



Fakir Mohan Autonomous College

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REPORT OF NATIONAL WEBINAR ON
"RECENT TRENDS IN PLANT & MICROBIAL SCIENCE FOR HUMAN WELFARE"

A national Webinar on "Recent trends in Plant and Microbial science for human welfare" was organized by the **PG Department of BOTANY**, Fakir Mohan Autonomous College, Balasore on 21 .08 2021 from 10.30 am to 1.15 pm.

The following Resource persons delivered their talk on the topic mentioned against their names.

Resource Person

01. Dr. Arup Kumar Mukherjee
Principal Scientist
Division of crop protection (pathology)
ICAR- National Rice Research Institute,
Cuttack, Odisha, India

TOPIC

"Application of microbial diversity for
Sustainable Agriculture: Use of *Trichoderma*
Diversity"

Resource Person

02. Prof Chandi Charan Rath
Professor of Life science,
Rama Devi Women's University,
Bhubaneswar ,Odisha

TOPIC

Endophyte: "Novel microbes for human welfare"

In this webinar, out of 195 registered participants, 162 participated from different institutions and colleges of Odisha and outside. They got informative research knowledge and deep insight on microbes & endophytes from the eminent resource persons. The webinar was inaugurated by the Principal-cum-Patron Dr. Sangita Sahu, who enlightened the participants by her welcome address. Mr. Rajesh Rout, HOD Botany who was the convenor of the webinar, humbly welcomed Principal Madam, Resource persons, and participants. He also coordinated the entire webinar. Dr. Umabati Sahu, co-convenor of the webinar, introduced the Guest speakers of both the sessions to the participants and thanked them for spending their precious time for the webinar. The First Interactive session was moderated by Syed Arif Raza, co-convenor of the webinar, and the second Interactive session was moderated by Smt. Shanti Prava Behera the co-convenor of the webinar. The participation of students in the Interactive session was very much welcomed by both the speakers .All the participants were awarded e-certificate after submitting the feedback form through feedback link. At the end of the webinar Dr. Ipsita Das, co-convenor extended a formal Vote of thanks.

The closing of the webinar was declared by the convenor.

Rajesh Rout
Convenor

SSS
30-8-2021
Principal



NATIONAL WEBINAR

on

RECENT TRENDS IN PLANT & MICROBIAL SCIENCE FOR HUMAN WELFARE

Organised by :

PG Department of Botany, Fakir Mohan Autonomous College, Balasore, Odisha, India- 756001

Date : 21st August 2021 | Time : 10.30 AM - 1.15 PM



Resource Person I

Dr Arup Kumar Mukherjee

Principal Scientist, Division of crop protection
ICAR- National Rice Research Institute,
Cuttack, Odisha, India



Resource Person II

Prof Chandi Charan Rath

Professor, PG Department of Life sciences
Rama Devi women's University
Bhubaneswar, Odisha

About the Department :

The department of Botany, F.M. College was established in the session 1948-49, Postgraduate teaching was introduced during the academic session 2018-19 with a student strength of 32 in each year. Each year department has produced many brilliant students who are pursuing their higher studies in various reputed institutions of India.

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About the Webinar

The main purpose of this webinar is to gather research knowledge on various aspects of microbial diversity, plant-microbe interactions and their utilization for the welfare of human being. Microbial diversity, the unseen life on earth thrives throughout the biosphere. Microbes are inevitable for agriculture, recycling of nutrients, maintenance of healthy environment, plant growth, human health etc. Endophytes have many significant roles like plant growth enhancement, biotic & abiotic stress tolerance, production of secondary metabolites and many more.



Dr Sangita Sahu
Principal cum Patron



Sri Rajesh Rout
HOD, Convener

CO-CONVENER



Syed Arif Raza
Asst. Prof.



Dr. Umabati Sahu
Asst. Prof.



Mrs. Shanti Prava Behera
Asst. Prof.



Sri Manas Kumar Mishra
Asst. Prof., Dept. of Comp. Science



Dr. Ipsita Das
Guest Faculty



Sanjogita Das
Technical Co-ordinator

PROGRAMME

10.30AM: Inaugural Address:

Sri Rajesh Rout, HOD of Botany

10.35 AM :Welcome Address

Dr Sangita Sahu, Principal, F.M. Autonomous College
Balasore, Odisha, India

10.40 AM: Guest Introduction

Dr. Umabati Sahu, Asst. Prof. of Botany

10.50 AM: Resource person's Talk 1:

"Application of Microbial Diversity for Sustainable Agriculture:
Use of Trichoderma Diversity"

Dr. Arup Kumar Mukherjee, Principal Scientist
Division of Crop Protection (Pathology)
ICAR- National Rice Research Institute, Cuttack, Odisha, India

11.50 AM : Interactive Session

Moderator: **Syed Arif Raza**, Asst. Prof. of Botany

12.00 Noon: Resource person's Talk 2:

Endophytes: Novel Microbes for Human Welfare.

Prof. Chandi Charan Rath, Professor,
P.G. Department of Life Sciences, Rama Devi Women's University
Bhubaneswar, Odisha, India

1.00pm Interactive Session

Moderator: **Mrs. Shanti Prava Behera**, Asst. Prof. of Botany

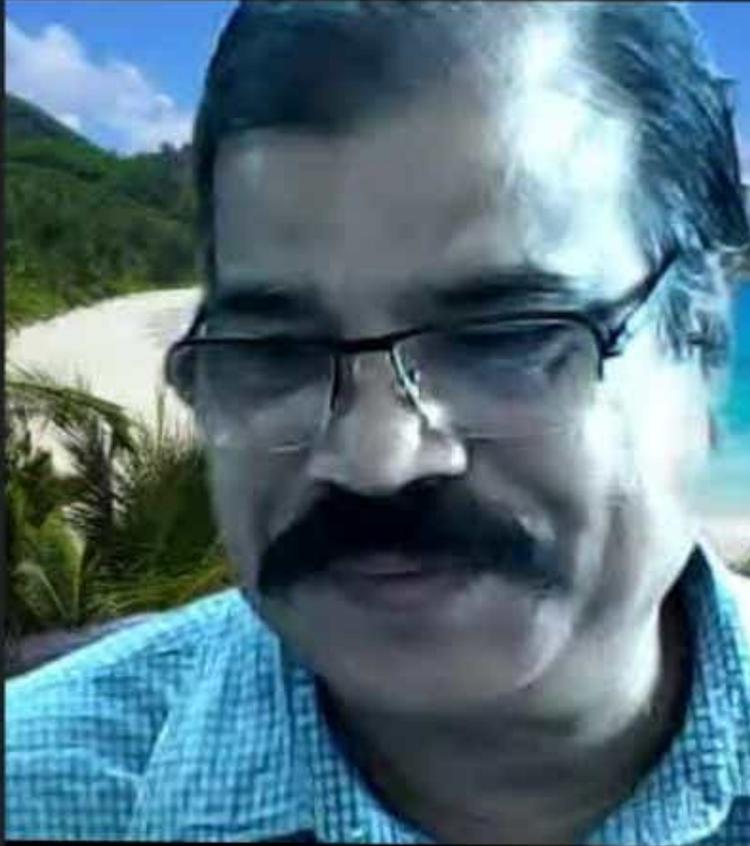
1.10pm. Vote of Thanks.

Dr. Ipsita Das, Guest Faculty of Botany

Link for Registration form : <https://forms.gle/msaCHXrmdDpuvUgh7>

Link for Whatsapp Group : <https://chat.whatsapp.com/IQWeGAKoC6DIHY4mgDPekD>

Link for Webinar Platform will be provided one day before.



Dr. Arup K. Mukherjee



You



63 others



PHYTOSTIMULATION

- Endophytes play an important role :
 - In the uptake of nutrients
 - produce a wide range of phytohormones.
 - *Burkholderia vietnamiensis*, a diazotrophic endophytic bacterium isolated from wild cottonwood (*Populus trichocarpa*), produced indole acetic acid (IAA)..
 - A fungus *Cladosporium sphaerospermum* isolated from the roots of *Glycine max* (L)Merr. Produced higher amounts of GA3, GA4, and GA7,
 - Inhibit pathogen attack

Chandi Charan is presenting




Chandi Charan




In a war of EGO... The loser always wins.

GOOD MORNING...

Rajesh



You




Dr. Ipsita 82 others



MICROBES REGULATE THE ECOSYSTEM.....

- Ecosystem/Biome
 - Abiotic factors
 - Climatic factors
 - Edaphic factors
 - Biotic factors
 - Plants
 - Animals
 - Microorganisms

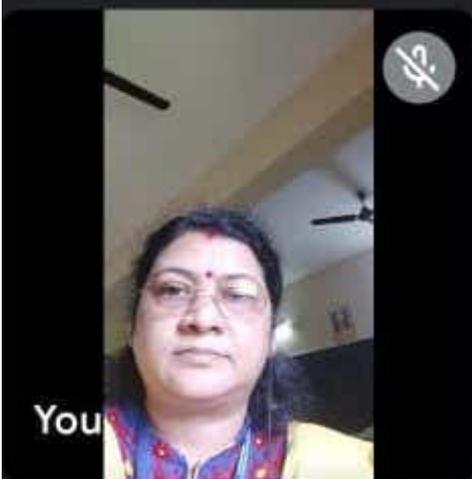
Chandi Charan is presenting



Chandi Charan



Rajesh



You



S

Sudeshna 81 others





cvs-iqbk-hhr



sangita sahu



You



S

61 others






Dr. Arup K.



Rajesh



EMAMEE



Shantiprava



UMA BATI



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You

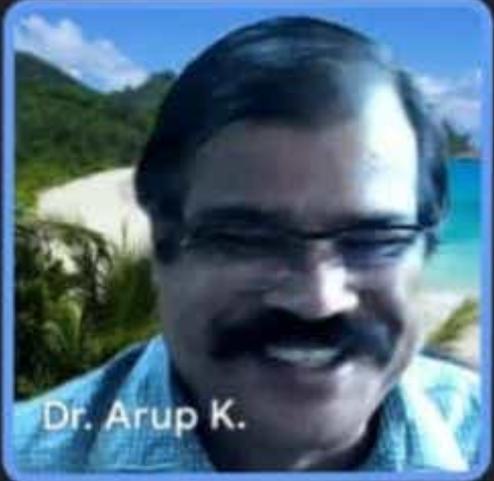


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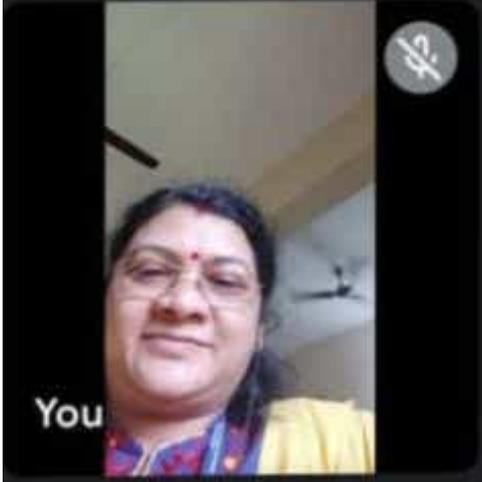




Chandni Charan



Dr. Arup K.



You



Shantipra / 77 others





MICROBES REGULATE THE ECOSYSTEM.....

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 - > Climatic factors
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- Biotic factors
 - > Plants
 - > Animals
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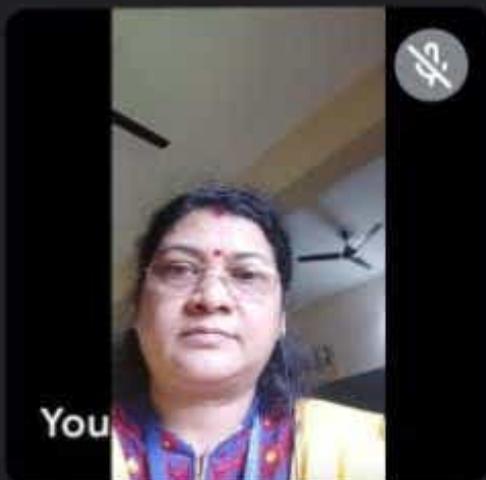
Chandi Charan is presenting



Chandi Charan



Rajesh



You



Sudeshna 81 others





 (81)



Shantiprava Behera (You)

Chandi Charan Rath



Dr. Arup K. Mukherjee



Chandi Charan Rath



Others in the meeting (77)

