



ICAR sponsored
winter school on

**“Marine nutrients for fighting
malnutrition: Recent advances in
marine biomolecules for human
nutrition and healthcare”**

1st – 21st February, 2018

Course Co-ordinator

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Co-ordinators

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Organized by:



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About CIFT

ICAR-CIFT is a premier National Institute in the country which caters to the need of pre-and post-harvest sectors of fisheries. During its 60 years of existence, the Institute has served the nation in developing novel fishing crafts and gears for marine and inland waters; quality assurance systems for fish and fishery products; testing facility for bacterial and viral pathogens; developed fish processing and preservation technologies; packaging methods, new biomaterials and innovative value added bioactive compounds from marine resources. Major achievements of the Institute include ISO 9001- 2008 certification; NABL accreditation on ISO 17025 – 2005; recognized as FSSAI approved referral laboratory; development of e-depository in library system and Business Incubation Center and pilot plant for transfer of technology.

Biochemistry & Nutrition Division

The Biochemistry and Nutrition Division of ICAR-CIFT, Cochin is equipped with modern analytical facilities *viz.* HPLCs, GCs, GC-MS, Supercritical Fluid Extraction System, ELISA, Western Blotting, Electrophoresis Units, AAS, Particle-Size Analyzer, Iatrosan, Rheometer and CPCSEA- Approved Animal House. The Division has vast experience in the field of extraction and characterization of bio-active compounds from marine sources, nutrient and contaminant profiling of fish and fishery products, developing nutraceuticals from marine bio-waste and elucidation of molecular mechanisms of action of marine bio-molecules.

Theme of the Winter school

Marine ecosystems are considered to be as a rich repositories of diverse bioactive compounds with potential applications in both biomedical and functional food industries. Many of these bio-molecules are being recognized as functional food ingredients and are being used in commercial food preparations. Moreover, certain marine based bioactive compounds are currently reported to undergo an advanced stage of clinical trials with a few of them already being marketed as safer drugs. Recently, with advancements in technologies, many innovative and sustainable extraction techniques such as supercritical fluid extraction have been introduced for the isolation of many biomolecules. The winter school is aimed at giving an overview about the marine biomolecules, their extraction and characterization using novel methods, and their applications in food industries.

Eligibility criteria to apply

Either:

- Master's Degree in Agricultural Sciences or allied disciplines and
- Working not below the rank of Assistant Professor/ Scientist or equivalent in the related theme of the Winter School under State/Central Agricultural University/ICAR Institute

How to apply?

Interested candidates may submit the application online (www.cbp.icar.gov.in) and a hard copy of the same with the approval of the competent authority may be sent to the course Director's e-mail ID (suseela1962@gmail.com/winterschoolcift@gmail.com). The last date for receipt of application is 15-01-2018.

Registration fee of Rs.50/- (Rupees fifty only) per participant is fixed as per ICAR guidelines. The fee should be sent through demand draft drawn in favour of "Director, ICAR-CIFT, Cochin-682029" payable at Ernakulum, along with completed application form, forwarded through proper channel and with official seal.

Winter school course outline:

The winter school will have theory and practical classes on various aspects of marine biomolecules, their applications in human health care, significance of marine lipids and pigments, nutrient and contaminant profiling, bio-modulation of marine biopolymers, analytical techniques to determine marine nutrients, general principles of chromatographic techniques, novel extraction techniques for isolation of biomolecules, ELISA, western blotting, electrophoresis & AAS-principle and applications, animal care, breeding, management and experimentation in lab animals etc.

Venue

The winter school will be held at ICAR-CIFT, Cochin from 1st – 21st February, 2018.

How to reach CIFT?

ICAR-CIFT, Cochin is located about 6.5 km from Ernakulum South railway station and about 9 km from Ernakulum North railway station and K.S.R.T.C bus stand.

Boarding and lodging

Free lodging and boarding will be provided to the participants in the Institute's Trainees' Hostel/guest house as per ICAR guidelines. The Institute has trainees' hostel with dining at CIFT residential campus, Perumanoor, Thevara. The participants should abide by the rules and regulations of the trainees' hostel/guest house. Participants are requested not to bring their family members due to limited accommodation facility.

Travel

Participants will be paid travel fare to and from by shortest route from their institution to ICAR-CIFT, Cochin by rail (Maximum Class of AC II only) or bus as the case may be, as per ICAR rules. Participants are required to produce original rail and bus tickets for reimbursing the travel expenditure.

Address for correspondence

Dr. Suseela Mathew,
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Matsyapuri P.O, W.Island, Cochin-682029

Application form

1. Name (in block letters)
 2. Designation
 3. Present employer address
 4. Address to which reply should be sent
 5. Permanent address
 6. Date of birth
 7. Sex
 8. Teaching / research / professional experience (mention post held) during last 5 years and number of publications
 9. Marital status
 10. Mention if you have participated in any research seminar, Summer / Winter / Short Courses etc. during last five (5) years under ICAR / Other Organizations
 11. Draft / Postal order for Rs. 50/- (in favour of Director, ICAR-CIFT, Cochin - 682029 towards registration (non-refundable)
 12. Academic record
Signature of the applicant
Place
Date
 13. Recommendation of the head of the forwarding Institute
- Certificate:
This is to certify that that the information furnished by the applicant was checked with office records and was found correct.
- Signature: _____ Designation: _____
Address: _____ Date: _____