

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली - 110007

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वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

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2024-2025



Event Name : Talk on “Process of Innovation Development, Technology Readiness Level (TRL), Commercialization of Lab Technologies and Tech-Transfer Demand”

Organized by : Institutions Innovation Council, Department of Botany & IQAC

Date : 14th December, 2024 (online)

Duration : One day

Convener : Dr. Ambika

Coordinator(s) : Dr. Bhavana Sharma Jha, Dr. Pratibha Tiwari, Prof. Monica Koul

Number of student Participants : 38 Number of Faculty Participants : 06 Expenditure Amount (If Any) : NIL Mode of Session Delivery : Online

Objective of Program : Encourage innovation and entrepreneurship skills

Benefit in Terms of Learning /Skill/Knowledge Obtained : Students learnt about various aspects of start-ups, funding and transfer of technologies from Lab to Land.

Link of program : <https://meet.google.com/nqe-ijjg-zzx>

Report of the Webinar :

The webinar started with the introduction of the resource person, Dr Nishat Head (Ph.D., ICGEB) of Biologia Research India, a leading organization dedicated to enhancing practical knowledge and skills in the field of Life Sciences by Dr. Bhavana Sharma Jha, Assistant Professor, Department of Botany, University of Delhi. The webinar elaborated on the process of innovation development, focusing on the different stages of Technology Readiness Level (TRL). The emphasis was on advancing lab-based research to higher TRL stages, facilitating the transition from conceptual studies to real-world products



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and solutions. The speaker discussed the commercialization of lab technologies and the challenges and opportunities in transferring these technologies to industry. He suggested that the academic research has to be aligned with market demands to ensure the solutions are viable and accepted by the public. Dr. Nishat focused on gamma radiation-induced mutations. Researchers used gamma radiation to select bacteria capable of forming beneficial symbiotic associations with various crops. This innovative approach helps in enhancing agricultural productivity. Use of Carboxy Methyl Cellulose (CMC) for enhancing nodulation in crops was elaborated upon. This cellulose-based compound helps in promoting the formation of nodules, thereby aiding in plant growth and improving crop yield. It was highlighted that understanding of basic sciences can help in developing novel solutions in the form of a multipurpose nodulating fertilizer that helps in nodulating diverse legumes. This technology reduces production costs and provides a cost-effective solution for agriculture. The single fermenter system enables efficient production while maintaining the effectiveness of the fertilizer, bridging the gap between laboratory research and field application - Lab to Land. Dr. Nishat highlighted the facilities offered by his start-up company, focusing on providing resources for both research and training. His company offers an array of services to support research initiatives, including access to advanced technology and training platforms, which enable the development of new products and innovations. The webinar successfully brought together diverse aspects of innovation, from foundational research to real-world applications. Students and teachers asked a few questions related to the limitations and challenges faced by start-ups and it was concluded that bridging the gap between academia and industry, with a focus on addressing market demands and public acceptance holds the key for the future. The Webinar closed with the Vote of Thanks to the speaker Dr Nishat by Prof Monika Koul, IIC and TIC, Department of Botany, Hansraj College.

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हंसराज कॉलेज
— दिल्ली विश्वविद्यालय —

विकसित भारत
अभियान
1947 TO 2047



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

**INSTITUTION'S INNOVATION COUNCIL (IIC) &
DEPARTMENT OF BOTANY
IN COLLABORATION WITH
IQAC
HANSRAJ COLLEGE
ORGANIZES
A WEBINAR
On**



**Process of Innovation Development,
Technology Readiness Level (TRL),
Commercialization of Lab Technologies &
Tech-Transfer**

**Dr. Nishat Pasricha
(Ph.D, ICGEB)
Research-Head
Biologia Research**

- Biologia Research India is a leading organization dedicated to enhance practical knowledge and skills in Life Sciences.
- It offer a range of training programs, seminars, and on-site training to cater to the needs of students & industrial professionals.



**PROF. (DR.) RAMA
Patron**

DR. BHAVANA SHARMA JHA

Event Co-Ordinator
IIC-HRC, DU

PROF. MONIKA KAUL

IPR Co-Ordinator
IIC-HRC, DU

DR. PRATIBHA TIWARI

Innovation Co-Ordinator
IIC-HRC, DU

DR. AMBIKA

Convenor
IIC-HRC, DU

14 December, 2024 (12:40 p.m)



<https://meet.google.com/nqe-ijjg-zzx>

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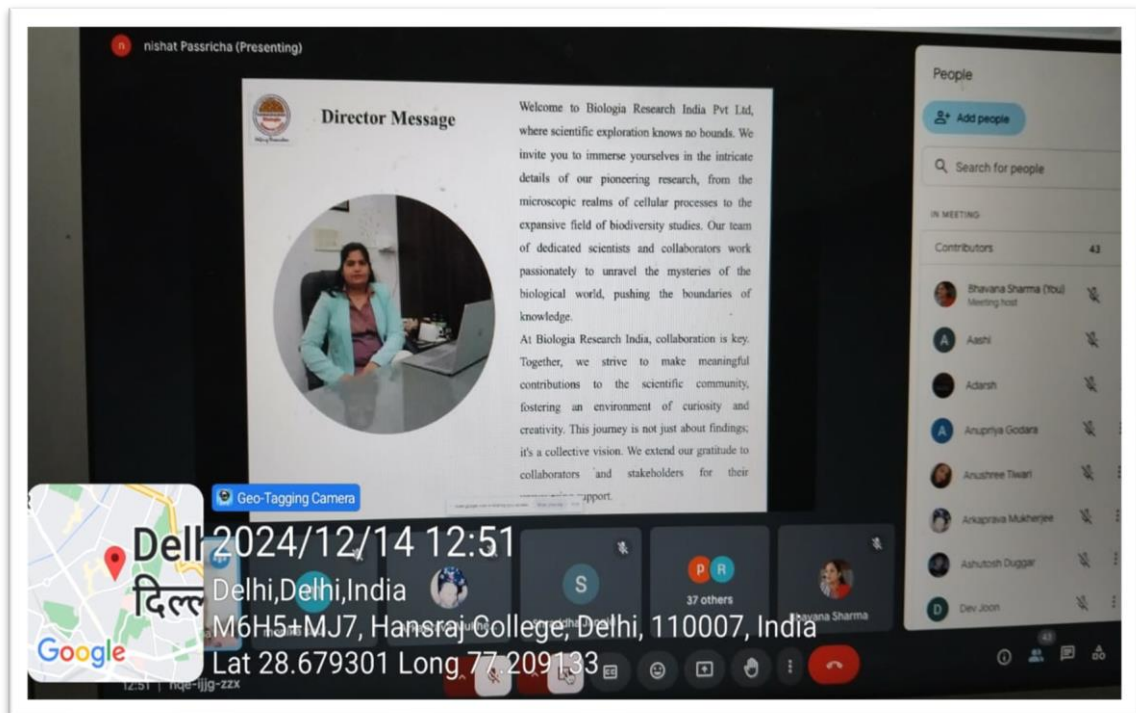
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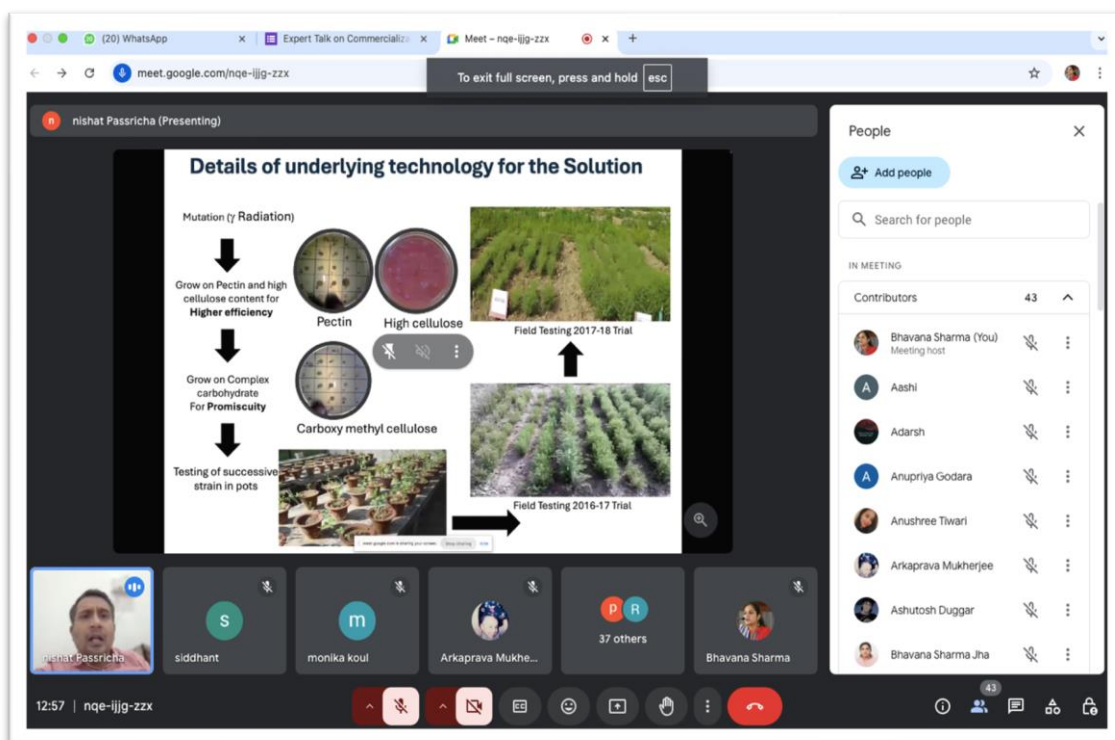
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There were a total of 43 participants in the webinar including both the faculty members and students of Hansraj College :

1. Prof. Monika Koul
2. Dr. Bhavana Sharma Jha
3. Dr. Ritu Pandey
4. Dr. Savita Singh
5. Dr. Pratibha Tiwari
6. Dr. Suyash

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List of Students Participated

Sr. No.	Name	Course
1.	Kanak raj	Bsc(program) physical science with computer science
2.	Shasank Shekhar	Bsc (H) Zoology
3.	Jai Singh	B.Sc. (H.) Zoology
4.	Vidushi Malik	Bsc. Zoology Hons
5.	Shivam Jaiswal	B.Sc Hons Zoology
6.	Mayankita Verma	Bsc(hons) anthropology
7.	Shreya	Bsc (hons) Zoology
8.	Dev Joon	Bsc (H) Zoology
9.	Aashi	Bsc zoology
10.	HIMANSHI	B.S.c. Zoology (hons)
11.	Vatsaraj Anand	B.Sc(Hons)Zoology
12.	Tamanna Agarwal	Zoology hons
13.	Arka Prava Mukherjee	B.Sc. (Hons.) Botany
14.	Shraddha Jangid	B.Sc(Hons.) Zoology
15.	Tapaswi kumar Sahu	Botany hons
16.	Adarsh	B.Sc. (H) Botany
17.	Saksham sharma	Botany hons
18.	Anushree Tiwari	Bsc life sciences
19.	Ravi Raj	BSC botany
20.	Manvi	Bsc botany hons
21.	Tanya Verma	Botany Honour

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22.	Shayana Kumar	B.sc (hons) Botany
23.	Varsha	Botany
24.	Tanishka Rani	B.Sc. Hons Botany
25.	Randeep Singh Rhankar	B.Sc Hons. Botany
26.	Sandhya Meena	Bsc. (H) Botany