

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

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HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

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2024-2025

Name of the Event: International Seminar: Field Trials with Transgenic Aspen- Key Takeaways and Ecological Implications

Organised by: Botanique – the botanical society

Date of the Event: 11 November, 2024

Duration/Event Timing: 12:30 PM – 2:30 PM

Venue of the Event: Multipurpose Hall C-Block

Name of Coordinator(s): Dr. Ridhi Khurana

Name of Convener:

Dr. Mahaswetta Saikia, Convenor

Dr. Ridhi Khurana, Co-Convenor

Event Description

Botanique, the Botanical society of Hansraj College, recently organised an international seminar that illuminated the ongoing advancements in forestry and genetic research. Dr. Benedicte Riber Albrectsen, a distinguished scientist from the Umeå Plant Science Centre, Department of Plant Physiology, Umeå University, Sweden, shared her expertise on Populus species, with a specific focus on transgenic Aspen. Prof. Monika Koul, Teacher In-Charge of Botany, gave a warm welcome to the guest speaker to the college and the department of botany and Dr. Mahaswetta welcomed the guest by presenting a token of appreciation. Dr. Ridhi Khurana introduced the speaker to the audience. Dr. Benedicte started her presentation by introducing Sweden's rich forestry heritage and its commitment to sustainable innovations. She highlighted how transgenic Aspen modified at genetic level, holds the potential to transform traditional forestry practices by addressing environmental and economic challenges. Her research conducted on Aspen trees, revolves around the complexities of genetic expression and how specific genes influence growth, pest resistance and adaptability. The work

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provided rare glimpses of the long term field trials and rigorous testing involved in developing transgenic trees. She discussed the modifications to cell wall acetylation, a crucial process which affects Aspen's structural properties and makes the breakdown (saccharification) of plant material. By reducing acetylation, transgenic Aspen can facilitate easier biomass conversion, a significant benefit for biofuel production. She introduced active RWA transporters, which transport acetyl-CoA from Golgi apparatus (Dictyosomes) to the cytoplasm, influencing the tree's cellular functions. Moreover she discussed compounds unique to Aspen, such as Salicin, Salicortin, Salicinoid phenolic glycosides known for their protective roles and ecological interactions. Her insight information to the global role of Aspen salicinoids, emphasising the need to understand leaf content and gene function comprehensively. Her research showed how genes interact within a complex network, supporting various biological functions, including defence mechanisms and growth. This seminar not only broadened attendees' understanding of transgenic Aspen but also highlighted the role of genetics in achieving sustainable forestry solutions.

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Five Geo-tagged Pictures:



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Attach Attendance Sheet:

NAME	COURSE	YEAR
Ansika	BSc (H) Botany	II
Anas	BSc (H) Botany	II
Bhoomi	BSc (H) Botany	II
Prachi	BSc (H) Botany	II
Aarna	BSc (H) Botany	II
Ayesha	BSc (H) Botany	II
Vansh	BSc (H) Botany	II
Gaurav	BSc (H) Botany	II
Shivendra	BSc (H) Botany	II
Divya Raj	BSc (H) Botany	II
Disha	BSc (H) Botany	II
Khushi	BSc (H) Botany	II
Abhijeet	BSc (H) Botany	II
Dhyan Siddharth	BSc (H) Botany	II
Khushi	BSc (H) Botany	II
Ayush	BSc (H) Botany	II
Aaroh	BSc (H) Botany	II
Abhilasha	BSc (H) Botany	II
Shamsiya	BSc (H) Botany	II
Sonam	BSc (H) Botany	II
Khushi	BSc (H) Botany	II

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Amish	BSc (H) Botany	II
Tanvi	BSc (H) Botany	II
Parth	BSc (H) Botany	II
Sheen	BSc (H) Botany	II
Yash	BSc (H) Botany	II
Rohan	BSc (H) Botany	II
Akansha	BSc (H) Botany	I
Bhavna	BSc (H) Botany	I
Guddi	BSc (H) Botany	I
Mansvi	BSc (H) Botany	I
Sandhya	BSc (H) Botany	I
Rashmi	BSc (H) Botany	I
Ravi	BSc (H) Botany	I
Suhani	BSc (H) Botany	I
Adarsh	BSc (H) Botany	I
Aditya	BSc (H) Botany	I
Koushik	BSc (H) Botany	I
Randeep	BSc (H) Botany	I
Nikita	BSc (H) Botany	I
Pari	BSc (H) Botany	I
Sidhant	BSc (H) Botany	I
Mukul	BSc (H) Botany	I
Adarsh	BSc (H) Botany	I

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Debashish	BSc (H) Botany	I
Anjali	BSc (H) Botany	I
Shala Parween	BSc (H) Botany	I
Rajdeep	BSc (H) Botany	I
Anant	BSc (H) Botany	I
Anushka	BSc (H) Botany	III
Vaishnavi	BSc (H) Botany	III
Kalpana	BSc (H) Botany	III
Rhythm	BSc (H) Botany	III
Sarika	BSc (H) Botany	III
Nishant	BSc (H) Botany	III
Shachi	BSc (H) Botany	III
Ashi	BSc (H) Botany	III
Khyati	BSc (H) Botany	III
Ritu	BSc (H) Botany	III
Anshika	BSc (H) Botany	III
Kuber	BSc (H) Botany	III
Krish	BSc (H) Botany	III
Nirmal	BSc (H) Botany	III
Anirban	BSc (H) Botany	III
Naincy	BSc (P) Life Sciences	III
Preeti	BSc (P) Life Sciences	III
Naincy	BSc (P) Life Sciences	III

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Vanshika	BSc (P) Life Sciences	III
Ghanish	BSc (P) Life Sciences	III
Vishnu	BSc (P) Life Sciences	III