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Ashok Soota Molecular Medicine Facility opens at IIT Roorkee

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State-of-the-art facility to strengthen molecular diagnostics, precision medicine, and translational research



The Indian Institute of Technology Roorkee (IIT Roorkee) has inaugurated the Ashok Soota Molecular Medicine Facility at the Department of Biosciences and Bioengineering (BSBE), marking a significant step in strengthening advanced biomedical research infrastructure aligned with national healthcare priorities and global scientific advancements.

The facility was inaugurated by Ashok Soota, a distinguished Alumnus of IIT Roorkee in the presence of Prof. K. K. Pant, Director, IIT Roorkee, along with faculty members, researchers, and industry representatives.

Established as a state-of-the-art, integrated platform, the Ashok Soota Molecular Medicine Facility is designed to support drug discovery, biomolecular research, and the development of next-generation diagnostic tools.

The facility enables researchers to move from decoding disease mechanisms and identifying biomolecular targets to experimental validation of lead molecules and assay development. By integrating expertise in protein science, molecular and cell biology, structural biology, biophysics, analytical profiling, and advanced imaging, the facility will support high-impact research across critical disease domains, including cancer, neurological disorders, metabolic diseases, and infectious diseases.

The facility houses advanced instrumentation supporting end-to-end workflows in molecular characterisation and translational research, including Automated Protein Purification Systems (AKTA and Biorad/AKTA), HPLC and UPLC systems, GC-MS, Iso-Thermal Calorimeter (ITC), Flow Cytometer, Upright Confocal Microscope, Small-Angle X-ray Scattering (SAXS), Protein Crystallization Robot, CD Spectrometer, High Pressure Homogenizer/Cell Disruptor, and other high-precision analytical platforms.