SCIENCE SETU WEBINARS by NIPGR

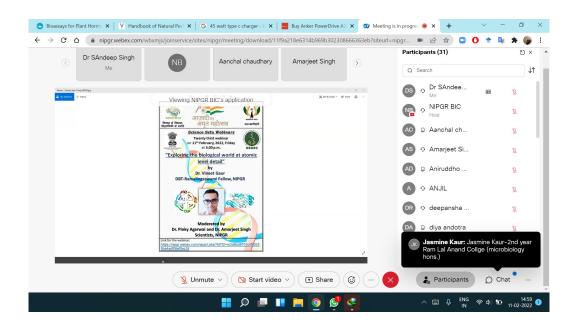
"Exploring the Biological World at Atomic Level Detail" Press Note

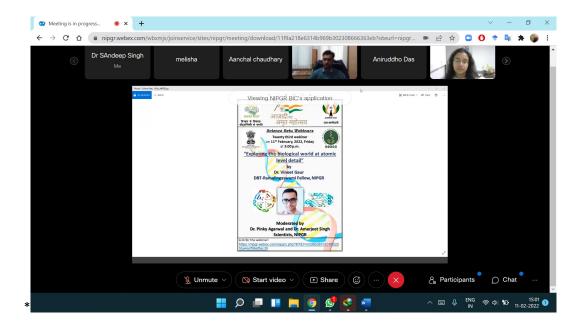
Date: 11th FEBRUARY, 2022, Friday

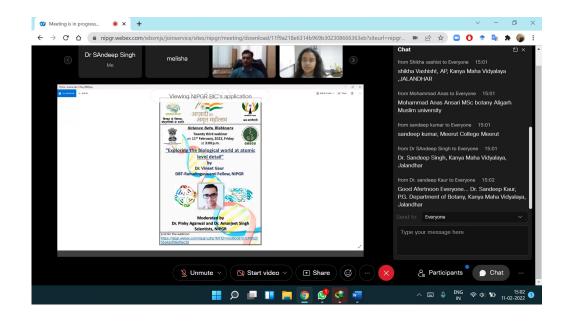
Resource person: Dr. Vineet Gaur, DBT-Ramalingaswami Fellow, NIPGR

The Department of Biotechnology, Government of India, had planned "Science Setu Webinar" as a virtual platform to connect the Research Institutes with postgraduate and graduate students. Under this, our college has been assigned to National Institute of Plant Genome Research (NIPGR), New Delhi. NIPGR is an autonomous institution aided by the Department of Biotechnology. Research at NIPGR focusing on functional, structural, evolutionary and applied genomics of plants, including crop plants. Through this fourth webinar program, our students and faculty members virtually gained an amazing opportunity to connect with NIPGR, New Delhi and anticipated the effects of combined stresses of environmental factors on plant life. It was a spectacular opportunity for students at undergraduate and postgraduate level of science background on exposure to plant-based research on much higher level.

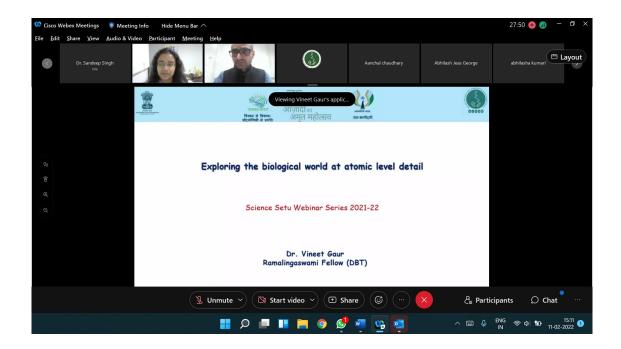
The resource person, **Dr. Vineet Gaur**, DBT-Ramalingaswami Fellow, NIPGR, started his talk by explaining the plant structures related to reproduction and plant anatomy. He explained the use of different microscopy techniques including electron and light microscope for visualization of these cellular structures in detail. He also explained the use of newly introduced techniques like neutron crystallography. He further gave an overview of the impossible X-ray microscope and its functioning with respect to optical microscopy. He discusses about the DNA polymerases, their functions and crystal structures obtained with crystallography. He explained the stereo selectivity of DNA polymerases in drug designing processes. The role of endonucleases and Holliday junctions was also discussed. He concluded his talk by summarizing the seed proteins, ligand interaction and understanding human diseases through food allergies. In total 79 participants, including faculty of science and students attended this online webinar. Dr. **Pinky Agarwal**, Scientist, NIPGR attended the queries of the participants and gave vote of thanks. It was an exciting and knowledgeable session for the students as well as faculty members.

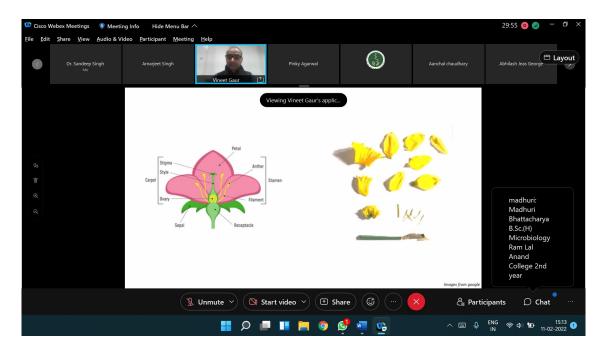


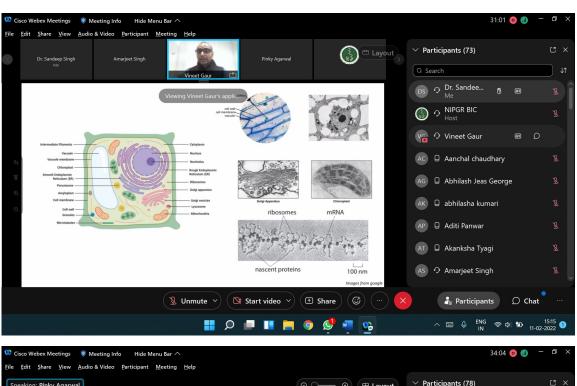


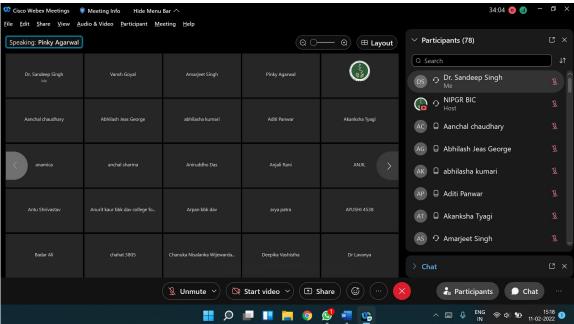


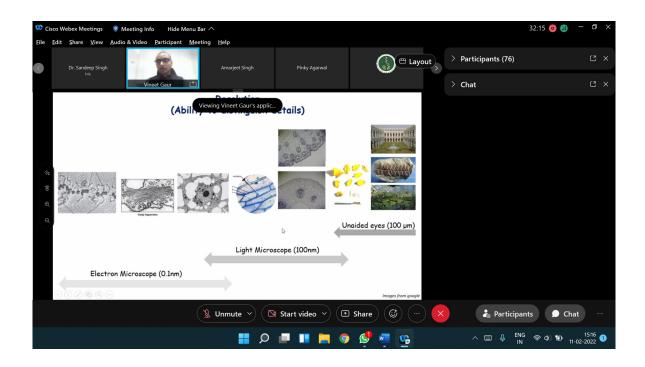


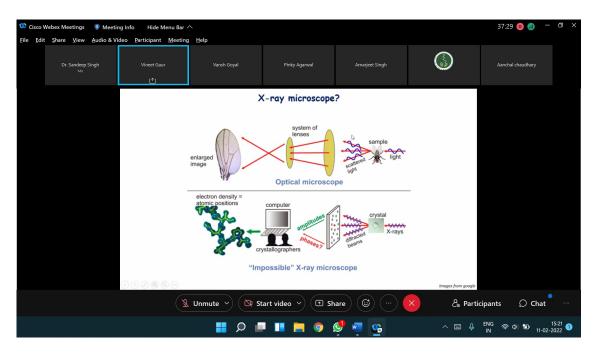


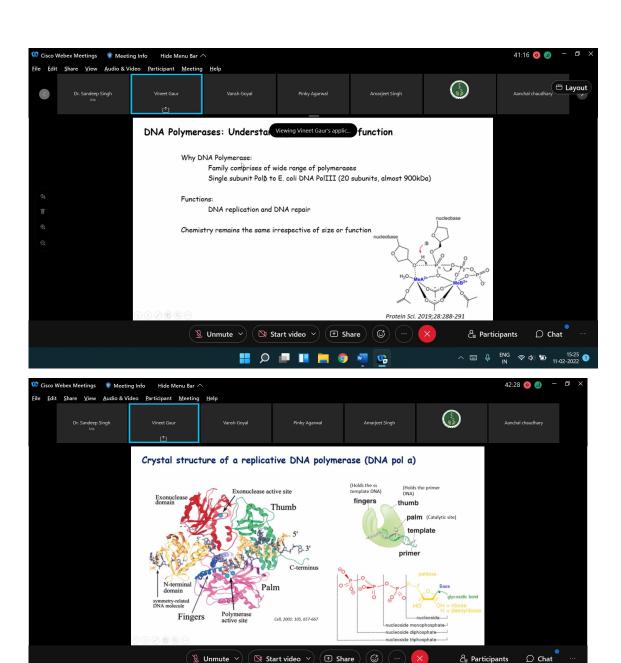












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