

**Brief Report on
Journal Club Presentation
by Department of Agriculture, IIAST, Integral University, Lucknow**

The Department of Agriculture, Integral Institute of Agricultural Science and Technology (IIAST) organizes Journal Club on regular basis to raise awareness among students, scholars, researchers, and academicians about the ever-evolving trends in the field of agrarian studies and is dedicated in promoting the exchange of knowledge concerning the latest developments in agriculture.

The journal club session was organized on September 9, 2023, at 10:00 A.M., in the Seminar Hall of the Department of Agriculture. Mr. Prabhakar Bura, a Research Scholar of the Department of Agriculture, IIAST, diligently delivered a comprehensive presentation in the seminar. He presented a research paper entitled “Plant mitochondrial introns as genetic markers – conservation and variation” published in the Frontier in Plant Science in 2023. Plant mitochondrial genomes are challenging for marker development due to their variability. Researchers have tested PCR primers based on conserved sequences flanking 11 introns in seven angiosperm species. These primers successfully amplified introns in various plants, revealing length polymorphisms more common among genera. Sequencing showed polymorphisms distinguishing some genera but not others. These primers are valuable for amplifying mitochondrial introns in diverse plant species and detecting polymorphisms. The paper discussion concluded that scientists have developed a useful method for studying the genetic diversity of plant species. They used specific DNA markers to analyze a part of plant genomes called mitochondrial introns. These markers worked well for some plant groups, helping distinguish between different species, but were less effective for others. Overall, this method provides a valuable tool for understanding the genetic makeup of various plant species.

Prof. Saba Siddiqui, Head, Department of Agriculture, IIAST, Integral University, addressed the audience and encouraged students for utilizing the platform for gaining knowledge. The presentation was concluded with the vote of thanks by Dr. Faria Fatima. The Programme was observed under the guidance of Prof. Mohd Haris Siddiqui, Dean, Faculty of Agricultural Science and Technology and Prof. Saba Siddiqui, Head, Department of Agriculture, IIAST. The Journal Club was successfully conducted by Dr. Faria Fatima, Dr. Suhail Ahmad Khan, and Dr. Shipra Yadav Coordinators, Journal Club.

Glimpse of the Journal club



