



IGMC Shimla

PROVIDING STATE OF THE ART,
teaching, training and patient care

सर्वमे भवन्तु सुखिनः । सर्वमे भवन्तु निरागमाः ।

Multi Disciplinary Research Unit

(Under the Department of Health Research,
Government of India & ICMR, New Delhi)

INTRODUCTION

The Department of Health Research was created as a new Department under the Ministry of Health & Family Welfare vide Presidential Notification dated the 17th September, 2007 by an amendment to the Government of India (Allocation of Business) Rules, 1961. The Department has been allocated 9 new functions to promote health research activities, besides the ongoing work relating to the management and administration of ICMR.

Government of India, in June, 2013, vide sanction order at approved the scheme for 'Establishment of Multi - Disciplinary Research Units (MRUs) in the Government Medical Colleges/Research Institutions' during the 12th plan period as a path- breaking initiative to develop/strengthen the health research infrastructure in the country to fulfill the newly allocated function of the Department related to the "Promotion, Coordination and Development of Basic, Applied and Clinical Research".

OBJECTIVE OF THE SCHEME:

The objectives of the present 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 by assisting them to establish multidisciplinary research facilities with a view to improving the health research and health services.
3. To ensure the geographical spread of health research infrastructure, in order to cover un-served and under-served Medical Colleges and other institutions.
4. To improve the overall health status of the population by creating evidence-based application of diagnostic procedures/processes/methods

MAJOR FUNCTIONS OF THE MRU

1. To undertake research in **non-communicable diseases** and other need-based research as recommended by the Local Research Committee/Expert Committee of the DHR employing newer tools.
2. To promote and encourage quality medical research in the Institution.
3. To constitute the local research committees for identifying the research priorities and projects with participation of State health system officials

MRU IGMC will try to provide the highest level of patient related health research and help to bridge the barriers in diagnosis and treatment.

ORGANISATIONS:

Administrator Dr. Rajneesh Pathania (Principal, IGMC Shimla)

Nodal Officer: Dr. PC Negi (Prof. & Head Department of Cardiology)

Lab In charge: Dr Sudarshan K Sharma (Prof. Department of pathology)

Dr. Neelam Sharma (Prof. Department of pathology)

Local Research Advisory Committee members

	Name	Designation	Email	
1	Dr. JS Thakur	Chairperson	jsthakur64@gmail.com	Department of School and Public health PGIMER Chandigarh
2	Dr. Madhu Khullar	Co-Chairperson	madhukhullar@gmail.com	Department of Experimental Biotechnology PGIMER Chandigarh
3	Dr. PC Negi	Member secretary-nodal officer MRU-IGMC	Negiprakash59@gmail.com	Prof.&Head Department of cardiology IGMC Shimla
4	Dr. Ashu grover	Nominee (ICMR)	grovera@gmail.com	Scientist E, ICMR Delhi
5	Dr. Biman saikia	Clinical/academician-external	bimansiakia@gmail.com	Department of immunopathology PGIMER Chandigarh
6	Dr. Balbir Verma	Clinical/academician-internal	drbsv2000@yahoo.com	Department of Medicine IGMC Shimla
7	Dr. Puneet Mahajan	Clinical/academician-internal	Puneetdr1@gmail.com	Department of Surgery IGMC Shimla
8	Dr.Ramesh Chand	Nominee(state health Dwpartment)		Department of Medical Education & Health Shimla

LRAC MEETING EVENTS

1ST LRAC -24 JAN 2017

2nd LRAC – 11 SEPT 2017

3RD LRAC- 7 DEC 2018s

4TH LRAC -14TH MARCH 2020

Research

Ongoing projects (Approved by DHR)

Sr. No	Project Title	Investigator's	FUNDING SOURCE	Date of approval	PUBLICATION	status
1	Role of elevated levels of omega 6:omega 3PUFA ratio and Vit. D deficiency in obese metabolic syndrome; worksite based cross sectional study	Dr. PC Negi (PI) Prof.& Head Department of Cardiology IGMC Shimla Co-PI's Dr. Lakshmy Ramakrishnan Professor Cardiac Biochemistry AIIMS New Delhi Dr. Sanjeev Asotra, Assistant Prof Cardiology IGMC Shimla Dr. Rajeev Merwaha Assistant Prof Cardiology, IGMC Shimla Dr. Sunita Assistant Prof Biochemistry, IGMC Shimla Dr. Archana Gulati Assitant Professor Pathology IGMC Shimla	MRU	May 2015	ONE	Ongoing
2	Identification and characterization of putative target valvular antigen as the marker of susceptibility of RF	Dr. PC Negi (PI) Prof.& Head Department of Cardiology IGMC Shimla Co-PI's Dr. Rajneesh Pathania, Prof and Head Department of Cardiothoracic Surgery IGMC Shimla Dr. Arvind Bhatt Associate Prof. Department of Biotechnology HP University Shimla.	MRU	March 2020	na	Ongoing

		<p>Dr. T.P.Singh Prof and Head Department of Biophysics AIIMS New Delhi</p> <p>Dr. Sanjeev Asotra Assistant Prof Cardiology IGMC Shimla HP</p> <p>Dr. Neelam Grover Prof and Head Department of Pediatrics IGMC Shimla.</p> <p>Dr. Piyush Kapila Assist. Prof Department of Forensic Medicine IGMC Shimla</p> <p>Dr. Archana Gulati Assitant Professor Pathology IGMC Shimla</p>				
3	<p>Role of sRAGE and oxidative stress as the prognostic markers in acute coronary syndrome</p>	<p>Dr. Neeraj Ganju Department of Cardiology, IGMC, Shimla</p> <p>Dr. PC Negi Professor & Head, Department of Cardiology, IGMC, Shimla,</p> <p>Dr. Kunal Mahajan Assit. Prof. Department of Cardiology, IGMC Shimla</p> <p>Dr. Meenakshi Chandel Research Scientist II, MRU IGMC Shimla</p>	<p>State intra-mural grant</p>	<p>24 Jan 2017</p>	<p>na</p>	<p>Ongoing</p>
4	<p>Role of plasma level of s-RAGE in COPD patients-a hospital-based case-control study</p>	<p>Dr. Malay Sarkar Prof.& Head Pulmonary Department of IGMC Shimla</p> <p>Dr. P.C. Negi, Professor & Head, Department of Cardiology, IGMC, Shimla,</p> <p>negiprakash59@gmail.com</p>	<p>State intra-mural grant</p>	<p>24 Jan 2017</p>	<p>na</p>	<p>completed</p>

		<p>Harish Changotra, Ph.D.(Associate Professor), Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology, Wagnaghat, Solan, hchangotra@yahoo.com</p> <p>Dr. Bhupinder Kumar, Senior resident, Department of Medicine, IGMC, Shimla, drbhupinder79@gmail.com</p> <p>Dr. Meenkashi Chandel, Research Scientist II, MRU IGMC Shimla</p>				
5	Impact of school health on behavioral intervention on awareness, practice pattern of health life style and cardio metabolic risk factor among school children of shimla	Dr anjali Mahajan Assoc. proff., community medicine	DHR , MoH&F W, New Delhi	2016	Under review	Completed
6	Deficiency of G6PD in children of Indira Gandhi Medical College and Hospital	Dr. Shyam Kaushik	State intra- mural grant	2017	-	Completed

7	A case control study of co-existence of metabolic syndrome and COPD in Himachal Pradesh	Dr anjali Mahajan Assoc. proff., community medicine	State intramural grant	2019		Commence shortly
8	To study the prevalence of osteoporosis in stable patients of chronic obstructive pulmonary disease	Dr Malay Sarker Proff. and Head , Pulmonary medicine	State intramural grant	-	-	Commence shortly

Projects approved by 4TH Local RAC under MRU-IGMC scheme (14th march 2020)

1	Enumeration and characterization of flow-cytometric immunophenotyping of circulating plasma cells and their role in post treatment monitoring (MDR assessment) in patients of multiple myeloma and other plasma cell disorders in a hilly state of H.P	Dr. Pooja Murgai Department of Pathology IGMC Shimla Co-Investigator(s) : 1. Dr. Neelam Varma ,Prof. and Head, Dept. of Hematology, PGIMER, Chandigarh Email – varmaneelam@yahoo.com 2. Dr. Vijay Kaushal, Professor & Head Dept of Pathology . IGMC, Shimla. Email – drkaushalvijay@gmail.com 3. Dr. Sudarshan K.Sharma, Professor, Dept. of Pathology, IGMC, Shimla. Email – sks995@gmail.com 4. Dr. Rajeev Seam, Prof and Head, Dept. of Radiotherapy, IGMC, Shimla. Email – rajeevseam@yahoo.com 5. Dr. Shayam Kaushik, Professor, Dept.	24 Jan 2017
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		<p>of Pediatrics, IGMC, Shimla. Email = Shayam.kaushik@live.in</p> <p>6. Dr Rajesh Kashyap, Professor, Dept of Medicine, IGM, Shimla. Email - krajesh_shimla@yahoo.com</p> <p>7. Dr. Anchana Gulati, Associate Professor, Dept. of Pathology, IGMC, Shimla. Email- anchanagulati@gmail.com</p>	
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Divisions and Facilities

Staff

The following personnel are employed on a contractual basis as per the MRU establishment guidelines:

- Research Scientist II: Dr. Meenakshi Chandel (Ph.D).
- Research Scientist I: Dr. ChanderKant Sharma(Ph.D).
- Laboratory technicians: Ms Shivangi Sharma (B.Sc. MLT)
- Laboratory technician: Ms. Isha Chauhan (B.Sc. MLT)
- Laboratory assistant: Mr. Dinesh Kumar (B.Sc. MLT)

Research Facilities

The Research Unit at IGMC Shimla has dedicated working areas and is in the process of procuring project need based equipments which would help in achieving the objectivesl of MRU.. The laboratory is currently being used for conducting research in the field of non communicable diseases. It supports both intramural and

extramural projects carried out under different clinical researchers/faculty of the institute. Moreover, the laboratory facilities are also being used by Post-graduate students for carrying out their thesis related work.

Equipments available in MRU IGMC Shimla

Sr. No.	Name of Equipment	Quantity
1	Fluorescent Microscope	1
2	Centrifuge 3000RPM (Rotor 26x15 ml)	1
3	Centrifuge 4000RPM (Rotor 26x15 ml)	1
4	Refrigerated Microfuge	1
5	Minus 20 degree freezer	2
6	Minus 80 degree Freeze	2
7	Blood Chemistry Auto Analyze	1
8	Mini Cold Lab	1
9	Embedding Station	1
10	Manual Rotary Microtome Make: LEICA	1
11	Cryostat Microtome	1
12	Trinocular Microscope	1
13	Tissue processor with accessories	1
14	Ultra sonicator with accessories and Tissue Homogenizer	1
15	Autopipets (1ml,200 μ l, 1,100 μ l, 1,20 μ l)	1
16	Spectrophotometer	1
17	Digital Magnetic stirrer With hot plate	2
18	Digital Magnetic stirrer without hotplate	1
19	Weighing machine	1
20	Liquid Nitrogen container	1
21	Multichannel pipette set	2
22	Spinix Vortex shaker	3
23	Microplate reader(Elisa reader)	1
24	Ice flaking machine	1
25	Universal Hot air oven	1
26	Serve voltage stabilizer	1
27	Water bath with circulator	1
28	pH mete	1
29	2D electrophoresis with accessories a. Protean i12 IEF system b. I12 sample cup holder c. Mini tera cell d. Protean 11 X L large system e. Power point universal f. Ready prep 2D cleanup kit g. Protean 11 X1 and XL h. Protean 11 X1 & X1L i. 15 well comb teflon j. Transblot turbo k. Mini transblot cell	1

	l. Power pac basic power supply m. PD Quest basic software n. Chemi doc MP imaging system o. White sample tray for chemi Doc MP p .Computer with accesories q. Gel rocker	
30	Bioplex 200 system a .bioplex 200 system with accessories b. bioplex hand held magnetic P	1
31	Desktop computers HP 280	1
32	Hp laptop	1

Equipment in the process of procurement for the approved project : Flow cytometer

Dr. PC Negi

Prof.&Head Department of Cardiology-cum Nodal Officer MRU

IGMC Shimla