Fascination of Plants Day May 2021, by NIPGR, New Delhi A PEEK INTO THE SECRET WORLD OF PLANTS

Press- Note

Date: 31-05-2021, Monday

Resource persons: Dr. Subhra Chakraborty, Director, NIPGR and Dr. SaloniMathur, Staff Scientist IV, NIPGR

The Department of Biotechnology, Government of India, has planned an event to celebrate Fascination of Plants Day May 2021 "A Peek Into The Secret World Of Plants" 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 this event, 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. Subhra Chakraborty, Director, NIPGR showed all the labs to participants to NIPGR through a virtual tour. She started her lecture by telling the participants about the basics of science and research. She explained about the genesis of NIPGR laboratory and the work carried out by their students. She stressed upon the facilities available and research activities carried out in NIPGR. She explained Integrated Omics Analysis which included Metabolomics, Proteomics, Transcriptomics, Fingernomics and Genomics. She concluded her lecture discussing the Future of plant research mitigating Agricultural and clinical needs towards food & nutritional security. She mentioned the need to breed nutritive valueadded crops for better human nutrition and feed; breed varieties as source of medicinally important biomolecule for plant and human health; breed improved varieties resistant to specific diseases, pests and insects; linking agricultural innovations with clinical nutrition.

Resource person: Dr.SaloniMathur, Staff Scientist IV, NIPGR gave her talk on "Ten Interesting Discoveries in Plant Sciences". She started her lecture by telling the participants about the discoveries in plants on the basis of their size, nutrition, adaptations, habit and habitat. She told about the discovery of first cell and microscope. She explained about the different discoveries made by different scientists in the field of Botany. Then she stressed upon the discoveries made by Mendel and explained his laws of inheritance. She also told the students

about discovery of transposons made by Barbara McClintock and how plants prepare their food by converting light into chemical energy. She concluded her lecture by throwing light on improved agriculture production through plant tissue culture and biotechnological techniques and describe these techniques as "game changer". Science Faculty and nearly 50 science students attended the event. Dr. Pinky Agarwal, Scientist, NIPGR attended the questions of the participant's and gave vote of thanks. It was an intellectual and exciting experience for all the participants.





























