

REPORT ON EDUCATIONAL VISIT TO CSIR–CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY (CCMB), 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 and Molecular Biology (CCMB), Hyderabad**, for **Final Year B.Pharmacy students** on **26th September 2025**. The visit was conducted with the objective of exposing students to advanced biological research, molecular biology techniques, and cutting-edge scientific innovations in life sciences and healthcare.

Objectives of the Visit

The objectives of the educational visit were:

- To provide practical exposure to modern biological and biomedical research.
- To familiarize students with advanced molecular biology and biotechnology techniques.
- To understand the role of CCMB in scientific research and innovation.
- To bridge the gap between classroom learning and research applications.
- To encourage students towards research careers and higher education opportunities.

Visit Proceedings

The visit commenced with an introductory session conducted by the scientists and research staff of CCMB. Students were briefed about the history, vision, and major contributions of the institute in the fields of molecular biology, genetics, biotechnology, genomics, and biomedical research.

During the visit, students toured various state-of-the-art research laboratories and facilities. The scientists explained ongoing research projects and demonstrated modern techniques used in biological and pharmaceutical research.

Students were introduced to several advanced areas of research, including:

- Molecular Biology

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- Cell Biology
- Genetics and Genomics
- Biotechnology
- Bioinformatics
- Drug Discovery and Development
- Biomedical Research

The participants also gained insights into sophisticated laboratory instruments and research methodologies employed in molecular and cellular studies. Scientists explained the significance of genetic analysis, DNA sequencing, protein characterization, and cellular investigations in understanding diseases and developing new therapeutic approaches.

The students actively interacted with researchers and scientists, who shared valuable information regarding research opportunities, career prospects, fellowships, internships, and higher studies in life sciences and pharmaceutical research.

Learning Outcomes

The visit enabled students to:

- Understand the importance of cellular and molecular biology in healthcare and pharmaceutical sciences.
- Gain exposure to advanced research laboratories and scientific instrumentation.
- Learn about modern biological research techniques and applications.
- Appreciate the role of research in drug discovery and disease management.
- Explore career opportunities in research institutions, biotechnology, and pharmaceutical industries.
- Develop interest in higher education and scientific innovation.

Conclusion

The educational visit to CSIR–Centre for Cellular and Molecular Biology (CCMB), Hyderabad, was highly informative and enriching for the Final Year B.Pharmacy students. The exposure to

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advanced research facilities and interaction with eminent scientists enhanced students' understanding of contemporary biological research and its applications in pharmaceutical sciences.

The School of Pharmacy expresses its sincere gratitude to the scientists and staff of CCMB for their valuable guidance and for providing students with an exceptional learning opportunity. The institution also appreciates the efforts of **Dr. A. Sahithi** for successfully coordinating and accompanying the students during the visit.



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