

**Department of Biochemistry
All India Institute of Medical Sciences
New Delhi**

DST - Fund for Improvement in S & T Infrastructure

Brief Outline of the Department:

The department has 12 faculty members, 45 Ph.D students, 7 M.D. (2-3 per year), 3 M.Sc. (2-3 per year) students. Emphasis is both on teaching and research. Among the MBBS students 5 of our students have won KVPY fellowship sanctioned from DST. The research interest are broad based and cover a wide range of important multidisciplinary areas relevant to human health/diseases. In the year 2007-2008, 36 extramurally funded research projects were ongoing in the department and 35 papers have been published in indexed journals (Pubmed, Science Citation indexed journals). The recently opened advanced Molecular Medicine centre (funded by DST-FIST) is a landmark achievement for the department. It is providing an 'inhouse' platform accesible to all the students/ researchers/ faculty of the department / outside the department for doing high quality research work in key areas relevant to human health.

Teaching and Research Activities

Novel problem based teaching modules for MBBS, MD/ MSc, PhD and BSc nursing students are innovated and implemented periodically. In addition to our Ph.D research, our M.Sc and MD thesis are also of a very high standard. MBBS students are also exposed to research and do project work. Research is primarily targeted towards the molecular and clinical basis of several diseases like cancer, infectious diseases, autoimmune disorders and HIV. Major focus is on immunophenotyping / activated TB cell/ cytokine expression and immunomodulation studies in infectious diseases; Cell cycle analysis/ apoptosis signal transduction and drug resistance studies in multidisciplinary areas of basic cell biology and cancer; DNA microarray studies for gene profiling, mutation screening/ SNP analysis and DNA methylation studies of various diseases including malignancies.

Facilities Created

The DST-FIST funded Molecular Medicine facility created in the Biochemistry department includes the following instruments:

- i) Flowcytometer (B.D Facs Canto)
- ii) Microarray scanner (Genomic solution M/s DSS Image Tech. Pvt.)
- iii) Infra Red DNA visualiser (Licor Odessey system).



Flowcytometer (B.D. Facs Canto)



Microarray Scanner (Genomic Solution M/s DSS mage Tech Pvt)



Infra Red DNA visualiser (Licorr Odessey system)

For further details contact

Professor S. Sinha

Head

Department of Biochemistry

All India Institute of Medical Sciences, Ansari Nagar

New Delhi-110 029

Tel no. 26594483

Fax No. 26588663, 26588641

Email: sub_sinha@hotmail.com