## <u>NINETEENTH SCIENCE SETU WEBINAR BY NIPGR</u>

## "Targeting Roots for Future Agriculture" Press Note Date: 10<sup>th</sup> December, 2021, Friday Resource person: Dr. Jitender Giri, Scientist V, 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. In celebration of **Azadi ka Amrit Mahotsav to Commemorate 75 years of Independence**, DBT-NIPGR has been organizing Science Setu Webinar Series 2021-2022. Through this 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 factorson 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.

Dr. Amarjeet Singh, Scientist, NIPGR gracefully introduced the resource person with his warm words. The resource person, Dr.Jitender Giri, Scientist V, NIPGR, opened his lecture with the introduction of problems with current agriculture in the context of sustainability. He discussed about the current agriculture, which uses modern high yielding crop varieties, which are highly input-intensive. He explained why future agriculture should be less inputefficient, i.e. crop production with less application of chemical fertilizers. He discussed the importance of roots and his work on the role of secretory acid phosphatases in crop production, improving root architecture and functions in rice. He explained how auxin-binding protein OsRMD regulated the mechanistic details of limited root growth regulation in response to low external phosphorus. He demonstrated the role of auxin biosynthesis, transport and signaling in regulating root hair length in response to low external phosphorus. At the end of his lecture, he concluded that the plants with improved roots can help achieve sustainable agriculture and then he acknowledged his team. In total 41 participants, including faculty of science and students attended the event. Dr. Pinky Agarwal, Scientist, NIPGR attended the questions of the participants and gave vote of thanks. It was a quite exciting and brainstorming experience for everyone.





























## Attendance list of Students

Roll No.	Class	Name
215212	B.Sc. Med Sem-1	Anjali
215303	B.Sc. Med Sem-3	Priya
215310	B.Sc. Med Sem-3	Shruti Kalia
215314	B.Sc. Med Sem-3	Kamni
2110001	M.Sc. Botany Sem-1	Deepika
2110007	M.Sc. Botany Sem-1	Priyanka
2110008	M.Sc. Botany Sem-1	Saba Salariya
2110009	M.Sc. Botany Sem-1	Mehak