

# **DEPARTMENT OF BIOCHEMISTRY AT MMC**

## **INTRODUCTION:**

The department of Biochemistry besides the teaching and training of undergraduate MBBS students is also engaged in the academic and research activities of postgraduate students. The department is equipped with every possible modern amenity like fully automated Biochemistry Analyzer 'Beckman Coulter' (AU 480), UV Spectrophotometer, PSR Electrolyte Analyser, PSR ABG Assay Machine and skilled technicians.

The department is conducting some research projects. The Department has also started M.D. in Biochemistry in The Year 2012 and that now is recognised.

## **HEAD OF DEPARTMENT**



### **Dr. Imran Mustafa**

#### **Professor And Head, Department of Biochemistry**

Dr. Imran Mustafa is an MBBS from JN Medical College AMU Aligarh and has done his MD in Biochemistry from the same college.

His has researched and worked on topics such as the Field of Anti-DNA Antibodies in Diabetic Patients, Glycation of Human Placental DNA by Glucose and Fructose, Chronic Kidney Disease in Rural Population in Muzaffarnagar Region, the effect of Smoking on Microalbuminuria and other Kidney Functions in Normotensive Non-Diabetic Smokers and worked as Assistant Professor in Era's Lucknow Medical College for six months in 2011.

His publications are on Glycated human DNA is a preferred antigen for anti-DNA antibodies in diabetic patients (Elsevier-Diabetes Research and Clinical Practice), Comparative Study of Native and Fructose Glycated Human Placental DNA (IJBAR), Effect of Cigarette Smoking on Micro albuminuria and other Kidney Functions in Normotensive Non-Diabetic Smokers (IJCMR), chronic kidney disease among the rural population of Muzaffarnagar region (IJCBR). He also has his name in various other publications as a second author and/or subsequent author.

#### **Awards and achievements:**

- William Harvey research award for the publication in the journal Diabetes and Health.
- Around 50 research articles published in various journals and research papers

- 24x7 Diagnostic Services during the Corona Pandemic

### **VISION OF THE DEPARTMENT:**

We aim to provide world-class education, teaching, and training in the field of education and research.

### **MISSION OF THE DEPARTMENT:**

Our mission is to procure and provide online and offline teaching services and excellence in the subject related matters and Clinical Biochemistry for Graduate and Post Graduate students.

### **FACILITIES AND EQUIPMENT**

- 24x 7 Service for Blood and Fluid Parameters.
- Theory and Practical for Graduate and Post-Graduate Students.
- Departmental Library with 142 Books.

All The Blood and Fluid parameters are done in the Central Biochemistry Lab using Advanced Biochemistry Machines Like

1. Beckman-Coulter AU-480 Fully Automated Biochemistry Analyser
2. Beckman-Coulter Access-2 Chemiluminescence Analyser
3. PSR Electrolyte Analyser
4. PSR ABG Analyser

### **The practical offered in the student lab is through the following machines:**

Colorimeter, Spectrophotometer, Flame photometer, Agarose and Gel Electrophoresis, Serum and Protein Electrophoresis, ELISA Equipments, PCR (In collaboration with Microbiology department) and various other student related equipments and manuals

### **COURSES:**

Biochemistry for Undergraduate M.B.B.S. and M.D. in Biochemistry

### **POST-GRADUATE DEPARTMENT:**

The Department has all the required facilities for the Post-Graduate Studies has produced a total number of three Post-Graduate Students.

### **EFFORTS WORTH MENTIONING:**

The Faculty members are working meticulously to provide online and offline teaching and various part completion tests for students, providing round the clock emergency tests and in the research article publication work

Our faculty members and PGs are doing exceptional work; Dr. Manoj Tyagi is a Laboratory Consultant in the Health Department in Haryana, Dr. Shikha Rawat is an Assistant Professor at NCR College of Medical Sciences, Hapur. Dr. Manju Sharma is Assistant Professor here in MMC.

### **ACADEMIC ACTIVITIES:**

- Online and Offline teaching for graduate and post graduate students
- Departmental Seminars for Faculties and undergraduates
- Departmental Journal Club Discussions for Faculties
- Combined CMEs

### **PREPARATION FOR THIRD WAVE:**

Revamping the Diagnostics- Conducting tests like ABG, IL-6, D-Dimer, Procalcitonin and other advanced testes related to COVID-19.