

Journal Club Presentation

Department of Agriculture

The Department of Agriculture, Integral Institute of Agricultural, Science and Technology (IIAST) has initiated IIAST Journal Club in order to share congruences with the latest trends in the field of agriculture and to create awareness amongst students, scholars, researchers and academicians about the agrarian counter-trend. The first session was held on 12/11/2022 at 10:30 A.M. in the Seminar Hall of Department of Agriculture. Perpetuating the same accord, a lucid presentation was given by Mr. Anupam Singh, lab instructor and Research scholar, Department of Agriculture, IIAST. He presented a research paper entitled “Substitution of mineral fertilizers with biof-ertilizeran alternate to improve the growth, yield and functional biochemical properties of strawberry (*Fragaria × ananassa* Duch.) cv. Camarosa” published in the Journal of Plant Nutrition in 2021. The paper was discussed thoroughly which concluded that 75% RDF Azospirillum @2 g /plant PSB @ 2 g plant topdressing of 25% K and 75% RDF Azotobacter @ 2 g/ plant PSB @ 2 g plant topdressing of 25% K were highly effective for inducing earliness in flowering, fruiting with highest yield of quality fruits of strawberry cv. Camarosa. In addition, these two treatments also improved the soil fertility status with respect to improvement of soil organic carbon, (available NPK content in the soil) as well as increase in viable micro-organism in the soil in the form of bacteria, actinomycetes and fungi. Hence, these two treatments can be used as the potential substitute or best alternative against conventional mineral fertilization to increase the yield of strawberry cv. Camarosa without hampering the soil fertility status under subtropical humid conditions. This topic extensively reinforces the concept of sustainable agriculture with increased utility of bio-fertilizers.

Dr. Devendra Pandey, Acting Director and Principal Scientist, Department of Horticulture, Central Institute of Subtropical Horticulture (CISH), Lucknow, was present as an external expert. Queries from various students’, scholars, researchers and faculty members were addressed by the presenter and an interactive doubt clarifying session was conducted. Dr. Devendra Pandey, provided his valuable advice and expertise as well addressed the audience about the concept meticulously. He summed up the session with his congratulatory remarks.

Dr. Saba Siddiqui, Head, Department of Agriculture, IIAST, Integral University, addressed the audience and encouraged students for utilizing the platform for gaining knowledge. She explained the importance of research discussions in such forums.

The presentation was concluded with the vote of thanks by Dr. Faria Fatima, Coordinator, Journal Club.

**Glimpse of Journal Club Presentation, 12th November, Department of Agriculture,
IIAST**



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XX5V+P9P, Adhar Khera, Uttar Pradesh 226021, India
Lat 26.959257°
Long 80.993386°
12/11/22 10:44 AM GMT +05:30



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Long 80.993446°
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