

# DKM COLLEGE FOR WOMEN

(AUTONOMOUS)  
Sainathapuram, Vellore -01

## P.G. & RESEARCH DEPARTMENT OF MICROBIOLOGY



In conjunction with

**"DKMC ENVIRO CLUB"**



**Organizes**

**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

**Sponsored**

INTERNATIONAL WEBINAR - JANUARY 2021

on

**"SUSTAINABLE ALTERNATE FOR REPLACING PLASTICS TO  
AVOID THE EFFECTS OF PLASTIC POLLUTION"**

**January 12<sup>th</sup>, 2021 at 2pm**

### **Dr. Ramasamy RAJESH KUMAR**

Senior Scientific Researcher  
Institute of Nuclear- Agriculture Sciences (INAS)  
Key Laboratory of Nuclear Agricultural Sciences of  
Ministry of Agriculture of PR China  
College of Agriculture and Biotechnology  
Zhejiang University, PR China



**2pm-3pm : Lecture-1- Ecofriendly Sustainable Bioplastics: An alternative to Petrochemical Plastics**



### **Dr. V. BALASUBRAMANIAN**

Assistant Professor II, Amity Institute of Biotechnology,  
Amity University-Chhattisgarh, Raipur, Chhattisgarh

**3pm-4pm : Lecture-2- Insights on Biodegradation of Petrochemical Plastics (HDPE)**

## **INTERNATIONAL WEBINAR**

on

“Sustainable Alternate For Replacing Plastics To Avoid The Effects Of Plastic Pollution”

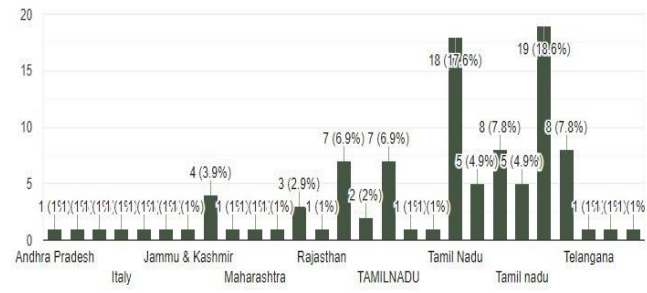
sponsored by

Tamilnadu State Council For Science And Technology

Organized by PG & Research Department of Microbiology, DKM College For Women, in conjunction with  
“DKMC Enviro Club” on January 12<sup>th</sup>, 2021

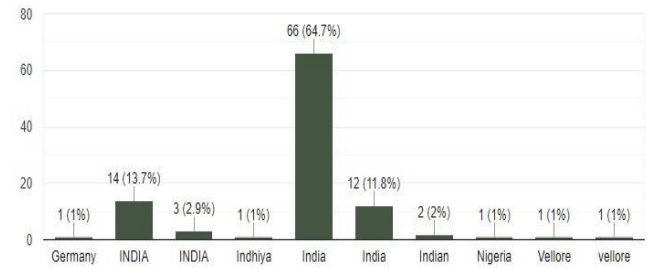
The International Webinar on “Sustainable Alternate For Replacing Plastics To Avoid The Effects Of Plastic Pollution” sponsored by Tamilnadu State Council For Science And Technology was organized by PG & Research Department of Microbiology, DKM College For Women, in conjunction with “DKMC Enviro Club” on January 12<sup>th</sup>, 2021. The delegates from all over the globe have participated in the International conference. Around 216 participants have attended the conference from various foreign countries like Italy, Nigeria, and Germany and from states like Jammu & Kashmir, Maharashtra, Rajasthan, Telangana and the proof for this has been given below as screen short of the google registration form of this International Webinar.

102 responses



### Country

102 responses



## CONFERENCE OBJECTIVES

The objectives of the regional conference were:

- To provide a platform for discussion about the most alarming environmental issue – The sustainable alternate for plastic which will be of a great use for the betterment of the global environment.
- To foster and review global challenges to avoid the effects of plastic pollution

## PROCEEDINGS

### WELCOMING AND OPENING CEREMONY

The International conference started with **Tamizh Thai Vazhthu** and **Welcome address** by Dr.A.Vidhya, Head, PG and Research Department of Microbiology, DKM College for Women followed by **Presidential address** by our respected Principal Madam Dr.P.N.Sudha. The **Introduction of Invited speakers** to the delegates was done.

### Session 1 – Ecofriendly Sustainable Bioplastics: An alternative to Petrochemical Plastics

The introductory speaker was **Dr. Ramasamy Rajesh kumar**, Senior Scientific Researcher, Institute of Nuclear- Agriculture Sciences (INAS), Key Laboratory of Nuclear Agricultural Sciences of Ministry of Agriculture of PR China, College of Agriculture and Biotechnology, Zhejiang University, PR China. He presented the magnitude of the effects of plastic pollution and also gave a clear insight about the ecofriendly sustainable bioplastics which is an alternative to petrochemical plastics.

### Session 2 – Insights on Biodegradation of Petrochemical Plastics (HDPE)

This session was taken over by the second invited speaker **Dr. V. Balasubramanian**, Assistant Professor II, Amity Institute of Biotechnology,

Amity University-Chhattisgarh, Raipur, Chhattisgarh who elucidated about the biodegradation of Petrochemical Plastics by various microorganisms and also explicated the mechanism adopted by microbes to bioremediate the plastics. He also discussed how to rationalize the effect of Plastic pollution by finding a suitable alternate.

#### **CLOSING CEREMONY OF THE INTERNATIONAL WEBINAR**

The International conference concluded with **vote of thanks** by Dr.J.Hemapriya, Assistant Professor, PG and Research Department of Microbiology, DKM College for Women followed by **National Anthem**.

#### **OUTCOMES AND RESULTS**

This conference would have quenched the scientific thirst of many participants and made them to get a wide knowledge about the various alternatives for replacing plastics and to avoid the effects of plastic pollution which is the most alarming issue all over the globe right now.

This webinar forum would have definitely reinforced the delegates from various parts of the world to think on the most significant problem which is a big threat to our mother earth.

#### **ACKNOWLEDGEMENTS**

**We register our sincere thanks to “TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY” for their partial financial support to conduct this International Webinar.**

## PHOTOS OF THE WEBINAR







