



**One Day Workshop on**

## **ADVANCES IN MICROBIAL BIOMASS CONVERSION INTO GREEN ENERGY AND VALUE-ADDED PRODUCTS**

**18<sup>th</sup> January, 2024**

**Organized by**

**Academy of Microbiological Sciences,  
Association of Microbiologists of India**

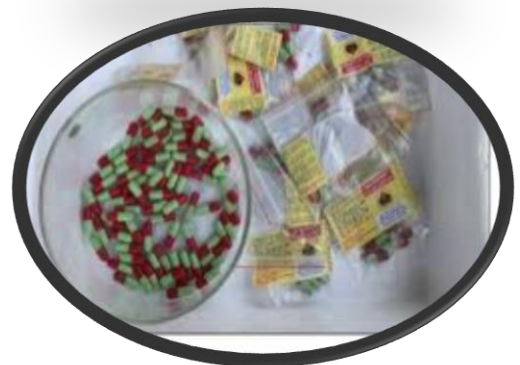
**Division of Microbiology, ICAR-  
IARI, New Delhi.**

**Venue**

**Division of Microbiology, ICAR-IARI, Pusa Campus,  
New Delhi -110012**

**M**icrobes play a very vital role in ecosystem sustainability through nutrient recycling. There is vast arena of functions performed by various groups of microorganisms in agriculture and allied sectors like fermentation, food processing, besides natural decomposition of organic materials.

The country's biomass availability estimations are above 500 million metric tonnes annually. According to Ministry of New and Renewable Energy (MNRE) statistics, the extra biomass from agricultural and forestry waste is expected to reach 120–150 million metric tonnes annually most of which are subjected to burning. Burning leads to entire loss of C, 80 % N, 25 % P, 20 % K and 5-60 %S in rice straw and loss of 28-31 Kg /ha  $N+P_2O_5+K_2O$  from soil.



These residues can be valorized for compost, mushroom and bioenergy (bioethanol, bio-CNG etc) production. The Government of India notified the National Policy on Biofuels – 2018 (NPB–2018) on 4.06.2018 wherein, under the Ethanol Blended Petrol (EBP) Program, an indicative target of 20% blending of ethanol in petrol by 2030 was laid out. Galvanizing Organic Bio-Agro Resources Dhan (GOBARdhan) is an umbrella initiative of Government of India which covers the entire gamut of schemes/programmes/policies promoting the conversion of organic waste like cattle dung/ agri-residue to biogas/ CBG/ Bio CNG. This conversion of biomass into value added products will help in promoting circular economy, effective waste management, reduce GHG emission, increase employment, generate organic manure, save foreign exchange and protect health and environment.

Now a days there is greater emphasis on green technologies due to harmful impact of industrialization process and excessive use of synthetic chemicals in modern society. There is an urgent need to develop eco-friendly technologies to cope up with climate change as a result of global warming conditions on earth.

In this context it is very much pertinent to organize One Day Workshop on “**ADVANCES IN MICROBIAL BIOMASS CONVERSION INTO GREEN ENERGY AND VALUE-ADDED PRODUCTS**” for sensitization of current and future research scholars on various aspects of agricultural crop residue management and development of wealth from agricultural waste. This program is being organized under the aegis of Academy of Microbiological Sciences, Association of Microbiologists of India and Division of Microbiology, ICAR-IARI, New Delhi.

**Registration Fee:** All the participants have to register online/ offline before 12<sup>th</sup> January 2024. There are only 50 slots available for poster presentation and acceptance will be based on first come first basis. The selected students will have to bear their travel, lodging and boarding expenses at their own end. Registration fee is Rs. 250/- only per participant. The link for online registration is given below [google](#) forms:



<https://forms.gle/vumh3j2otdS6SxF59>

All the selected candidates will be informed through email 02 days before the start of workshop.

**Note:**

*1. The best three posters will be given Appreciation Award and Certificate of Participation will be provided to all the participating students.*

*2. Working lunch will be provided to all the participants of the workshop.*

***For further details please contact:***

**Dr. Livleen Shukla, Principal Scientist and Convenor of the Workshop**

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