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PT. B.D.SHARMA POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES, ROHTAK
DEPARTMENT OF BIOTECHNOLOGY & MOLECULAR MEDICINE

To
The Director
Pt. B.D. Sharma PGIMS, Rohtak.

BTMM/2022/144

Dated: 08.08.2022

Sub: Disclosure of information of the Department of Biotechnology & Molecular Medicine, PGIMS Rohtak under section 4 of RTI act 2005.

Respected Sir,

With reference of office order Endst No. SPIO/PGIMS/2022/6091-6113 dated 29.07.2022; please find enclosed the desired information as annexure-I for approval and necessary action.

Thanking You.

Sincerely,

Head
Department of Biotechnology &
Molecular Medicine

Approved

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Director

Annexure-1

1. About the Department

In view of its emerging significance and fast-growing applications in Medical Science, a dedicated Department of Biotechnology and Molecular Medicine was conceived to be established in the Post Graduate Institute of Medical Sciences Rohtak. The Department is aimed to be established as an interdisciplinary translational research, training and academic centre. The mission and mandate of the Department is to conduct cross disciplinary research, provide molecular genomic services and to impart education and training for augmenting diagnostic, clinical, therapeutic and surgical efforts in the interest of patient care. The Department is engaged in teaching of biotechnology and molecular medicine and has been actively collaborating with basic, preclinical, clinical and super-specialty Departments of PGIMS on various aspects of disease biology, molecular tools and therapeutic interventions.

2. Details of faculty members

Sr.No.	Name	Qualification	Designation	Lab
1.	Dr. Dhara B. Dhaulakhandi	Ph.D.	Assoc. Prof & Head	Regenerative Medicine
2.	Dr. Himanshu P. Raikwar	Ph.D.	Asstt. Prof.	Laboratory Medicine
3.	Dr. Deepak Kumar	Ph.D.	Asstt. Prof.	Molecular Diagnostics

3. Expertise

Department has technical expertise and capability for doing most of the modern molecular tests. Once the Laboratory Technician and Laboratory Attendants posts sanctioned for the department are filled department may offer molecular diagnosis for a range of diseases. The current thematic areas of research that department is involved include molecular profiling of brain tumors, Live Cell Imaging to study disease pathogenesis and Molecular investigations on congenital defects, genetic, infectious and rare diseases and development of the point of care diagnostics. Department is in process of setting up a Next Generation Sequencing (NGS) facility and a HLA typing and cross-matching facility for organ transplantation.

4. Teaching

- MBBS. Medical Molecular Biology/Medical Biotechnology
- B.Sc. Genetics (Nursing)
- M.Sc. Genetics (Advanced Nursing Practice)
- B.Sc. Medical Laboratory Technology
- Bachelor of Prosthetics & Orthotics (Research Methodology)
- M.D/M.S. Lectures in Molecular Medicine (need based)
- M.D./M.S. Dissertation (Interdisciplinary Departments)
- M.Sc./M.Tech (Biotechnology) dissertation of students from outside institutions
- Specialized Summer/Winter Schools

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5. Academic Programs in pipe line

M.Sc. Molecular Medicine & Biotechnology

Ph.D. Molecular Medicine

6. SOPs

Subject to availability of molecular biology trained technical manpower, the Department has well defined SOPs in place and expertise for carrying out various molecular and other (NGS/Transplant related) investigations.

Sr. No	Lab Investigation/Test	Sample	Method
1.	Genetic Tests	Blood in EDTA vial	End Point PCR, RFLP
2.	HLA typing and cross matching	Blood in EDTA & plain vial	Luminex, SSP
3.	NGS (Next Generation Sequencing)	Blood/Serum/Plasma/Swab	NGS

Head

Department of Biotechnology & Microbiology

PGIMS

ROHTAK