REPORT ON INDUSTRIAL VISIT TO CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY (IICT), HYDERABAD

The School of Pharmacy, Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), organized an educational visit to the **CSIR-Centre for Cellular & Molecular Biology (CCMB), Hyderabad**, for **IV Year B.Pharmacy students** on **29th September 2026**. The visit was arranged to provide students with practical exposure to advanced research facilities, analytical instrumentation, and scientific innovations in the fields of pharmaceutical sciences, chemistry, and biotechnology.

Accompanying Faculty

- **Dr. Y.Vishwanadham**
- **Mr. S.Sathish**

Objectives of the Visit

The major objectives of the visit were:

- To bridge the gap between theoretical classroom learning and real-world biological research.
- To expose students to high-end instrumentation and core research facilities in molecular and cell biology.
- To provide direct interaction with leading scientists and researchers to understand career pathways in life sciences.

Visit Proceedings

The students were warmly welcomed by the scientists and technical staff of **CSIR-CCMB, Hyderabad**. An introductory session was conducted highlighting the history, achievements, and significant contributions of the institute towards modern biology, genetics, genomics, disease biology, and wildlife conservation.

The students were taken on a guided tour of various research laboratories and core facilities within the institute.

The scientists explained the functioning and applications of advanced instruments and model systems such as:

- **DNA Sequencers (Next-Generation Sequencing platforms)**
- **Real-Time Polymerase Chain Reaction (PCR) machines**
- **Confocal Laser Scanning Microscopes (Confocal LSM)**
- **Advanced Microscopy and Cell Sorting facilities**
- **Model organism facilities** (such as zebrafish and fruit-fly research labs)

The students gained insights into ongoing research projects related to molecular genetics, stem cell biology, ecology, evolution, and translational health research.

The interactive sessions with scientists and research scholars provided students with valuable information regarding research methodologies, scientific innovation, career opportunities in life sciences, and higher education prospects in premier research organizations.

Interactive Session

An engaging interactive session with researchers and principal investigators allowed students to clarify doubts regarding experimental methodologies, scientific integrity, intellectual property rights (IPR), and the scope of innovation in the biotech sector. Guidance was also provided on pursuing higher education (Ph.D. and integrated programs) and research careers in national and international institutions.

Learning Outcomes

The visit enabled students to:

- **Understand the role of CSIR-CCMB** in advancing frontier areas of modern biology and biotechnology.
- **Gain practical exposure** to advanced molecular biology tools, genetic analyzers, and high-end microscopy.
- **Appreciate the importance of research and innovation** in understanding cellular processes and tackling human health challenges.

- **Connect basic scientific discoveries** with real-world applications in medicine, agriculture, and wildlife conservation.
- **Develop curiosity** for higher studies and a long-term interest in scientific research.

Conclusion

The educational visit to **CSIR-Centre for Cellular & Molecular Biology (CCMB), Hyderabad**, provided IV Year B.Pharmacy students with an excellent opportunity to experience cutting-edge research facilities and interact with leading scientists. The visit significantly enhanced their understanding of pharmaceutical research, analytical instrumentation, and scientific innovation.

The School of Pharmacy expresses its sincere gratitude to the scientists and staff of CSIR-CCMB, Hyderabad, for providing valuable insights and facilitating an enriching learning experience for the students.



CSIR-Centre for Cellular & Molecular Biology (CCMB), Hyderabad

DEAN
NNR School of Pharmacy
Nalla Narasimha Reddy Education Society's
Group of Institutions
Chowdariguda, Korremula X Roads,
Ghatkesar Mandal, Medchal Dist-500 088

DEAN, SOP