


Frontier Lecture on Plant genomics for crop improvement was led by Prof. Paramjith Khurana, Department of molecular biology, University of Delhi on 14/03/2024

PROVIDENCE WOMEN'S COLLEGE,  
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DEPARTMENT OF BOTANY

**DR. JIJA MATHEW MEMORIAL  
FRONTIER LECTURE**

TOPIC: "PLANT GENOMICS FOR CROP  
IMPROVEMENT"




RESOURCE PERSON:  
**PROF. PARAMJITH KHURANA**  
Rtd. PROFESSOR,  
DEPARTMENT OF PLANT MOLECULAR BIOLOGY  
UNIVERSITY OF DELHI

VENUE: CARMEL HALL  
14 MARCH, 2024  
10.30 AM

1 SAFETY 2 ACCESS 3 HEALTH 4 SECURITY

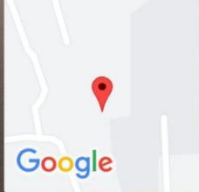
Plant Genomics for Crop  
Improvement



Paramjit Khurana  
Department of Plant Molecular Biology  
University of Delhi South Campus  
New Delhi-110021, India

GPS Map Camera

Kozhikode, Kerala, India  
7RW4+V72, Kannadikkal, Kozhikode, Kerala 673009, India  
Lat 11.297°  
Long 75.804629°  
14/03/24 10:55 AM GMT +05:30





**Date: 14 March 2024**

**Venue: MV Hall**

**Organized By: Department of Botany**

**Participants: 51 students from I UG, IPG and II PG Botany Students**

As part of the research initiative to promote knowledge in scientific fields, a Frontier Lecture on “**Plant Genomics for Crop Improvement**” was delivered on 14 March 2024 by **Professor Paramjith Khurana**, a renowned expert and Retired professor from the Department of Molecular Biology, University of Delhi. The primary objective of the lecture was to introduce students, researchers, and faculty members to the field of plant genomics and its applications in sustainable agriculture and global challenges. Prof. Khurana highlighted the pivotal role of plant genomics in addressing global food security challenges.

She explained how advances in genomic technologies have enabled the development of crop varieties with enhanced yield, resilience to climate change, and resistance to pests and diseases. Specific examples were discussed on genomic interventions in staple crops like rice, wheat, and maize. Prof. Khurana underscored the importance of genomic selection, marker-assisted breeding, and gene editing techniques, such as CRISPR-Cas9, in modern agriculture. Research on developing crops with enhanced drought resistance to mitigate the impact of climate change. The session concluded with an engaging question-and-answer session, where the students discussed the ethical, economic, and environmental implications of genetic tools in agriculture. Professor Khurana provided thoughtful responses, addressing concerns and inspiring participants to explore plant genomics.

# DR. JIJA MATHEW MEMORIAL

## FRONTIER LECTURE

RESOURCE PERSON: Prof. PARAMJITH KHURANA.

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TOPIC: PLANT GENOMICS FOR CROP IMPROVEMENT  
(14/03/2024)

No.	Name	Class	Contact Details	Remarks and Sign
1.	Adhita Mubawara	1 <sup>st</sup> Msc botany		<u>Adhita</u>
2.	Aswathi.M.M	2 <sup>nd</sup> Bsc botany		<u>Aswathi</u>
3.	Ananya k.c	2 <sup>nd</sup> Bsc Botany		<u>Ananya</u>
4.	Anagha.N.P	1 <sup>st</sup> MSc Botany		<u>Anagha</u>
5.	Shifa Rahman.c	1 <sup>st</sup> MSc Botany		<u>Shifa</u>
6.	Anagha.P	1 <sup>st</sup> MSC BOTA NY		<u>Anagha</u>
7.	Nandhana.K	2 <sup>nd</sup> Bsc Botany		<u>Nandhana</u>
8.	Athulya.M.	"		<u>Athulya</u>
9.	Athulya.V.P	"		<u>Athulya</u>
10.	Munny Fathima	"		<u>Munny</u>
11.	Arya Suresh.P	"		<u>Arya</u>
12.	Saranya Das.P	"		<u>Saranya</u>
13.	Devasandha	"		<u>Devasandha</u>
14.	Anasika.Kp	"		<u>Anasika</u>
15.	Soneha Jayaraj	"		<u>Soneha</u>
16.	Rinsha.VA	"		<u>Rinsha</u>
17.	Nandana.A.K	"		<u>Nandana</u>
18.	fathima Safa K.M.	2 <sup>nd</sup> MSc Botany		<u>fathima</u>
19.	RAMISHA mp	1 <sup>st</sup> MSc Botany		<u>Ramisha</u>
20.	Shwetha Ravindran	"		<u>Shwetha</u>
21.	Reshmi R.Raj	"		<u>Reshmi</u>
22.	Fathima Diyana	"		<u>Fathima</u>
23.	Fathima Shafecqua.U	"		<u>Fathima</u>
24.	Reshma.M.B	"		<u>Reshma</u>
25.	Aysha Pujan.c	"		<u>Aysha</u>
26.	Naufusa	"		<u>Naufusa</u>
27.	Varsha.P	"		<u>Varsha</u>
28.	Hanana shamila.Akkara	"		<u>Hanana</u>
29.	Anjana M. Gigi	"		<u>Anjana</u>

No	Name	Class	Contact details	Remarks & Sign
30	Anya K.N	1st Msc Botany		<del>Anya</del>
31	Riya Rojas	1 <sup>st</sup> Msc Botany		<del>Riya</del>
32	Aleena Baby	1 <sup>st</sup> Msc Botany		<del>Aleena</del>
33	Jimfa nluvin p.u	2 <sup>nd</sup> Msc Botany		<del>Jimfa</del>
34	Amala Mathew	2 <sup>nd</sup> Msc Botany		<del>Amala</del>
35	Snehasree S	2 <sup>nd</sup> Msc Botany		<del>Snehasree</del>
36	Devika T.	2 <sup>nd</sup> Msc Botany		<del>Devika</del>
37	Lamia P	2 <sup>nd</sup> Bsc Botany		<del>Lamia</del>
38	Anasriker	2 <sup>nd</sup> Bsc Botany		<del>Anasriker</del>
39	Nasla P	2 <sup>nd</sup> Bsc Botany		<del>Nasla</del>
40	Safa	II <sup>nd</sup> Bsc Botany		<del>Safa</del>
41	Fidha P P	II Bsc Botany		<del>Fidha</del>
42	DILSHA AKBAR KP	II Bsc Botany		<del>Dilsha</del>
43	Afla Muhammed	II Bsc Botany		<del>Afla</del>
44	Nidhila k	II Bsc Botany		<del>Nidhila</del>
45	Abisha Prakash	II Bsc Botany		<del>Abisha</del>
46	O.V. Meenakshi	II Bsc Botany		<del>Meenakshi</del>
47	Shyama K	II PG Botany		<del>Shyama</del>
48	Akshaya N	2 <sup>nd</sup> PG Botany		<del>Akshaya</del>
49	Akhila M	)		<del>Akhila</del>
50	Anjana O	Ind PG Botany		<del>Anjana</del>
51	Fatima Rafiah NI	Research scholar		<del>Fatima</del>
52	De			
52	Aysha			