











Ministry of Environment, Forest & Climate Change (MoEFCC)
Government of India

**CSIR-National Botanical Research Institute (NBRI)** 

Environmental Information, Awareness, Capacity Building & Livelihood Programme Centre (NBRI-EIACP-PC-RP) Rana Pratap Marg, Lucknow



## NBRI-EIACP

## INTERNATIONAL DAY FOR BIODIVERSITY

Harmony with nature and sustainable development

Webinar on the Topic "Indian Lichen Diversity on 22, May 2025





## Webinar on International Day for Biological Diversity (IDB) -2025 on the theme "Harmony with Nature and Sustainable Development"

In observance of the International Day for Biological Diversity (IDB)- 2025, NBRI-EIACP Programme Centre, Lucknow, organized an online webinar on this year's theme, "Harmony with Nature and Sustainable Development" on 22 May 2025. The webinar featured an enlightening expert lecture by Dr. D. K. Upreti, a renowned lichenologist and Emeritus Scientist, CSIR-NBRI) on the topic "Indian Lichen Diversity and Its Use in Environmental Pollution Monitoring & Climate Change." Dr. Upreti's extensive research has significantly advanced the field of lichenology in India, with over 400 research papers and several books to his credit.







Dr. Upreti highlighted India's rich lichen biodiversity, encompassing over 2,000 species across diverse ecosystems, from the Himalayas to coastal regions. He emphasized the ecological significance of lichens as symbiotic

organisms composed of fungi and algae or cyanobacteria, which play crucial roles in nutrient cycling and serve as indicators of environmental health.

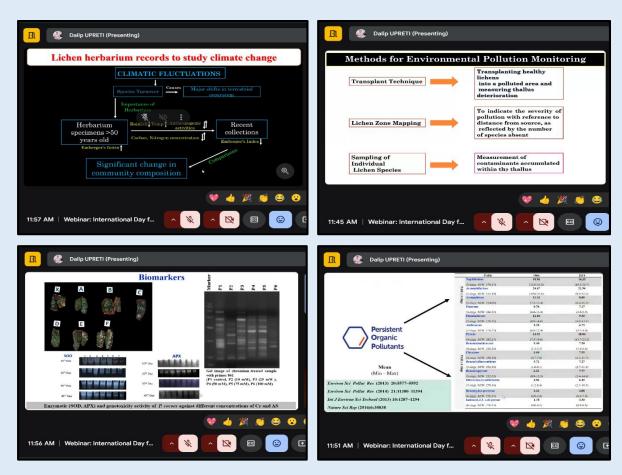






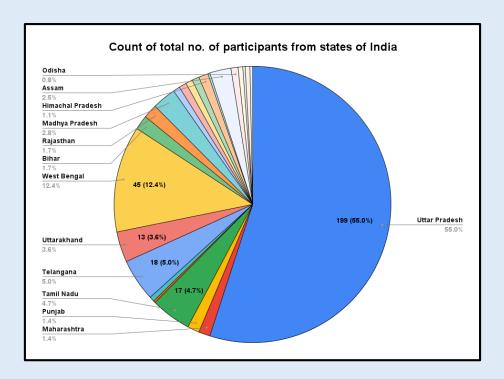
Addressing climate change, Dr. Upreti explained how shifts in lichen diversity and distribution patterns can serve as indicators of climatic variations. He referenced studies from the Garhwal Himalayas, where changes in lichen communities correlated with increasing anthropogenic activities and environmental stressors. Such observations underscore the

potential of lichens as bioindicators for monitoring the impacts of climate change on the ecosystem. The lecture underscored the utility of lichens in monitoring environmental pollution due to their sensitivity to air quality and ability to accumulate heavy metals and other pollutants. Dr. Upreti presented findings from studies conducted in Central India, where lichens were used to quantitatively assess atmospheric heavy metal deposition. He also discussed research on the accumulation of polycyclic aromatic hydrocarbons (PAHs) in lichens from urban areas, demonstrating their effectiveness in detecting organic pollutants.



Dr. Upreti's keynote lecture provided valuable insights into the significance of Indian lichen diversity and its applications in environmental monitoring and climate change assessment. His work underscores the importance of lichens as bioindicators and calls for their broader utilization in ecological studies and environmental management strategies.

A total of 362 candidates enthusiastically registered during the webinar from 24 states of India, and 123 educational institutes. Among the highest candidates from Uttar Pradesh (199), followed by West Bengal (45), Telangana (18), Tamil Nadu (17), and Uttarakhand (13), etc.



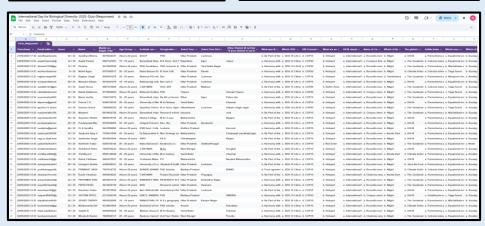
The webinar features an interactive Q&A session and a quiz competition followed by a lecture. The quiz content included 15 questions related to the biodiversity theme, each with two marks. The top three winners of the quiz competition:

Position	Name	Institute	Class	Score
First	Samiksha Singh	Indira Gandhi Agricultural	Ph.D.	30/30
	Dewangan	University Raipur		
Second	Mariyam Abbas	National Post Graduate	Bsc	28/30
		College,Lucknow		
Third	Prerna T D	University of Madras	M.Sc Botany	28/30

All the participants get e-certificates, and the top three winners of the quiz contest get a rank certificate.

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Section 1 of 16			
International Day for Biological Diversity			
(IDB)- 22 May, 2025 - Online Quiz			
B I U co X			
The CSIR-National Botanical Research Institute is Environment Information, Awareness, Capacity Building and Livelihood Programme Centre (MBR-BLAD-PC) organizing an online quiz to raise awareness about the importance of biodwardy conservation and sustainable development.  #BiodiversityDay#HarmonyWithNatureAndSustainableDevelopments#			
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Age Group: *			
○ 10 - 19 years			
20 - 25 years			
Above 25 years			
Institute name/ University name: *			
Short-answer text			

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	Ministry of Environment, Forest and Climate Change, Government of India
	Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP)  Programme Centre on "Plant and Pollution"
	CSIR-National Botanical Research Institute, Lucknow
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	ou for attending the webinar. Please take a minute to share your feedback with us. Your input is and helps us improve future events.
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Do you	aware about International Day for Biological Diversity before this webinar *
O Yes	
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O May	/be
Was the	e duration of the webinar appropriate? *
O Too	long
O Jus	t right
○ Too	short







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