

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Date	26.3.2022
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	International Webinar
Title of the Activity	“ Recent Advances in Proteomics and Agricultural Biotechnology”
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students and Faculty participated	300
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Ms G.Swapna, Lecturer In Charge Mrs V.N. Padmavathi , Lecturer in Botany Dr Ch. Srinivasa Reddy , Lecturer in Botany Mrs I. Prasanthi , Guest Lecturer

Department of Botany, SRR & CVR Govt Degree College Organized a one day International Webinar entitled “Recent Advances in Proteomics and Agricultural Biotechnology” on 26.3. 2022 from 10.00 am to 2.00 pm .



S.R.R & C.V.R GOVT. DEGREE COLLEGE (A)
MACHAVARAM, VIJAYAWADA
KRISHNA DISTRICT, ANDHRA PRADESH
DEPARTMENT OF BOTANY



INTERNATIONAL WEBINAR ON
RECENT ADVANCES IN PROTEOMICS & AGRICULTURAL BIOTECHNOLOGY



Chief Patron
Dr. Pola Bhaskar,
IAS, Commissioner,
Commissionerate of Collegiate
Education



Guest of Honour
Dr. Ch. Tulasi Mastanamma
AGO, CCE
A.P-Vijayawada



Chairperson
Dr. K. Bhagya Lakshmi
Principial



Dr. Nagaraja Suryadevara
School of Biosciences
Faculty of Medicine,
Bioscience and Nursing
MAHSA University,
Malaysia.



Dr. D. V. N. Sudheer Pamidimarri
Associate Professor, Scientist,
Dept. of Industrial Biotechnology,
Gujarat Biotechnology University,
Gujarat, India



Dr. Sushma Chauhan
Assistant Professor and
Research Coordinator
Amity Institute of
Biotechnology, Amity
University Chhattisgarh, India

Topic:
Nano Technology in Agriculture

Convener
Ms. G. Swapna
Incharge, Dept. of Botany

Date & Time
26th March 2022
10 AM- 2 PM

Registration Free

Topic :
Lab to Industry:
Advanced Biotechnology
tools to assist Industry

Co-Convener
Mrs. V. N. Padmavathi
Lecturer in Botany

Topic :
Circular proteins:
Classic proteins with modern
applications

Organizing Secretary
Dr. Ch. Srinivasa Reddy
Lecturer in Botany

Registration link:
<https://forms.gle/qnqZSi5qNqDqCqCV7>
Zoom link:
<https://us02web.zoom.us/j/kcKp4Llxp>

Telegram link:
<https://t.me/+tVLEoYQ1D1A0MDc1>

Context of this Webinar :

Coming to the context and theme of this webinar, the theme is focussed on Proteomics and Agricultural Biotechnology. Globally currently with less availability of arable land, and water, Agricultural Produce is unable to meet the food demands of the growing population .

A viable solution to release this pressure and to close the wide gap between supply and demand , is to speed up the plant breeding process by employing biotechnology in breeding programs. Biotechnology provides the capabilities to breeders to achieve certain goals that would otherwise be impossible through conventional plant breeding approaches.

Currently Significant progress has been made in recent years in proteomics in comprehending different areas of agricultural sciences. Proteomics increases the functional diversity and complexity and plays an essential role in regulating numerous cellular and physiological processes. With the advanced proteomics technologies and tools, it has proven to be an indispensable tool with plant-pathogen interaction, metabolic regulation and stress responses. Nevertheless, proteomics has many challenges ahead.

Proteomic methods are important for understanding stress tolerance mechanisms in plants, because genomic sequence information alone does not reveal how a plant interacts with the environment. Therefore, proteomics, together with genome sequence data of major crops, especially rice, maize, and wheat, has emerged as a new paradigm to provide mechanistic understanding of various plant molecular processes.

With all the strong advanced proteomics techniques and bioinformatics tools, there has been significant improvement in plant proteomics studies in the past few years. This paradigm shift has increased the ability to recognise plant-pathogen interaction, disease resistance and stress responses. In response to environmental changes, proteomics plays an essential role in supporting numerous critical cellular and regulatory mechanisms in crops.

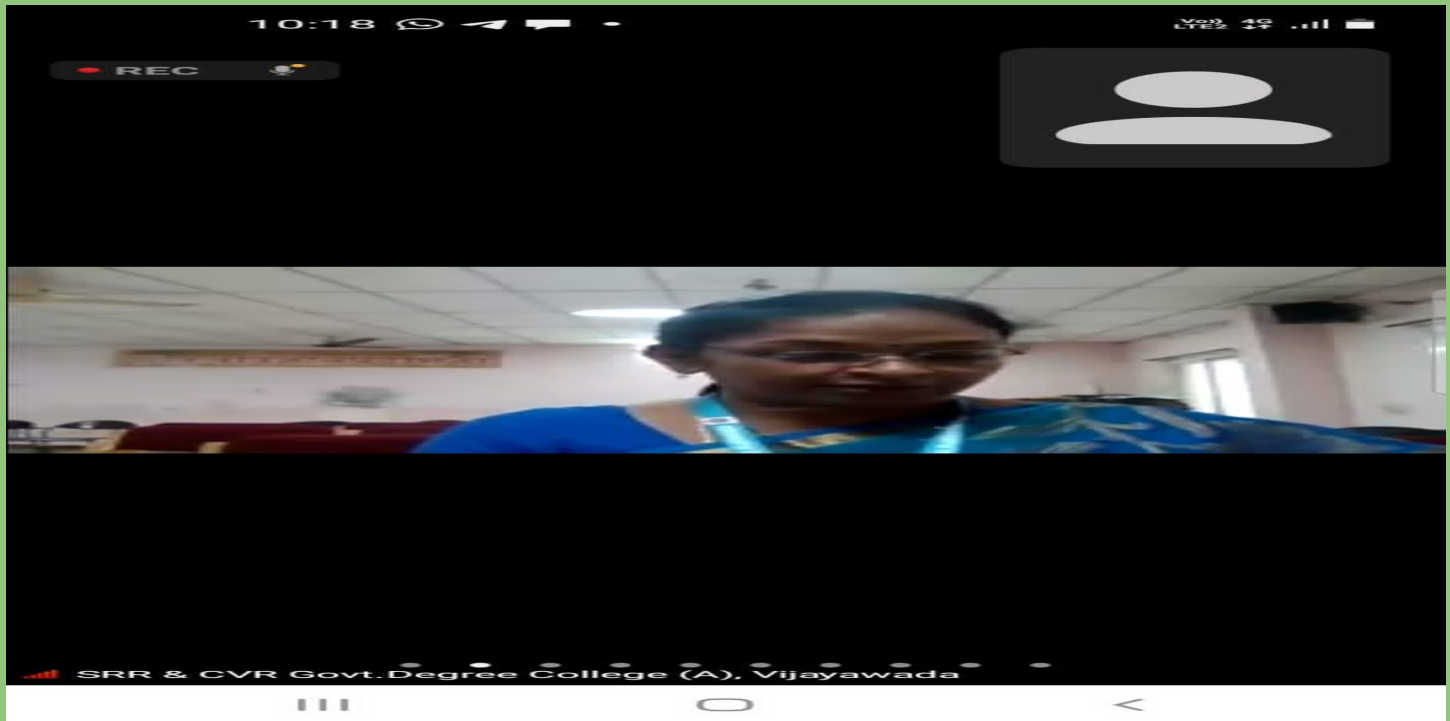
The integration of proteomics into the field of crop science in this post-genomic period will definitely enrich the efforts of genome annotation and promote the creation of crop models for the elucidation of gene functions affecting phenotypes for field crop performance.

Recent advances in plant proteomics , bioinformatics , availability of high-quality proteomics data and deep learning algorithms holds great promise in providing significant insights into the regulatory mechanisms such as response to abiotic stresses. Rapid progress in crop proteomics through new biotechnological methods , omics technologies also hopefully will help in increasing crop quality achieve food production targets by 2050 and ensure sustainable Agriculture

Webinar Report :

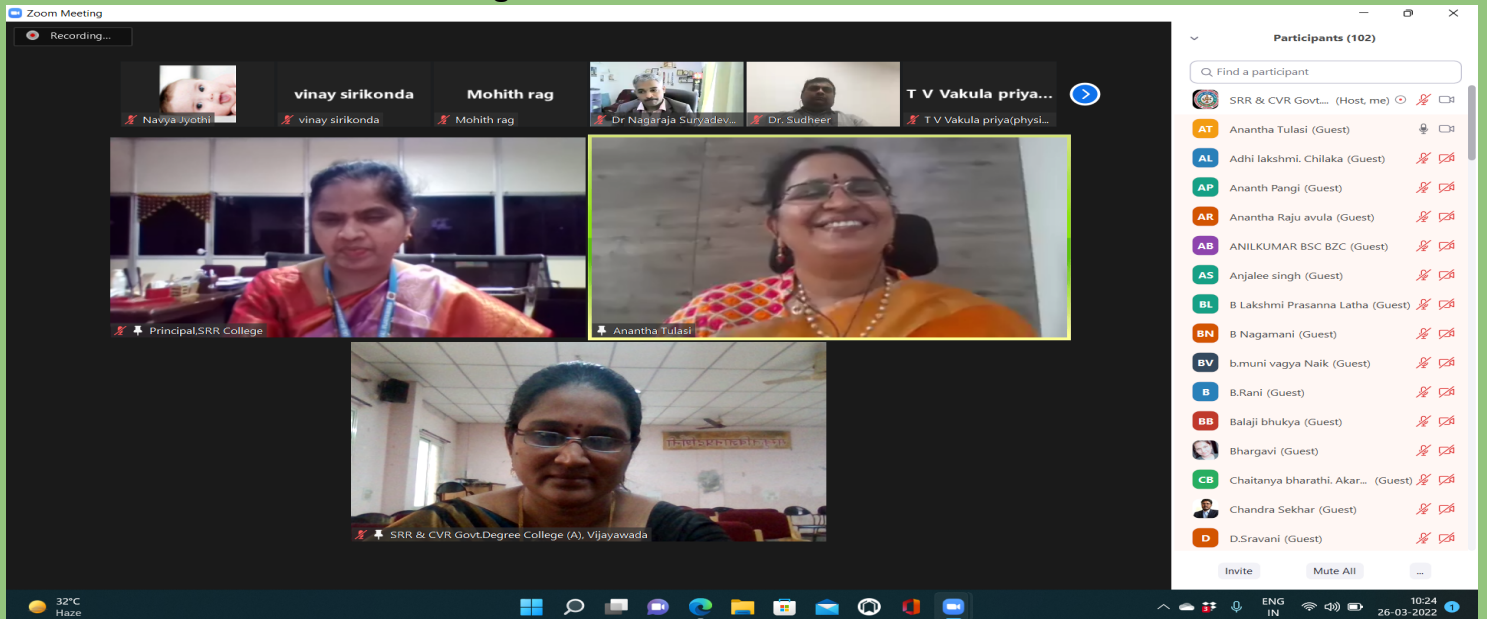
Webinar Flyer was released at 9. 30 am on 26.3.2022 by Honorable Principal Madam Dr K.Bhagya Lakshmi Garu and Department of Botany and Students .



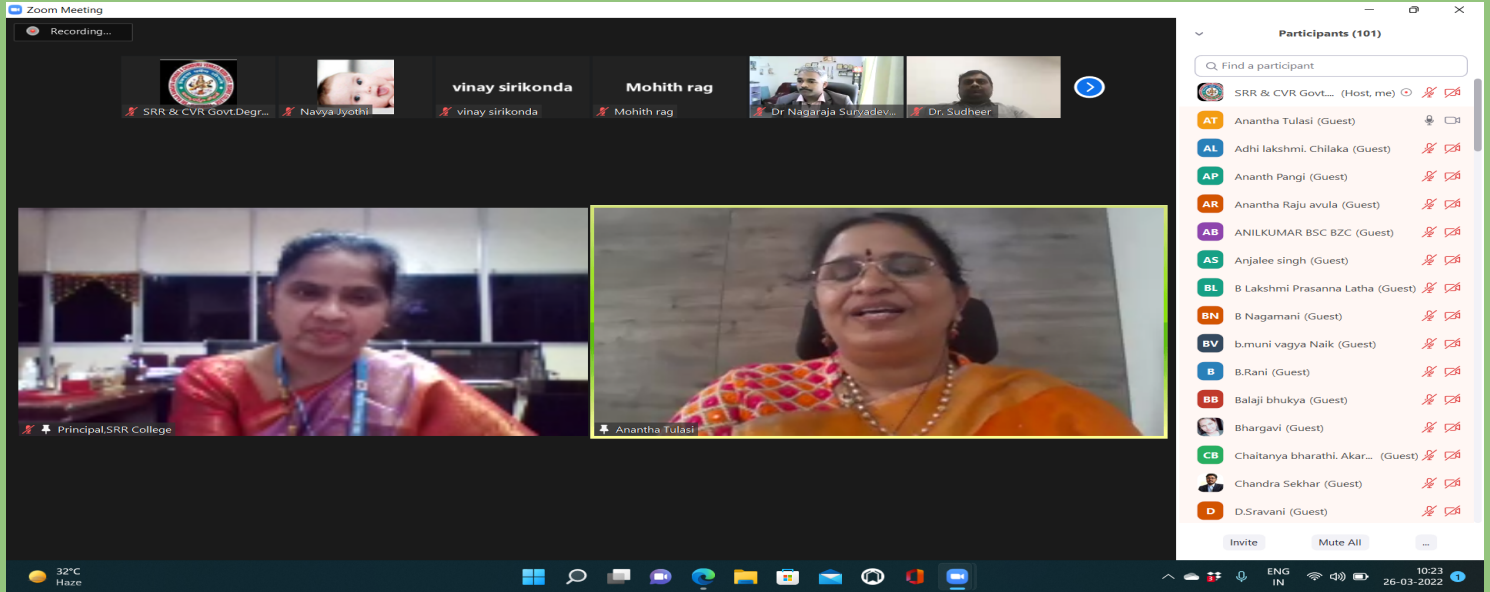


At 10.00 am this prestigious International Webinar was initiated with a warm Welcoming session by Mrs V.N. Padmavathi , Lecturer in Botany . Nearly 300 Participants throughout the world joined this webinar.

Later Keynote Address on this International Webinar was given by Ms G.Swapna , Incharge Department of Botany and welcomed Honorable Chairman Dr K.BhagyaLakshmi and Guest of Honor Dr K.Tulasi Mastanamma garu .

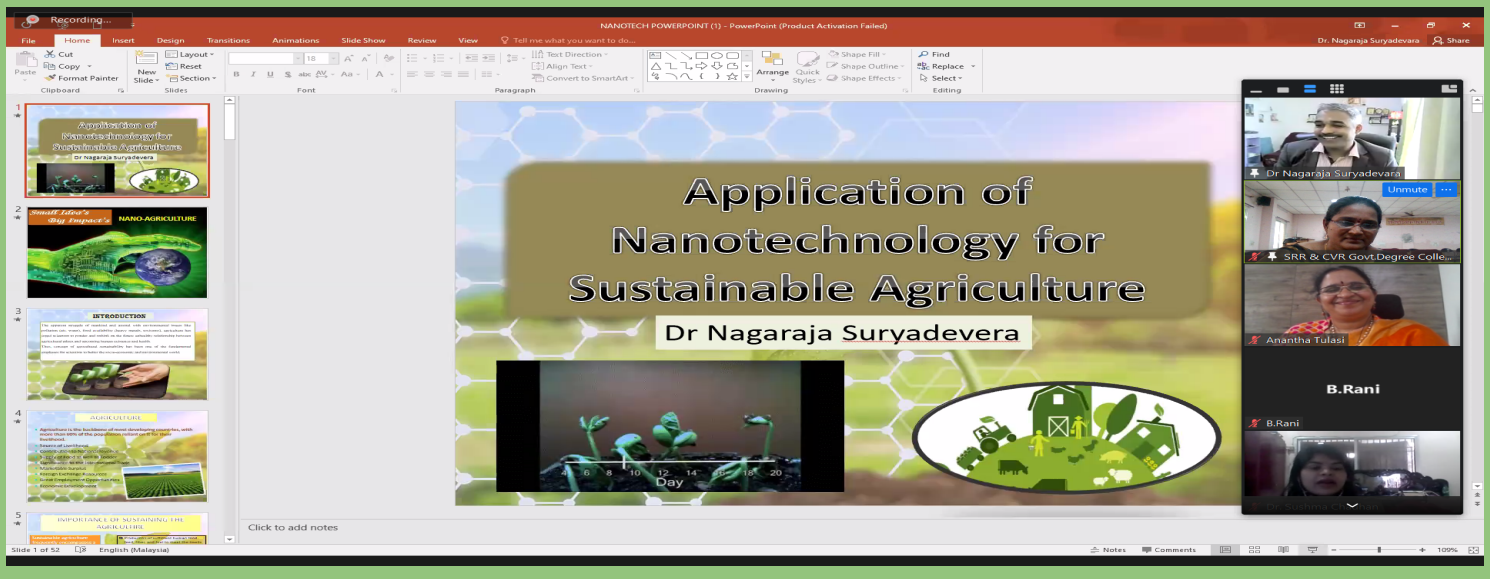


After the keynote address , Honorary Principal and Chairperson of this webinar Dr K. Bhagya Lakshmi garu Addressed the participants about the context of this webinar and gave her valuable remarks about the context and significance of this webinar.



Later the Guest of Honor, Honorary AGO , CCE Govt of Andhra Pradesh Dr Tulasi Mastanamma garu conveyed her valuable message and congratulated the Department of Botany for Organizing this Webinar on Advanced Topics like Proteomics .

This webinar have eminent speakers like Dr Nagaraja Suryadevara sir from MAHSA university , Malaysia, Dr .D.V.N Sudheer sir from Gujarat Biotech University , Dr Sushma Chauhan madam from Amity university of Biotechnology , Chhattisgarh as Our Webinar Resource persons .

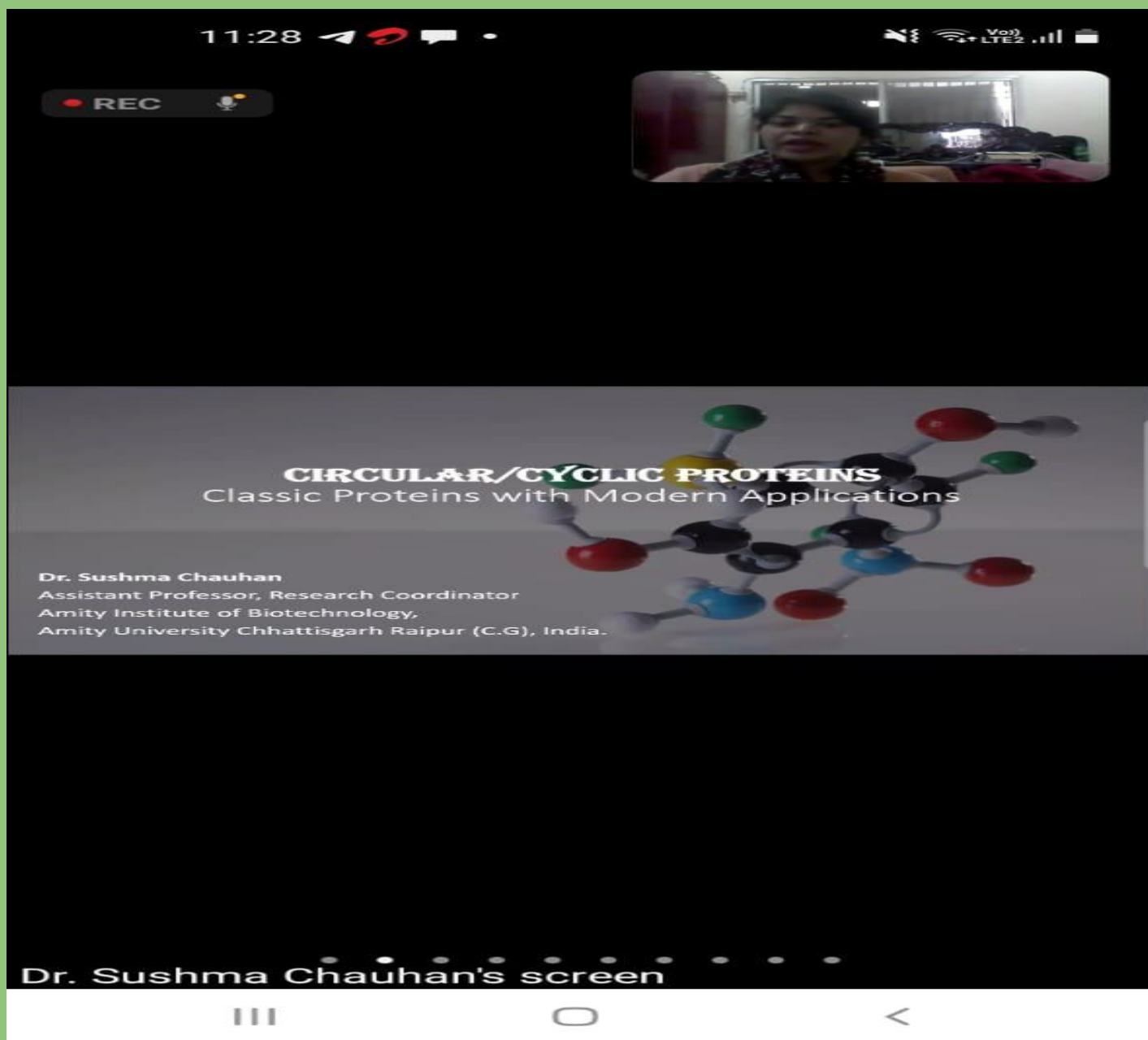


First Technical Session started by 10.45 Dr NagaRaja Suryadevara from MAHSA University , Malaysia delivered his presentation on nanotechnology and its Applications. Sir has explained about the Research going on in MAHSA University of Malaysia on nanotechnology and explained about several applications of nanotechnology for sustainable Agriculture in recent era .

The screenshot shows a Zoom meeting interface. At the top, a title bar reads "APPLICATION –WASTE WATER TREATMENT" and "NANOFILTRATION". A "Zoom" logo is visible. On the left, there are icons for "Unmute" (muted), "Start Video" (video off), and "REC" (recording on). On the right, there is a "Leave" button and a small video thumbnail of the presenter. The main content is a presentation slide with a green background and a molecular structure. The slide text reads: "Using enormous eco-friendly graphene oxides, dendrimers, fullerene-based, nanosorbents strengthens the membrane for separation, which increases the selectivity and remediates pollutants like antibiotics or heavy metals in water, thus creating healthy space for plantation." Below the text is a diagram titled "Dendrimers" showing a 3D model of a dendrimer and a 2D schematic. The schematic labels the "Core region", "Branching region", and "Hydrophilic Terminal". At the bottom of the Zoom interface, there are icons for "Share", "Participants" (129), and "More" (1 notification).

After the Interesting and Inspirational session , immediately there was a Question and answer session in which several Faculty and students interacted with Dr Suryadevara Nagaraja in which . Several Faculty and students interacted on his research work happening and applications.

Later Dr Sushma Chauhan Introduction was given briefly by Mrs V.N.Padmavathi, Lecturer in Botany . Second Technical Session commenced by 11.55 by Dr Sushma Chauhan from Amity University of Biotechnology , Chattisgarh. Madam spoke about “Circular Proteins : Classic Proteins with modern applications”.She has explained about the Research happening on Classic Proteins and their applications .



After a very informative second session ,there was a Question and answer session in which several Faculty and students interacted with Dr Sushma Garu .

After the Second Session , Dr CH. Srinivasa Reddy , Lecturer in Botany Introduced the third Resource person Dr D.V.N Sudheere Garu .

The screenshot shows a Zoom meeting in progress. The top bar indicates 'Recording...'. The participant list at the top includes Nani Darelli, Sai babu, K UMA, Dr Nagaraja Sur..., and Principal,SRR C... The chat window on the right shows a message from 'SM' asking 'tq soomuch sir for your informative lecture', followed by a reply from 'M' saying 'thank you sir'. The system tray at the bottom shows the date as 26-03-2022 and time as 11:59.

At 12.45 Third technical Session commenced by 12.45 by Dr D.V.N Sudheer Garu from Dept of Industrial Biotechnology , Gujarat Biotechnology University , Gujarath . Sir delivered his Presentation on “Lab to Industry: Advanced Biotechnology tools to assist Industry ”. He has explained about the interrelationships among Research Lab and Industry . After a very interesting Third session , there was a Question and answer session in which several Faculty and students interacted with Dr D.V.N Sudheer Garu .

The screenshot shows a Zoom meeting with a presentation slide displayed. The slide is titled 'LAB TO INDUSTRY' and 'Advanced Biotechnology tools to assist Industry'. It features a blue background with a molecular structure and a hand holding a test tube. The presenter is identified as Dr. Sudheer Pamidimarri, Associate Professor & Ramalingaswami fellow, Scientist D [DBT-India] at Gujarat Biotechnology University, Gandhinagar, Gujarat, India. The participant list at the top includes Dr. Sushma Cha..., Nani Darelli, Sai babu, and K UMA. The chat window on the right shows a message from 'SM' asking 'tq soomuch sir for your informative lecture', followed by a reply from 'M' saying 'thank you sir'. The system tray at the bottom shows the date as 26-03-2022 and time as 12:01.

After all the technical Sessions Vote of thanks was Proposed by Mrs I. Prasanthi , Lecturer in Botany . Webinar ended at 2.00 pm.

The webinar was very much successful with the active participation of faculty and students from various parts of the world and the Informative and Inspirational Talks given by the Resource persons and by the support of Honorable Principal Madam and Department of Botany Faculty Members.

Press Clipping on International Webinar

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పరిజ్ఞానం పొందేందుకు వెబినార్లు దోహదం

మధురానగర్(విజయవాడ సెంట్రల్): మాచవరం ఎస్ఆర్ఆర్ అండ్ సీవీఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో శనివారం వృక్షశాస్త్ర విభాగం ఆధ్వర్యంగా వ్యవసాయ రంగంలో జీవ సాంకేతిక శాస్త్రం, ప్రోటియోమిక్స్ విభాగాల్లో ఇటీవల పురోగతి అనే అంశంపై అంతర్జాతీయస్థాయి వెబినార్ నిర్వహించారు. ప్రిన్సిపల్ డాక్టర్ కె.భాగ్యలక్ష్మి అధ్యక్షతన నిర్వహించిన వెబినార్లో ఉన్నత విద్య కమిషనరేట్ కార్యాలయం అకడమిక్ గైడెన్స్ ఆఫీసర్ డాక్టర్ సీహెచ్ తులసీ మస్తానమ్మ ముఖ్య అతిథిగా పాల్గొన్నారు. ఈ సందర్భంగా ఆమె మాట్లాడుతూ మారుతున్న కాలానుగుణంగా విద్యార్థులు పరిజ్ఞానం పొందడానికి ఇటువంటి వెబినార్లు దోహదం చేస్తాయని చెప్పారు. ఇంత మంచి కార్యక్రమం ఏర్పాటు చేసిన వృక్ష శాస్త్ర విభాగాధిపతి జి.స్వప్న, ప్రిన్సిపల్ డాక్టర్ కె.భాగ్యలక్ష్మిని అభినందించారు. అనంతరం మహాసా యూనివర్సిటీ మలేషియా నుంచి డాక్టర్ సూర్యదేవర నాగరాజు, గుజరాత్ బయోటెక్నాలజీ యూనివర్సిటీ నుంచి డాక్టర్ డీవీఎస్ సుధీర్, పమిజమర్రి, అమిటీ విశ్వ విద్యాలయం ఛత్తీస్ఘడ్ నుంచి డాక్టర్ సుష్మా చౌహాన్ ప్రసంగించారు. వ్యవసాయ రంగంలో నానో టెక్నాలజీ పాత్ర, వలయాకార ప్రోటీన్లు- అనువర్తనాలు, పరిశ్రమల్లో జీవసాంకేతిక శాస్త్ర అనువర్తనాల గురించి వివరించారు. పలు దేశాలు, రాష్ట్రాల నుంచి సుమారు 300 మంది ఆచార్యులు, పరిశోధక, విశ్వవిద్యాల విద్యార్థులు పాల్గొని చర్చించారు. స్వప్న, అధ్యాపకులు వీఎస్ పద్మావతి, సీహెచ్ శ్రీనివాసరెడ్డి, ఐ ప్రశాంతి పర్యవేక్షించారు. అనంతరం ప్రిన్సిపల్ డాక్టర్ కె.భాగ్యలక్ష్మి చేతుల మీదుగా అవగాహన పోస్టర్లు ఆవిష్కరించారు.



పోస్టర్లు ఆవిష్కరిస్తున్న ప్రిన్సిపల్ డాక్టర్ కె.భాగ్యలక్ష్మి, వృక్షశాస్త్ర విభాగాధిపతి స్వప్న తదితరులు

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