## Science Setu Webinars by NIPGR "Next Generation Molecular Breeding for A Food Sufficient Future" Press- Note Date:20-05-2022, Friday Resource person: Dr. Swarup K. Parida Scientist V, NIPGR

The Department of Biotechnology, Government of India, has planned "Science Setu" as a virtual platform to connect research Institutes with undergraduate 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 focuses on functional, structural, evolutionary and applied genomics of plants, including crop plants. Through the Science Setu program, our students and faculty virtually connect with NIPGR, New Delhi and got to know about the multifarious kinds of plant based research. It is a unique opportunity for science students at undergraduate level to get an exposure to high-level research.

Dr. Pinky Agarwal, Scientist, NIPGR gave welcome note on this event. **Resource person: Dr. Swarup K.parida, Scientist V, NIPGR** started hislecture by giving an introduction about global food security. Heemphasized on the role ofgreen revolution in high yield of wheat and rice by hybrid method. He started his talk with crop domestication and era of genetics. In addition, he discussed about sequenced food product and India's contribution in global genome sequencing project. Further, he explained his work on draft genome sequence of Desi, Kabuli and wild. After that He give relevance of pan genome in crop genomics. He also shares next generation molecular breeding for crop improvement. webinar was very resourceful. Faculty of Science and total science students attended the event. Dr. Pinky Agarwal, Scientist, NIPGR attended the questions of the participants and gave vote of thanks. It was an intellectual and exciting experience for all the participants.









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Speaking: SWARUP K. PARIDA Relevance of Pan-genome in Crop Genomics A pan-genome refers to the full complement of genes of a biological clade, such as a species, which can be partitioned into a set of core genes that are shared by all individuals and a set of dispensable genes that are partially shared or individual specific. Accession 2 Accession 3 Final Final Pan-genome Sub14 Final Pan-genome Final Pan-genome Sub14 Final Pan-genome Sub12 Sub14 Final Pan-genome Sub14 Final Pan-genome Sub12		trom Bharti Sharma 39 bsc medical sem6 to everyone: 3:23 PM Bharti Sharma 215439 BSC medical sem6 Kanya Maha vidyalaya jalandhar from Sneh Priya 4544 to everyone: 3:25 PM Sneh Priya from Shreya Sain to everyone: 3:25 PM Shreya Sain 4508 Bsc Hons Microbiology Ram Lal Anand College, Delhi from Sneh Priya 4544 to everyone: 3:25 PM Sneh Priya, 4544, Bsc H Microbiology, sem 2, Ram Ial anand college, du To: Everyone	
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