



NAAC ACCREDITED 'A++' GRADE COLLEGE

2024-2025

Name of the Event: Workshop on "Use of AI in Protein - Protein interactions (PPIs)"

Organised by: Department of Botany and MH- MMTTC

Date of the Event: 6th September 2024

Duration/Event Timing: 4.00 Pm to 5.30 PM

Venue of the Event: Online, zoom platform

Name of Coordinator(s): Dr Pooja Jha Maity, Mr Ashutosh Yadav

Name of Convener: Prof. Monika Koul

Event Description (About 250 Words)

Session Report: Workshop on "Use of AI in Protein - Protein interactions (PPIs)"

On 6th September 2024, the Mahatma Hansraj - Malviya Mission Teacher Training Centre (MH-MMTTC), in collaboration with the Department of Botany, Hansraj College, organized an online workshop under the Malviya Mission Scheme, UGC. The event was attended by more than 60 participants. The session began with an introduction of the guest speaker, Dr. Manjeet Kumar, Bioinformatics Scientist at the European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, by Prof. Monika Koul from the Department of Botany, Hansraj College. Dr. Kumar delivered an insightful talk titled on **"Use of AI in Protein - Protein interactions (PPIs)"**. The workshop focused on a detailed discussion **Impact of AI in Illuminating Mechanistics of Protein-Protein Interactions**, which regulate numerous cellular processes, including diseases like cancer. While databases such as STRING catalog millions of PPIs, there remains a lack of mechanistic understanding. Dr. Kumar discussed Short Linear Motifs (SLiMs), which are hotspots originating from disordered regions of proteins, and how AlphaFold, an AI-driven tool, has advanced the identification and functional characterization of these interactions. The session highlighted AI's role in pushing bioinformatics to new heights. Participants raised numerous interesting questions during the lively Q&A session, and Dr. Kumar provided practical insights through data visualization tools, emphasizing that interaction webs are central to biology. Dr. Kumar said that the tools can be used for understanding all types of interactions in the living world including microbial plants, plant-pollinators and pathogen-pests including many others. He shared his email and encouraged curiosity as the hallmark of biological research. The session concluded with a formal vote of thanks by Dr. Pooja Jha Maity from the Department of Botany, Hansraj College, who expressed gratitude to Dr. Kumar for his insightful

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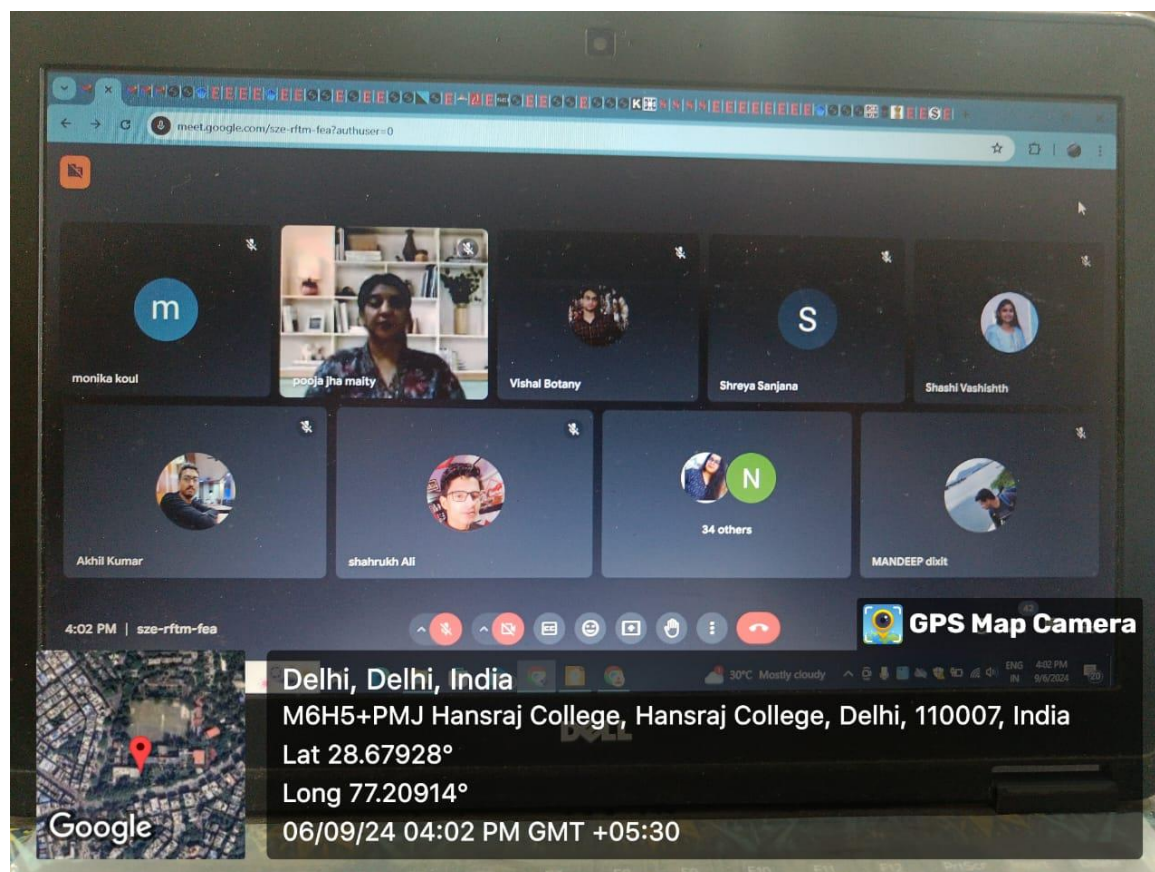
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presentation. Special thanks were also extended to Prof. Gitanjali Yadav from NIPGR for connecting Hansraj College with Dr. Kumar. Hansraj College is deeply grateful for her continuous support.

Meeting organized on zoom platform: <https://embl-org.zoom.us/j/5472063791?pwd=TUJuRGRza1lxbrDBrQ3RwWVks5V1M5UT09>

Five Geo-tagged Pictures:



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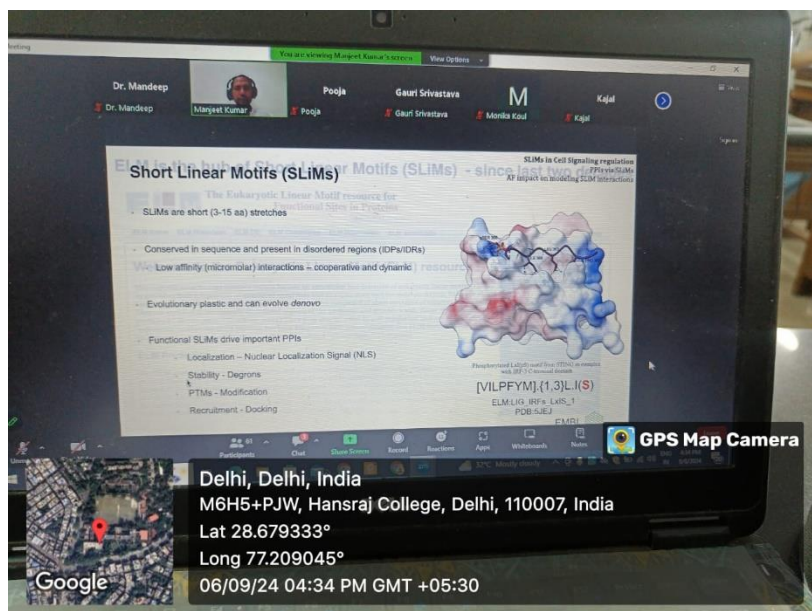
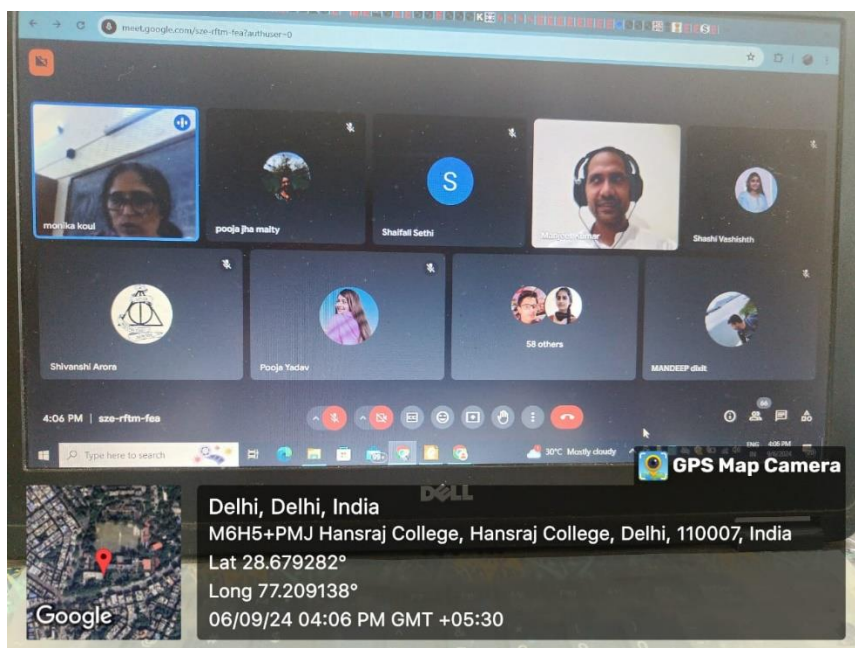
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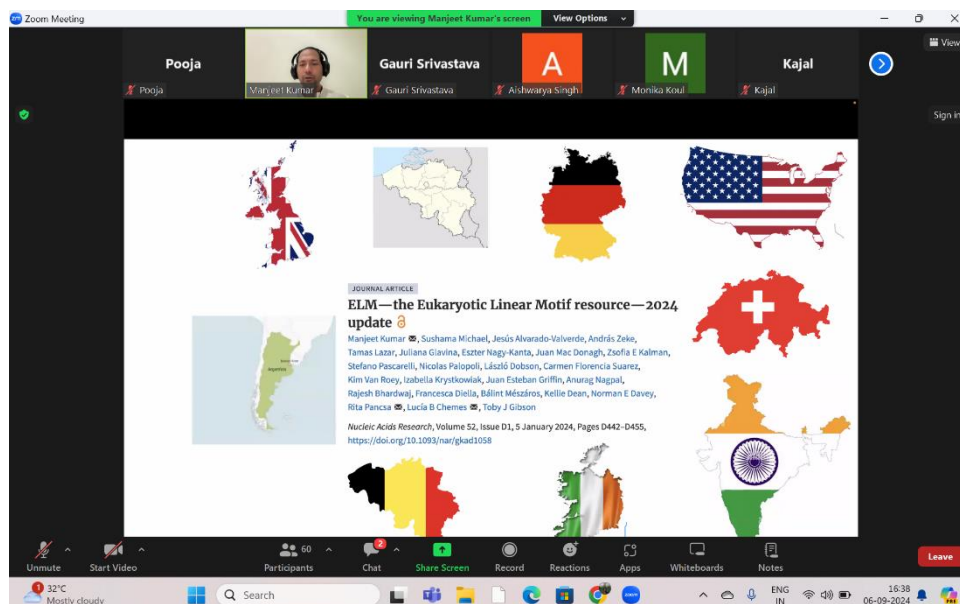
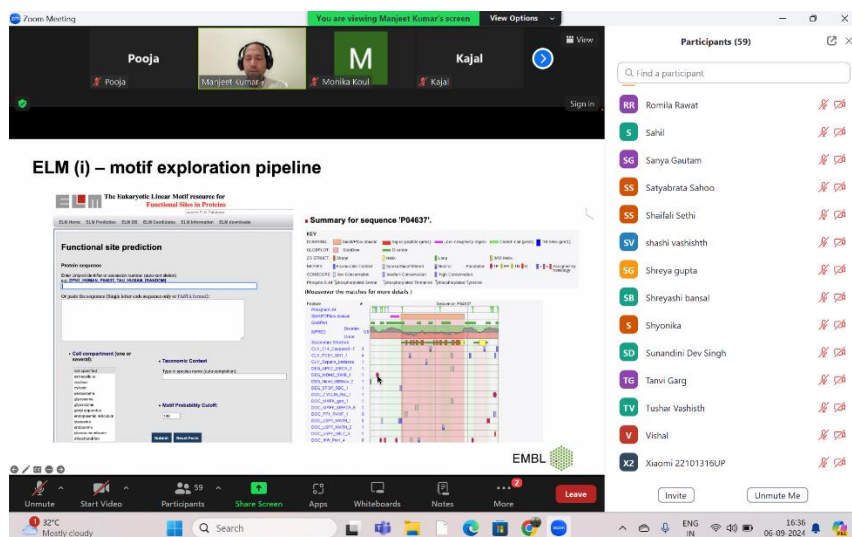
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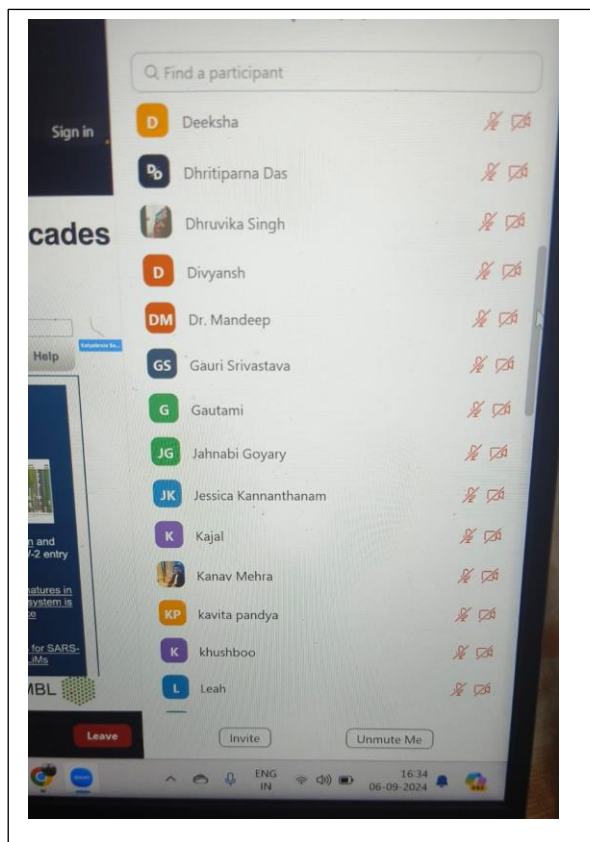
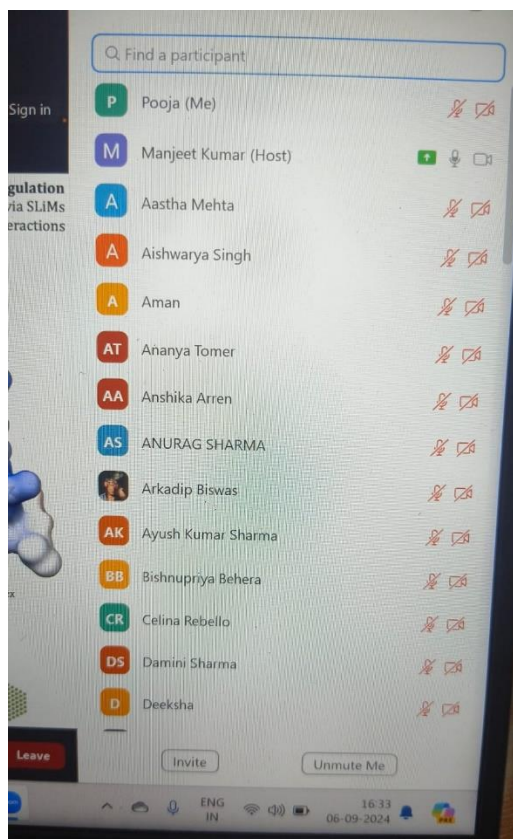
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Attach Attendance Sheet



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