

## joint Organising Secretaries

Dr Sreenath, R., CMFRI

Dr. Pramod Kiran, R.B., UoK

## Working Committee (Convenors)

Dr KV Jayachandran, UoK

Dr. K. Sobhanakumar, UoK

Dr SM Raffi, UoK

Dr. Suvarna Devi S., UoK

## Members

Dr. Kurian Mathew Abraham, UoK

Dr. Mithun Sukumaran, UoK

Dr. Arathi AR, UoK

Mr. Abhilash G, UoK

Dr. B. Santhosh, CMFRI

Dr. Grinson George, CMFRI

Dr. Miriam Sreeram, CMFRI

Dr. Chandru Sekar, CMFRI

Dr. Raju Saravan, CMFRI

Dr. Ranjith L., CMFRI

Dr. Pralaya Ranjan Behera, CMFRI

Dr. Ratheesh Kumar, CMFRI

Dr. Shelton Padua, CMFRI



## INTERNATIONAL PHOTOGRAPHY COMPETITION

(Photos of Jellyfish  
and Jellyfish Blooms in  
its Natural Habitats)

Details  
soon in the  
Website

## CONTACT US

Prof. A. Biju Kumar  
Organizing Secretary (JBS7)

Department of Aquatic Biology & Fisheries  
University of Kerala, Thiruvananthapuram 695 581, Kerala, India

Email: [jbs7india@gmail.com](mailto:jbs7india@gmail.com) | Phone: +91-471-2309131

WhatsApp: +91-8921865558 | <https://jbs7.in>