

## **APPEAL TO FACULTY MEMBERS**

Seth GS Medical College & KEM Hospital has been selected by the Department of Health Research (DHR), a department of the Ministry of Health & Family Welfare to establish Multi-Disciplinary Research Units (MRUs) to conduct research in the field of non-communicable diseases. The objectives of the said scheme are to:

1. Encourage and strengthen an environment of research in medical colleges.
2. Bridge the gap in the infrastructure which is inhibiting health research in the Medical Colleges
3. To create evidence-based application of diagnostic procedures/processes/methods so as to improve the overall health status of the community

Various committees such as local advisory Committee (LAC), Research advisory Committee (RAC), Purchase Committee, Renovation Committee and Project Initiation Implementation & Management committee (PIIMC) have been functioning since last one year to establish guidelines and smooth coordination of MRU activities.

The research laboratories located on first and second floor of Mortuary Building as MRU. About 30 equipment have been already purchased and commissioned in Phase I & II and few more equipment have been planned to be acquired at end of phase III. The list of the equipment available in the MRU premises is given at the end of this circular.

It is well known that faculty members and postgraduates of our institution conduct and publish good research work. It is an opportunity now to undertake more focused, collaborative research activities under the umbrella of GSMC-MRU utilizing the state of art facilities created from DHR grant to strengthen our research potential. Hence we request all the faculty members to submit the research proposals to us.

### **What should be the nature of research projects?**

The research proposals should be:

1. addressing to a research problem in the area of non-communicable diseases
2. multidisciplinary
3. approved by the Institutional ethical committee
4. Basic/Applied/Clinical Research
5. able to have impact on health care practices and various health indicators of the state

The projects for which you have received part funding by the institution or any other sources can be supported through MRU. Even the dissertation of the postgraduate students can be submitted if they are meeting the above criteria.

**When and where to submit?**

The research proposal should be submitted by 31<sup>st</sup> January 2018 in the office of Seth GS Medical College & KEM Hospital Multi-Disciplinary Research Unit (GSMC-MRU), 2<sup>nd</sup> Floor Mortuary Building (Contact Extns.: 7482, 7046, 7089; Email ID: gsmc.mru@gmail.com) in a format (available on MRU webpage), along with the final protocol approved by Institutional ethical committee and a copy of EC approval.

A copy of the proposal in pdf format (not exceeding 25MB memory) has to be submitted in a CD along with the hard copy as well. The projects will be reviewed by the Research Advisory Committee of the institution consisting both external, internal members and DHR representatives who will give final decision.

**What will be the benefits?**

- a. Funding is available for consumables (total amount: for 1 year)
- b. Technical assistance
- c. Infrastructure

**What are the investigator's responsibilities?**

- i. execution of research projects as per mile stones given in the research proposal
- ii. Co-operation to nodal officer in smooth co-ordination to utilize the staff & infrastructure of GSMC-MRU optimally.
- iii. submission of progress reports every six months and final report on completion of the study
- iv. acknowledging GSMC-MRU in publications/presentations /patents

**Dr. Avinash N. Supe**  
Director (ME&MH) and  
Dean (G&K)

**Dr. N.N. Rege**  
Nodal Officer  
Seth GSMC-MRU

## Equipment Available

### A. Seth GS Medical College Central Research Lab

**Location:** Seth GS Medical College Multidisciplinary Research Unit  
2<sup>nd</sup> Floor, Mortuary Building, KEM Hospital Parel, Mumbai

**Sections/Labs**

- 1. Molecular biology laboratory**
- 2. Biochemistry laboratory**
- 3. Immuno assay Laboratory**

#### Equipment:

<b>Sr. No.</b>	<b>Name of the Equipment</b>	<b>Sr. No.</b>	<b>Name of the Equipment</b>
1	Auto analyzer Biochemistry	16	Microscope (Binocular-light)
2	Biosafety Cabinet	17	Microwave oven
3	Electronic weighing balance	18	Multichannel micropipettes (variable, Autoclavable)
4	Electrophoresis (Horizontal, vertical, western)	19	pH meter Electronic
5	ELISA Reader	20	Real Time PCR system
6	ELISA Washer	21	Refrigerator Laboratory
7	Freezer -30 degree	22	Spectrophotometer (Nano drop)
8	Freezer -70 degree	23	Table top non refrigerated centrifuge
9	Gel documentation system	24	Table top refrigerated centrifuge
10	Hot air oven	25	Thermal cycler
11	Ice flaking machine	26	Vortex mixer
12	Incubator	27	Water bath
13	Liquid N2 tank	28	Water purification system
14	Magnetic Stirrer	29	Gas Chromatography–Mass Spectrometry system
15	Micropipettes sets	30	High Performance Liquid Chromatography system

## B. Pharmacology Research Laboratories

**Location:** Seth GS Medical College Multidisciplinary Research Unit  
2<sup>nd</sup> Floor, Mortuary Building, KEM Hospital Parel, Mumbai

**Sections/Labs**

1. Experimental Pharmacology laboratory
2. Pharmacology Research Laboratory -1
3. Pharmacology Research Laboratory -2
4. Tissue culture Laboratory

Sr. No.	Name of the Equipment	Sr. No.	Name of the Equipment
1	Platelet Aggregometer (Optical +Impedance )	15	Micropipettes sets
2	Trinocular Fluorescent Microscope with Image analyzer system	16	Magnetic Stirrer
3	Automated Hematology Analyzer (Three part) with human + veterinary modes	17	Homogenizer
4	Binocular Microscope	18	Multichannel micropipettes (variable, Autoclavable)
5	Stereo Microscope	19	pH meter
6	Inverted Microscope	20	Monopan weighing balance Electronic
7	Carbon dioxide Incubator	21	High performance Thin layer chromatography system (HPTLC)
8	Laminar flow	22	Spectrophotometer
9	Semi- automated Biochemistry Analyzer	23	Table top non refrigerated centrifuge
10	Hot air oven	24	Table top refrigerated centrifuge
11	Incubators	25	Nitrogen Evaporator
12	Autoclaves	26	Vortex mixer
13	ELISA Reader	27	Water bath
14	ELISA washer	28	Ultra Sonicator
		29	Urine Analyzer