

APPEAL TO FACULTY MEMBERS

Seth GS Medical College Multidisciplinary Research Unit (GSMC MRU) has been set up on the 1st and 2nd floor of Mortuary building with the financial aid from the Department of Health Research (DHR), under the Ministry of Health & Family Welfare, Government of India since 2015.

The GSMC MRU is a state of art laboratory facility with sophisticated equipment available to address various facets of medical research. The various facilities available are as follows:

1. Molecular biology:

- i. Gene expression studies
- ii. PCR based diagnosis
- iii. Protein and DNA electrophoresis
- iv. Protein estimations with western blotting
- v. RFLP experiments
- vi. Preparatory work for gene sequencing and other downstream applications.

2. Chromatography with Gas Chromatography Mass Spectrometry (GC-MS) & HPLC

- i. Estimation of VOCs and their metabolites
- ii. Amino acid and lipid profiling
- iii. Therapeutic drug monitoring (TDM)
- iv. Detection of certain biomarkers for disease diagnosis, screening for presence of narcotics, alcohol, solvents etc.
- v. Detection of drugs and their metabolites accurately at very low concentrations from the biological samples.

3. Biochemistry: Routine lab investigations viz. hematological and biochemical along with electrolytes,

4. Immunoassay: For assessment of biomarkers/hormones/cytokines etc. by **ELISA, CLIA.**

5. Supportive:

- i. Refrigerated centrifuges and Ultra centrifuges for separation of components of samples,
- ii. Bead beater for homogenization of samples
- iii. Millipore water filtration system for generation of Type I and II water
- iv. Biosafety labs with BSC class II B2 cabinets
- v. Fume hood for safe handling of fuming and organic reagents
- vi. Deep-freezers and ultra-freezers for preservation of samples

What is nature of support from GSMC MRU?

The research studies approved by the Local Research Advisory Committee (LRAC) of GSMC MRU, will be considered for support from GSMC with respect to the following:

- a. Infrastructure
- b. Scientific/Technical assistance
- c. Laboratory investigations (as per availability of infrastructure in MRU)
- d. Contingent expenditure (as decided by the LRAC)

Kindly note that outsourcing the investigations/procedures will not be supported if the infrastructure is available at GSMC MRU.

The projects for which you have already received part funding by the institution or any other sources can also be supported through GSMC MRU.

The complete list of equipment installed at GSMC MRU is available on webpage of institutional website www.kem.edu. The unit also has excellent team of qualified and experienced research scientists, who can guide in the selection of appropriate investigations and correct techniques to be used to address the research question.

It is well known that faculty members and postgraduates of our institution routinely carry out research. This is an opportunity to undertake more focused, collaborative research activities under the umbrella of GSMC MRU utilizing the state of art facilities to strengthen our research potential. Hence, we request all the faculty members to submit their research proposals to us.

What should be the nature of research projects?

The research proposals should be

1. Preferably in the area of non-communicable diseases
2. Multidisciplinary
3. Approved by the Institutional Ethics Committee
4. Having an impact on health care practices and various health indicators of the state
5. Designed so that one/more facility available in the GSMC MRU is utilized

When and where to submit?

The research proposal should be submitted by **15^h June 2025** in the format attached in the google forms link:

<https://docs.google.com/forms/d/e/1FAIpQLScsWL7trRul4M1SRIXINrLz3yc6Q5PpsRoVugNZ46dHCRhbw/viewform?usp=header>

What are the investigator's responsibilities? (Terms & Conditions)

- i. Execution of research projects as per mile stones given in the research proposal.
- ii. Co-operation to Nodal officer for smooth co-ordination to optimally utilize the staff & infrastructure of GSMC MRU.
- iii. Submission of short progress report on quarterly basis and detailed progress reports every six months and a final report on completion of the study in the requested formats.
- iv. Acknowledging GSMC MRU in publications/presentations/patents according to the format provided.

Contact details

Official address- Seth GS Medical College & KEM Hospital Multidisciplinary Research Unit (GSMC MRU), 2nd Floor, Mortuary Building, Parel, Mumbai-400012

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Extension: 7482, 7046, 7505

Email ID: gsmc.mru@gmail.com

Sd/-

Dr. Sandhya Kamat
Nodal Officer, GSMC MRU

Sd/-

Dr. Sangeeta Ravat
Dean (G&K)

Declaration and attestation

Project Title: -

We, the undersigned declare that the details mentioned in the application form are accurate and complete. We undertake that the necessary facilities available in our department will be provided for the implementation of this research proposal. We have read the terms and conditions of MRU scheme mentioned in the appeal and agree to abide the same.

Name and signature of PI

Date

Name and signature of all Co-Is

Date

Forwarded please

Name and signature of Head of Departments (of all investigators)

Department

Date