

हंसराज कॉलेज

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NAAC ACCREDITED 'A++' GRADE COLLEGE

2023-24

Title of the event: Online One-Week International Faculty Development Programme On
"Revolutionizing Agriculture: Novel Perspectives on Technological Innovations"

Name of the Society: Botanique: The Botanical Society of Botany, Hansraj College in association
with Mahatma Hansraj Malviya Mission Teacher Training Centre, Hansraj College

Platform: Online

Date: 1st – 6th April 2024

Number of Participants = 91

Event Convenor/s - Prof. Vijay Rani Rajpal, Department of Botany, Hansraj College
Dr. Romila Rawat Bisht, Department of Botany, Hansraj College

Event Co-ordinators - Dr. Ridhi Khurana, Department of Botany, Hansraj College

Organizing Member- Dr. Savita, Department of Botany, Hansraj College

Dr. Sahil Mehta, Department of Botany, Hansraj College

Dr. Mandeep Dixit, Department of Botany, Hansraj College

The Online One-Week International Faculty Development Programme on "Revolutionizing Agriculture: Novel Perspectives on Technological Innovations" was organized by Department of Botany, Hansraj College, in association with Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, from 1st April 2024 to 6th April 2024. It aimed to explore the cutting-edge technological advancements in agriculture and their potential to transform agricultural practices globally. The program provided a platform for educators and researchers to exchange ideas, discuss challenges, and explore innovative solutions in the field of agriculture. The key objectives of this faculty development program were to provide insights into the latest technological innovations in agriculture; foster collaboration and knowledge exchange among international faculty members; explore sustainable practices and solutions for agricultural development and empower educators with tools and techniques for integrating technology into agricultural education. The program comprised a series of technical sessions

covering a wide range of topics related to agriculture and nanotechnology, including 24 technical sessions, comprising 18 invited lectures by national and international resource persons.

Encl.: Photos from the event, Attendance Sheet

DEPARTMENT OF BOTANY
HANSRAJ COLLEGE | UNIVERSITY OF DELHI
(NAAC ACCREDITED A++ GRADE)

ORGANISES AN ONLINE ONE-WEEK
INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME
ON

REVOLUTIONIZING AGRICULTURE: NOVEL PERSPECTIVES ON TECHNOLOGICAL INNOVATIONS

DATE: 1ST- 6TH APRIL 2024

TIME: 2:00 PM TO 5:00 PM

LIVE SESSIONS

PLATFORM: ZOOM

REGISTRATION LINK:

<https://forms.gle/5U5VejQxbfXaVCKEA>



ORGANISING TEAM

PATRON

Padamshri Dr. Punam Suri
Chairman, Governing Body,
Hansraj College, University of
Delhi, Delhi

MH-MMTTC TEAM

Prof. (Dr.) Rama
Principal, Hansraj College,
University of Delhi, Delhi
Chairperson, MH-MMTTC

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Coordinator, MH-MMTTC
Hansraj College
University of Delhi, Delhi

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Deputy Coordinator, MH-MMTTC
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Dr. Pooja Jha Maity
International Programmes Incharge
MH-MMTTC, Hansraj College,
University of Delhi, Delhi

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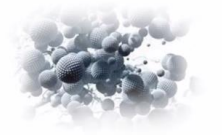
Zoom Webinar

Dr. Romila Prof. Vijay Rani... Dr. Pooja Jha M...

Recording...

Nanoproteomics allows By using

- Real-time multiplexing
- Low sample volume
- Low sample concentration
- Less reagents required
- High sensitivity
- High specificity
- Short run time
- Miniaturized analytical systems
- High surface area to volume ratio
- Sizes and shapes are tunable
- NP surface can be functionalized
- Enzyme immobilization
- Electrical conductance
- Particle aggregation (Color change)



31°C Partly sunny 2:27 PM 4/1/2024

Participants (78)

Panelists (9) Attendees (69)

Search

- AS Aarti Soni
- AK Ajay Kumar
- AN Amit Nagar

Lower All Attendees' Hands

Webinar Chat

University, Amritsar

Romica Verma to Everyone

Dr. Romica Verma
Assistant Professor
Department of Botany
University of Jammu, Jammu

Who can see your messages? Recording On

To: Everyone

Type message here...

Zoom Webinar

You are viewing Prof. Renu Deswal's screen

Dr. Romila Prof. Vijay Rani... Dr. Pooja Jha M...

Recording...

Assessment of effect of foliar application of AuNPs on Brassica juncea yield parameters.

I. Experimental design.

| Treatment | 00 PPM | 12.5 PPM | 25 PPM | 50 PPM |
|-------------|---------|----------|--------|--------|
| Green_AuNPs | CONTROL | | | |
| Chem_AuNPs | | | | |

Treatment was given after every 15 days post 30 DAS onwards until harvest.


All treatments were given along with 0.03% adjuvant (Triton x-100).

Control plants were treated with adjuvant only.

Seeds were sowed during the late October and plants harvested at the Pod stage (in the month of January, between 60-70 days)

Pots were placed randomly in the open environment inside a Net house during the Brassica growing season.

II. Image captures at mature stage (Pod Stage)



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Participants (78)

Panelists (8) Attendees (70)

Search

- AS Aarti Soni
- AK Ajay Kumar
- AM Amita Mahajan

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Webinar Chat

Neeraj Wadhwa to Everyone

Prof Neeraj Wadhwa
jitt noida

Me to Everyone

kindly put your questions in Q&A box

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Zoom Webinar

You are viewing Prof. Svetlana Sushkova's screen

Dr. Romila Prof. Svetlana Sushkova Dr. Sahil Mehta Dr. Pooja Jha M...

Recording...

Sushkova lecture 1 Apr 2024

Ministry of Science and Education of Russian Federation
Southern Federal University
Academy of Biology and Biotechnology behalf D.I. Ivanovskiy

Modern techniques in soil pollutants determination: ecologically green approach

Svetlana Sushkova, Dr. of Soil Sciences, main researcher, head of Laboratories Intellectual Agrotechnologies, Environmental Soil monitoring Vice-Director on International Collaboration Academy of Biology and Biotechnology behalf D.I. Ivanovskiy, Southern Federal University

ansushkova@sfedu.ru

Nanjing, 16-19 October 2023

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Webinar Chat

Gurpreet kaur to Everyone 03:33 PM

Ms. Gurpreet Kaur
Assistant Professor
Rayat Bahra University, Mohali

Vaneet Kumar to Hosts and panelists 03:33 PM

Dr Vaneet Kumar, Assistant Professor,
Department of Botany, S.L. Bawa DAV
College, Guru Nanak Dev University,
Amritsar

Sinky Sharma to Everyone 03:33 PM

Dr. Sinky, Assistant Professor, Gaur
Brahman Degree college, MDU, Rohtak

Gladys to Everyone 03:33 PM

Dr. Gladys Mulvah Assistant professor,
Department of Botany, Gargi College
University of Delhi

Dr. Jahid Ali Malik to Everyone 03:33 PM

Dr. Jahid Ali Malik, Assistant Professor,
SGGSI Govt. College Paonta Sahib, H.P.
University Shimla

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Zoom Webinar

Recording...

Question and Answer

Open (6) Answered (3) Dismissed

sahil 05:45 PM

Sir,
How did you find the gene altered after EMS mutagenesis in Nagina contributing to herbicide resistant?
Were some other genes also mutated in this resistant variety?

Answer live Type answer

EG Elangbam Geetanjali 05:56 PM

which brands or company sold 2013 Pusa Basmati in the market? which brands are best basmati in the market?

Answer live Type answer

DA Dr. Amita Mahajan 06:12 PM

Highly knowledgeable session.

Answer live Type answer

Dr. Amita Mahajan 06:15 PM

Participants (74)

Panelists (6) Attendees (68)

Search

7 7292057513

AK Ajay Kumar

AN Amit Nagar

Lower All Attendees' Hands

Webinar Chat

Dr. Praveen Gupta to Everyone

DP Very informative session

Dr. Ranjna Nagpal Koul to Everyone

DR Very interesting and informative session, Sir!

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Dr. Mandeeep

Dr. Mandeeep

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6:23 PM 4/1/2024

Zoom Webinar

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View Options

Prof. Vijay Rani...

Dr. Savita Dr. Vishnu D. Rajput Prof. Vijay Rani Rajpal Prof. Svetlana Sushkova

Recording...

12:06 PM

Results!

Biochar and metal-tolerant bacteria in alleviating ZnO nanoparticles toxicity in barley

Content of Zn in *Hordeum vulgare* plant tissues for the 2-year of experiment, mg kg⁻¹

| Treatment | above-ground parts (stem and leaves) | | underground parts (root) | |
|----------------------|--------------------------------------|-------------------------|--------------------------|-------------------------|
| | 20 th year | 21 st year | 20 th year | 21 st year |
| Clean soil | 30.5 ± 2.0 ^a | 27.8 ± 1.9 ^a | 28.1 ± 2.0 ^a | 25.3 ± 1.9 ^a |
| ZnO NPs | 1642 ± 389 ^b | 1068 ± 75 ^b | 1427 ± 94 ^b | 973 ± 61 ^b |
| NPs+biochar | 1348 ± 64 ^b | 925 ± 63 ^b | 1035 ± 69 ^b | 753 ± 47 ^b |
| NPs+bacteria | 937 ± 54 ^b | 607 ± 46 ^b | 602 ± 40 ^b | 376 ± 24 ^b |
| NPs+biochar+bacteria | 872 ± 54 ^b | 605 ± 42 ^b | 426 ± 29 ^b | 205 ± 13 ^b |

Influence of soil pollution on root and shoot length of *Hordeum vulgare* for the 2-year of experiment, cm

The addition of biochar (2.5% of total soil) and bacteria (1010 CFU kg⁻¹) separately and in combination showed a favorable impact on H. sativum growth in ZnO NPs polluted soil.

Individual application of biochar and bacteria reduced the Zn plant uptake, i.e., underground parts (roots) by 94% and 20%, and in the above-ground parts of the sprout plants by 76% and 53%, respectively, compared to ZnO NPs polluted soil treatments.

Participants (77)

Panelists (7) Attendees (70)

Search

AS Aarti Soni

AK Ajay Kumar

AN Amit Nagar

A Amita

AP Anand Pushker Ramjas College

AK Anupam Kujur

AM Arti Mishra

AG Asmita Gupta

AK Avinash Kumar

BK Babeeta Kaula

DD Debarati Das

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33°C Haze

14:36 02-04-2024

Zoom Webinar

You are viewing Prof. Gopala Krishnan's screen

View Options

Dr. Romila Prof. Vijay Rani... Dr. Ridhi Khurana

Dr. Romila Prof. Gopala Krishnan Prof. Vijay Rani Rajpal Dr. Ridhi Khurana

Recording...

ICAR-Indian Agricultural Research Institute, New Delhi

Imazethapyr Tolerant Basmati Rice Varieties

Transplanted

Imazethapyr Sprayed

PB 1985 PB 1509 PB 1509 (Unsprayed)

Dry Direct Seeded

Imazethapyr Sprayed

Participants (74)

Panelists (5) Attendees (69)

Search

7 7292057513

AK Ajay Kumar

AG Asmita Gupta

Lower All Attendees' Hands

Webinar Chat

PG Mam, can you enable sharing please

neerajwadhwa to Everyone

N Good presentation

Prof Neeraj Wadhwa JIIT nOIDA

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Unmute Start Video Participants Q&A Chat Share Screen Apps Whiteboards More

Type here to search

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6:15 PM 4/1/2024

Recording... You are viewing Dr. Vishnu D. Rajput's screen

Results! The abundance and community structure of culturable microorganisms for the second-years of experiment

The highest abundance of spore-forming bacteria was found in the variant with combined application of biochar and bacteria

The introduction of ZnO NPs into the soil led to an increase in the number of spore-forming bacteria by 1.5 times in the treatment compared to clean soil after one year of incubation.

Using biochar had no significant effect on the number spore-forming bacteria, while the introduction of spore-forming bacteria has led to an increase by 104% and 85%, respectively, compared to clean soil.

The number of all groups of culturable microorganisms increased in the second year of experiment.

0:34:06 12:07 PM

Dr. Savita
Dr. Vishnu D. Rajput

Prof. Vijay Rani...
Prof. Vijay Rani Rajpal

Recording... You are viewing Dr. Anirudha Chattopadhyay's screen

'virus as vector'

- Expressing novel products viz., pharmaceuticals.
- Expression systems: Baculovirus, E.coli, mammalian cell system
- Biopharmaceuticals, i.e., in planta expression of 'edible vaccine'
- Plant systems: less time and cost; Less chance of contamination; No need of cold chain through raw food/fruits.
- in planta production of pharmaceuticals-stably transformation or transient expression

Press ESC or double-click to exit full screen mode

Dr. Savita
Dr. Anirudha Chattopadhyay

Prof. Vijay Rani...
Prof. Vijay Rani Rajpal
Dr. Sahil Mehta

April 4th 2024; Hansraj College
FDP: "Revolutionizing Agriculture: Novel Perspectives on Technological Innovations"

Unveiling the Potential of Northern Sweden: Explorative Potato Research at Umeå Plant Science Centre, UPSC

Benedicte Riber Albrechtsen
Umeå Plant Science Centre, Umeå University

UPSC
UMEÅ UNIVERSITY
SLU
SITES

Dr. Romila
Dr. Pooja Jha...

m

New age cytogenetic tools: integrating genetics and genomics

Shailendra Goel
Department of Botany^b
University of Delhi



R

Dr. Romila

- SD Dr. Sweta C Birla College Dr. Ranjna
- DR Dr. Ranjna I Assistant P Ranjna Col Debarati Das
- DD Dr. Debarati Asst. Prof. Pwari of Ra

Millets for nutritional security 6th April, 2024 - Microsoft PowerPoint

**Millets (Shree Anna) -
For Health and Entrepreneurship**

Dr. C. Tara Satyavathi
Director
ICAR-Indian Institute of Millets Research, Hyderabad



Nutricharging pulses through modern breeding tools for boosting sustainable human health

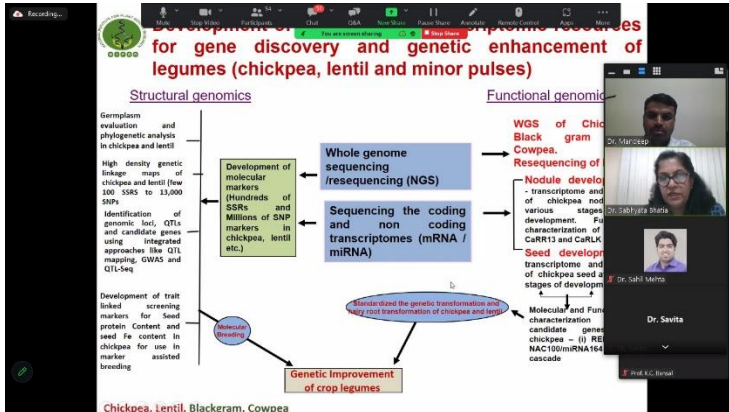
Dr. C. Bharadwaj
Principal Scientist, Division of Genetics, ICAR-Indian Agricultural Research Institute, New Delhi 110012 & Visiting Associate Professor, UWA Institute of Agriculture, University of Western Australia, Australia

From Sandeep Kaar to Everyone
Sandeep Kaar, Assistant Professor, SCS Government College, Suram (Punjab)

Novel Perspectives on Technological Innovations
April 2024 Online webinar

Participants (70)
Panelists (3) Attendees (37)

- DA Dr. Arti Mishra
- AA Aay Kumar
- AD Anita Gupta
- AI Anush Kumar
- BS Bhavna Saxena
- CA Chara Kaifa
- DD Debarati Das
- DR Dolly kain
- DA Dr anurag tripathi
- DR DR ASHWINI KUMAR SRINIA
- DR DR BASANTA K Das
- DR DR Gurjan Garg
- DD Dr Garpreet kaar



List of Participants (Event: Online One-Week International Faculty Development Programme On “Revolutionizing Agriculture: Novel Perspectives on Technological Innovations”; Date: 1st – 6th April 2024)

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