Science Setu Webinars by NIPGR (Twenty First)

"Use of DNA sequencing in public life"

Date: 14th January, 2022

Resource person: Dr. Debasis Chattopadhyay, Scientist VII, 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 get to know about the multifarious kinds of plant based research. It is a unique opportunity for science students at undergraduate and postgraduate level to get an exposure to high-level research.

The resource person for twenty first science setu webinar was **Dr.Debasis Chattopadhyay**, Scientist VII, NIPGR. He explains the role of DNA sequencing in plant and animal life. DNA sequencing is a very accurate and effective technology to identify and track genetic differences between individuals and evolutionary events. With the technological advances and reduction of cost, DNA sequencing is being increasingly used in public life. New information is being discovered and new avenues are opening in the medical, agriculture and academic fields due to genomic insights. He discussed different next generation sequencing techniques and their uses, limitations and opportunities in various fields. The topic of the webinar was very interesting and would definitely help them in developing scientific mindset in students















