

## **Report on visit to IIHR, Bangalore**

Students of both first and second year M.Sc Microbiology visited Indian Institute of Horticulture Research (IIHR), Hesserghata, Bangalore as a part of institutional visit on 25<sup>th</sup> July 2024.

Faculties accompanied: Dr Snehalatha V, Dr Nimita Venugopal C

### **Objectives of the Visit:**

1. To gain insights into the role of microbiology in horticultural research and practices.
2. To observe ongoing research projects related to plant health and disease management.
3. To engage with researchers and experts in the field of horticulture and microbiology.

The students got the knowledge of all scientific inventions happening at the institute which motivated the students to plan their future related to research in horticulture field. Visit to department of Biotechnology gave the practical exposure to plant tissue culture starting from media preparation to callus culture and tissue culture plants which were explained by the scientist of the department. Biotechnology department are engaged in specific research activities under the following thematic areas: Gene discovery, regeneration and transgenics, Molecular markers, Marker Assisted Selection, Functional Genomics, Bioinformatics & Endophytic molecular microbiology. The department is known for significant achievements in the areas of development of molecular markers for okra & markers for root-stock identification in citrus, development of BT transgenic brinjal & tomato & RNAi mediated approach for insect pest resistance. Cloning of genes for fungal resistance and transgenic development, development of embryogenic suspension of banana & GM banana for Fusarium wilt resistance are also carried out in the department along with development of GM tomato, papaya & watermelon for virus resistance. Elucidation of ubiquitous association of endophytic microorganisms in vivo and in vitro and the discovery of periplasmic bacteria in banana. Visit to department of pathology, and mushroom cultivation were also made. Also visit to nursery helped the students to view different saplings of plantation crops.

### **Conclusion:**

The visit to the Indian Institute of Horticultural Research provided M.Sc. Microbiology students with valuable insights into the intersection of microbiology and horticulture. The experience emphasized the importance of microbial research in promoting sustainable agricultural practices and enhancing plant health.

## Few Glimpse of visit





