

VIRTUAL
CSIR Integrated Skill Initiative
on
**“MICROALGAL DIVERSITY AND
THEIR BIOTECHNOLOGICAL
POTENTIALS”**



CSIR- Integrated Skill Initiative



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CSIR-CSMCRI



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CSIR-CSMCRI



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CSIR-CSMCRI

CSIR- Central Salt & Marine Chemicals Research Institute

27 – 29 January 2021.

Preface

Microalgae are tiny single/multi-cellular photosynthetic cells, that can proliferate rapidly and generate huge biomass. They are the primitive life on the planet earth with oxygenic photosynthetic capability making the entire biosphere rich in oxygen for other creatures to respire since the Precambrian era. They are classified based on their variety of sizes, structures and forms. Microalgae in general consist of several important metabolites, such as sugars, protein, lipids and bio-silica etc.

Microalgae have gradually drawn attention of scientists, entrepreneurs for their high-value products, feed supplements of human as well as for animal, transport fuels, industrial chemicals, pharmaceuticals etc.

The past decades have witnessed continued and substantial progress to establish microalgae as a unique source of high-value compounds and therapeutic substances as a promising biofuel feedstock in response to the uprising energy crisis, climate change and depletion of natural sources. Microalgae being an excellent source of pigments (carotenoids and phycobiliproteins), proteins, vitamins, enzymes, minerals, amino acids, lipids, γ -linolenic acid, and biopolymer, recently has received more attention towards the integrated processes including food, feed, fuel and pharmaceuticals, considering its unique chemical composition, if exploited in an efficient manner through optimized upstream and downstream processing.

These intracellular and extracellular compounds, due to its potential high value applications are sought globally for which strategy for efficient exploitation of the microalgae is being developed. Developing pure culture of a required strain to do their mass cultivation and downstream processes for extraction of valuable products require skills to handle such microorganisms for biotechnological applications at large scale.

This program will generate awareness towards the importance of microalgae, downstream and upstream process and the products through digital and practical demonstrations.

TECHNICAL LECTURES

27 Jan 2021 at 4:30-5:00 PM

“Avenues of Products from Microalgae”

27 Jan 2021 at 5:00 -6:00 PM

“Morphology and Diversity of Microalgae

28 Jan 2021 at 5:00-6:00 PM

“Methods of Molecular identification”

29 Jan 2021 at 4:00-5:00 PM

“Mass cultivation techniques of Microalgae”

29 Jan 2021 at 5:00-6:00 PM

“Downstream processing of Microalgae”

“Microalgal diversity and their biotechnological potentials”

Date: 27 January – 30 January, 2021

REGISTRATION FORM

Name _____
(First name) _____ (Last name) _____

Gender Male Female Date of Birth ____/____/____

Home Address _____

Organization/company _____

Aadhar Card No. _____

Educational qualification _____ Sponsored by/ Self interested _____

Contact no. (Home) _____ (Mobile) _____

Registration fee: Government/ Industry

Students / Self Interested

: ₹ 500/- +18%GST/-

Sponsored/ Entrepreneurs

: ₹ 1000/- +18%GST/- (Only)

DIGITAL PAYEMENT ONLY WILL BE ACCEPTED and NO CASH TRANSACTION DURING REGISTRATION FEES PAYMENT WILL BE ALLOWED)

Payment details (RTGS / NEFT /INTERNET BANKING)

Amount (INR): _____

Bank Name _____

Branch Name _____

Account No. _____

Transaction No./ID _____

Transaction Date: _____

Account details for Payment :

Account Holder : Director, C.S.M.C.R.I.

Bank: State Bank of India (SBI)

Branch: Waghawadi Road, Bhavnagar

Account No: 30267310153

IFSC Code: SBIN0010863

MICR Code: 364002023

Note: Please send the receipt of fees deposition, updated CV, scanned copy of recent passport photocopy and Aadhar card along with filled registration form for further necessary action.

Kindly submit completed form on/ before 24 January 2021,

To Dr. Subir Kumar Mandal at email : skmandal@csmcri.res.in , +91-9426284820

NOTE: Candidates with all required information and fees deposited through digital mode only will be selected for the above said training program.

Experts:

Dr. Subir Kumar Mandal, is working as Senior Scientist in CSIR-CSMCRI, Bhavnagar He is working on microalgal diversity, harmful algal blooms (HABs) and Bio-prospecting microalgae. credit.

Dr Avinash Mishra is working as Principal Scientist in CSIR-CSMCRI, Bhavnagar, Gujarat, India. He is having expertise on plant molecular biology and also seaweed metabolomics. He has also worked on Molecular Systematics and Molecular Phylogeny.

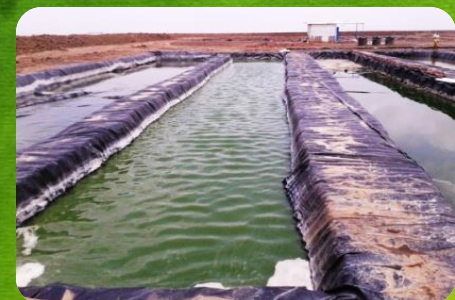
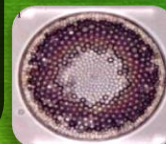
Dr. Sourish Bhattacharya is working as a Scientist at CSIR-CSMCRI, Bhavnagar Gujarat, India. He is having a strong background in the area of microalgal biotechnology, microalgal biofuel, biopolymers and nutraceuticals for therapeutic applications.

Dr. Dineshkumar R. is working as a Senior Scientist in CSIR-CSMCRI, Bhavnagar, India. His work focuses on designing and optimizing upstream and downstream processes for improved manufacturing of bio-products that benefits the society in the sectors of healthcare, energy and environment.

Dr. Arup Ghosh is working as a Principal Scientist in CSIR-CSMCRI, Bhavnagar, India. His has wide experience in the field of microalgal aspects including cultivation and stress tolerance. He has also expertise in value addition of microalgae for biofuel, fertilizer, and environmental remediation applications.

Contact :

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