2nd International Symposium on Advances in Algal Research

17 - 18 December, 2024

ALGAL RESEARCH

Recent trends in algal research have significantly expanded the scope of applications, highlighting algae's potential to address various environmental and economic challenges. Initially celebrated for their role in biofuel production, algae are now recognized for their diverse functionalities in sustainable practices. One prominent trend is the use of algae in nutrient upcycling and wastewater treatment. Microalgae, known for their adaptability to various environmental conditions, can utilize the organic content in wastewater as a carbon and nutrient source, rendering the process both efficient and cost-effective. This dual functionality of treating wastewater while producing biomass for further applications underscores the versatility of algae. Advancements in biotechnological research have further propelled algal research, particularly at the genetic level. Genetic engineering is being employed to enhance the efficiency of microalgae in wastewater treatment and to increase the yield of valuable compounds. This includes the production of nutraceuticals, bioactive compounds, and other high-value products, which contribute to the economic viability of algal biorefineries. Another emerging trend is the focus on biovalorization of algal biomass. Researchers are exploring innovative methods to convert algal biomass into various high-value products, such as bioplastics, pharmaceuticals, and cosmetics. This approach not only adds economic value but also supports circular economy principles by minimizing waste and maximizing resource utilization. Moreover, the exploration of algae as a tool for carbon capture and sequestration is gaining traction. Algae's rapid growth rates and high carbon fixation capacity make them suitable for mitigating greenhouse gas emissions, contributing to climate change mitigation efforts.

In pursuit of these goals, the Advances in Algal Research (AAR-2024) conference aims to bring together prominent academicians, researchers, and industry experts to share their experiences and findings across various aspects of algal research. This event will serve as an interdisciplinary platform for emerging researchers to present and discuss the latest innovations, trends, challenges, and solutions in the field of algal biorefinery. By facilitating collaboration and knowledge exchange, AAR-2024 seeks to advance the development and application of algal technologies, contributing to sustainable and impactful solutions.

Venue: Jawaharlal Nehru Technological University (JNTUH), Hyderabad

- The Symposium will be jointly hosted by: **IITG & JNTUH.**
- Patron: **Prof. Devendra Jalihal** & **Sri Burra Venkatesham, (IAS)**
- Chairs: **Prof. Kaustubha Mohanty** & **Dr. S. Venkata Mohan**
- Convenor: **Prof. V Himabindu**
- Joint Convenor: **Dr. Satya Sundar Mohanty**

Theme:

- **Algal-Based Carbon Neutrality and Green Technologies**
- **Algal Biotechnology for Circular Economy**
- **Smart technologies and automation in algal cultivation**
- **Algae for Sustainable Agriculture and Food Security**
- **Algae-Derived Therapeutics and functional foods**
- **Algae and Synthetic Biology for Environmental Remediation**
- **Innovative Applications of Macroalgae in Bioengineering**

Important dates:

01st Sep 2024	Abstract submission open
30th Sep 2024	Abstract submission closes
30th Sep 2024	Intimation of Abstract Acceptance
30th Sep 2024	Registration opens
15th Oct 2024	Registration closes

Abstract needs to be submitted to
algalrestech@gmail.com

Registration:

National	
Student (including Post-doc)	3,000 INR
Faculty/Scientist	7,000 INR
Industry	12,000 INR
International	
Student (including Post-doc)	200 $
Faculty/Scientist	300 $
Industry	400 $

On the spot, registration is not allowed.

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