

REPORT

Webinar On Emerging Trends in Technology


Topic: Epigenetic Regulation of transfer of memory in Plants

Department of Botany, University of Calicut organized a Webinar on Emerging Trends in Technology with an objective to create an awareness among PG students, MPhil scholars, Research Scholars and Faculties of Life science background on the modern trends in scientific research. The program was conducted on 28.05.2021 Friday from 10.00am to 12.00pm. A total of 128 participants registered for the event including BSc & MSc students, M. Phil & Research Scholars, Assistant Professors of Botany and allied disciplines. Participants were from Departments of University of Calicut and several other academic institutions all over Kerala. Dr. Jasmine M. Shah, Assistant Professor, Department of Plant Science, Central University of Kerala was the Resource person for the program. She talked on Epigenetic Regulation of Transfer of memory in plants based on the research work of her team. She also explained the basics of epigenetics and its regulation in both plants and animals, so that the participants were able to get an insight on the mechanisms of epigenetic regulation as well as its implication in life science research. The program extended beyond 12 noon as there was a lot of interaction between the participants and the resource person. M. Phil and Research scholars cleared their doubts on design of experiments as well as the problems faced during such experiments. Resource person also explained the role of *Arabidopsis* mutants in such kind of Research and as well as scoring the somatic mutations on stress treatment. Participants were excited to have a wonderful lecture which was reflected in the feed back collected after the program. Feedback was collected in online mode by circulating Google forms. More than 98% of participants opined that the topic was relevant and the resource person was highly skillful as well as communicated effectively and rated the program as excellent. E certificated were issued for all the participants at the end of the program.

10:09 AM

← Epigenetic Regulation and Transfer of Memory in Plants

REC



Dr. Jasmine M Shah
Assistant Professor
Department of Plant Science
School of Biological Sciences
Central University of Kerala
Kasaragod, Kerala

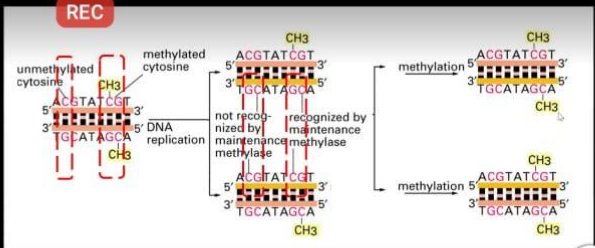
Trying to speak? Turn on your microphone.

jasmine You

10:20 AM

← Cytosine methylation can be epigenetically inherited

REC



unmethylated cytosine

methylated cytosine

not recognized by maintenance methylase

recognized by maintenance methylase

methylation

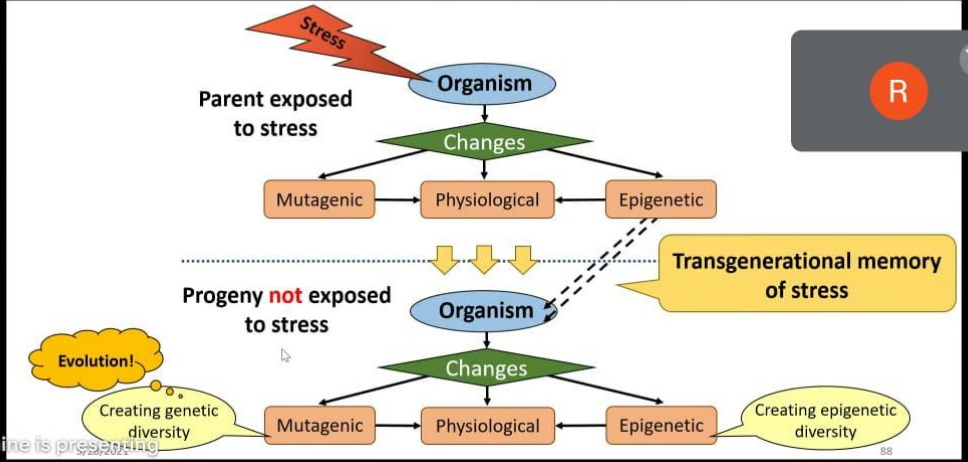
jasmine is presenting

jasmine You

Hana JOS 91 others

REC

Effect of epigenetics on genetics



Stress

Parent exposed to stress

Organism

Changes

Mutagenic Physiological Epigenetic

Progeny not exposed to stress

Organism

Changes

Mutagenic Physiological Epigenetic

Transgenerational memory of stress

Evolution!

Creating genetic diversity

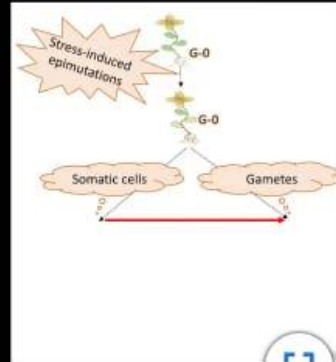
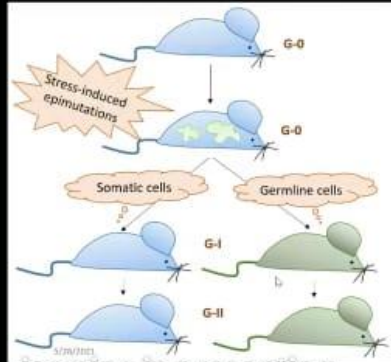
Creating epigenetic diversity

jasmine is presenting



REC

Epigenetic inheritance - plants vs animals



Jasmine is presenting



JOSE T



Devanand



You



jasmine 91 others



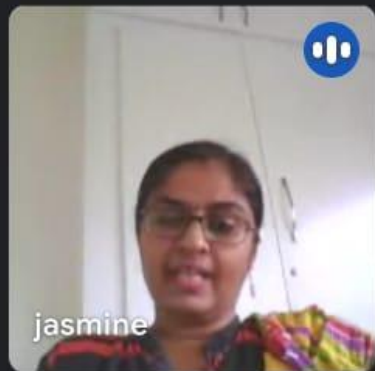
11:40 AM

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feh-tnst-pwu

REC

The screenshot shows a presentation slide titled "You're presenting to everyone" with a "Stop presenting" button. To the right is a list of participants: Arshya nimesh, ashra.f, REGIM L., JOSE T Pinar, Noble Liza, ARCHANA D., ASWATHI RAJ..., and AMBUTHA DEB.... A "Meeting details" sidebar is open on the right, displaying meeting information and a list of chat messages from Arshya Deb, Arjun Shankar, and others. A "jasmine is presenting" overlay is visible at the bottom of the slide.



Bottom navigation bar with five icons: a red phone icon, a white camera icon, a white mute icon, a white hand icon, and a white menu icon.

The Department of Botany was established under the University of Calicut in 1968. It is one of the leading University Botany Departments of India in the field of teaching and research. We are conducting a webinar on Emerging Trends in Technology with special reference to plant epigenetics.

For registration, please use the QR code or click on the link

<https://forms.gle/geiBf5XGUcmmpetw7>



Resource person

Dr. Jasmine M. Shah
Assistant Professor
Department of Plant Science
Central University of Kerala
Kasaragod



DEPARTMENT OF BOTANY
UNIVERSITY OF CALICUT

Webinar on
Emerging Trends in Technology

Topic: Epigenetic regulation and
transfer of memory in plants

May 28th 2021
10am-12pm

Last date for registration: 27.05.2021

E- certificates will be provided for the participants

DEPARTMENT OF BOTANY UNIVERSITY OF CALICUT



Webinar on Emerging Trends in Technology
Epigenetic Regulation and Transfer of Memory in Plants

Certificate of Participation

This is to certify that **Dr Jasmine M. Shah**, Assistant Professor, Department of Plant Science, Central University of Kerala, has given an invited lecture in the webinar on Emerging Trends in Technology on 28th May 2021, organized by the Department of Botany, University of Calicut.

Prof. (Dr.) Jos. T. Puthur
Professor, Department of Botany,
University of Calicut



Prof. (Dr.) V. V. Radhakrishnan
Head, Department of Botany
& Dean, Faculty of Science,
University of Calicut

28.05.2021
Calicut