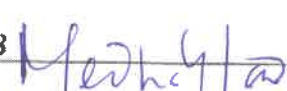
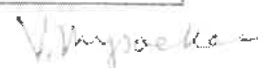


CENTRAL RESEARCH LABORATORY

Area in square feet	7000 square feet
Facilities Available	- Dedicated facility for proteomics research on Immunohistochemistry, Immunofluorescence, FISH, Cytogenetics, Microscopy and Electrophoresis. - Genetics research facility with DNA qualitative and quantitative analysis. - Advanced cell and tissue culture facility with biosafety cabinet, biological incubator and other related facility. - Basic biochemical analysis facility with deep freezer and cold storage facility. - Microscopy facility for imaging and molecular studies (including fluorescence microscopy). - Analytical facility with spectrophotometry and High Performance Liquid Chromatography. - Phytochemicals/ chemical extraction facility. - qPCR facility, - Multifunction plate reader (UV-Visible, fluorescence, ELISA, Chemiluminescence), - Cryopreservation facility.
Equipments Available	Separate list provided
Teaching Learning facility	
Total Number of Students posted – UG from 2015 to 2019	2015: 1 MBBS student 2016: 1 MBBS student 2017: 27 interns 2018: 161 interns + 1 MBBS student = 162 2019: 170 interns Total: 361 Interns are posted to Central Research Laboratory for 1 day as part of the Clinical Laboratory posting.
Total Number of Students posted – PG 2015 to 2019	2015: 8 from RMC 2016: 7 from RMC 2017: 5 from RMC 2018: 3 from RMC 2019: 5 from RMC Total: 28


PRINCIPAL AND DEAN,
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.


V. Mysore

Documentation proof of posting	Included
*Number of workshops conducted – in collaboration with RMC & Department of Physiotherapy	Two
Student Research projects	Total: 55; From RMC: 31
Faculty Research projects	8
Type of support provided to strengthen the research culture by CRL	Equipment, technical support and help in interpretation of results are provided by CRL.
Any other best practices in CRL that can be projected	Students perform experiments themselves, under the guidance of the technical experts. Thus they get hands-on experience in laboratory work.

***Kindly note: For the number of workshops conducted at CRL, kindly furnish the details in the form of a list in below mentioned format from 2015 – 2019 for each year separately**

Sl No	Name of the workshop	Dates	Number of participants	Organiser
1.	Genetic counselling training with special emphasis on prenatal, postnatal diagnosis and reproductive genetics	6 th to 22 nd February 2018	20	Dr. Angel Beula P. R., Senior Scientist, Central Research Laboratory Dr. Vijaya V. Mysorekar, Professor of Pathology and In-charge, Central Research Laboratory
2.	Advanced Analytical Techniques for monitoring recombinant and other drug /products for quality health care	5 th to 23 rd March 2018	17	Dr. K. N. Chidambara Murthy, Principal Scientist, Central Research Laboratory

Medha Yadav
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

V. Jayaprakash
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

TEACHING – LEARNING ACTIVITIES - CRL

	2019	2018	2017	2016	2015
Number of Students posted – UG	170	162	27	1	1
Number of Students posted – PG	8	7	5	3	5
Duration of posting	1 day to 1 month	1 day to 1 month	1 day to 1 month	1 month	1 month
Objective of posting	Interns' orientation or Research project	Interns' orientation or Research project	Interns' orientation or Research project	Research project	Research project
Documentation proof of posting	Yes	Yes	Yes	Yes	Yes
Research projects if any in collaboration with CRL	As above	As above	As above	As above	As above

- ✓ Posting schedule – Interns' orientation schedule
- ✓ Letter of intimation sent to CRL – for research projects
- ✓ Attendance proof for 5 years - interns / research
- ✓ List of activities/ research undertaken in collaboration with CRL – List is provided


M. S. Ramaiah
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

LIST OF EQUIPMENT IN CRL

SL No	Name of Equipment	Make of Equipment	No	Year of Purchase	Cost of equipment
01	Refrigerator	LG	1	2018	25,000:00
02	Refrigerator	SAMSUNG	1	2006	20,000:00
03	Refrigerator	BLUE STAR	1	2006	20,000:00
04	Deep freezer -20 Degree	SIEMENS	1	2010	3,00,000:00
05	Digital Weighing Balance	M.R.C. BAA-600	1	2006	21,500:00
06	Digital Weighing Balance	SHIMADZU	1	2010	89,000:00
07	Incubator 37 Degree	JUBLEE	1	2014	30,000:00
08	Ph meter with electrode	SYSTRONICS	2	2015/ 2019	50,000:00
09	Microwave oven 21 Lts	SAMSUNG	1	2015	30,000:00
10	Microwave oven 21 Lts	LG	1	2019	30,000:00
11	Slide warmer		1	2006	3,000:00
12	Binocular Microscope	LABOMED	1		10,000:00
13	Cold microcentrifuge	REMI CM 12 Plus	1	2020	1,26,000:00
14	Centrifuge	REMI R4C	2	2006	10,000:00
15	Hot Air Oven	M.R.C. LTD	1		12,000:00
16	Cyclomixer	REMI CM 101	2	2020	5,000:00
17	Rotary Shaker	REMI RS 12	2	2020	43,000:00
18	Laminar Flow	ALPHA LINEAR	1	2006	1,10,000:00
19	Incubator 37 Degree	M.R.C.LTD	1	2006	30,000:00
20	Inverted Microscope	OLYMPUS	1	2010	1,57,000:00
21	CO2 incubator 37 degree	NUAIRE	1	2010	3,50,000:00
22	Vacuum Pump	MILLIPORE	1	2006	50,000:00
23	Gel Electrophoresis, Gel Dryer with accessories	SEBIA K20/ MG300	1	2008	2,78,000:00
24	Elisa Strip reader with Matrix CVT stabilizer	CPC STAT FAX	1	2008	1,05,000:00
25	Vortex shaker	TORSONS	1	2020	10,500:00
26	Cyclomixer		1	2006	6,800:00
27	Capillary Electrophoresis, Desk top with printer	SEBIA MINICAP	1	2020	17,40,500:00
28	Hot Air Oven	APOLLO	1	2015	10,000:00
29	Water Bath 18 Lts	KEMI	1	2020	20,000:00
30	Semi Auto Analyser	NEXT GEN SPAN	1	2009	1,00,000:00
31	Semi Auto Analyser	TRANSASIA ERBA CHEM -7	1	2020	1,85,000:00
32	Scanner	EPSON V700 Photo	1	2008	8,000:00
33	Fluorescent, Light, Polarizer Microscope with camera, desktop, & printer	OLYMPUS CX41 EPSON L 455	1	2012	9,00,000:00
34	Microscope with camera & desktop with software	OLYMPUS BX51	1	2006	11,00,000:00
35	Gamma Counter	IC 4702 A	1	2006	15,000:00
36	Magnetic stirrer	REMI	1	2009	5,000:00
37	Single Gas Stove Burner with Gas cylinder	PRESTIGE	1	2006	3,500:00


PRINCIPAL AND DEAN
 M.S.Ramaiah Medical College
 & Hospital,
 Bangalore - 560 054.

LIST OF EQUIPMENT IN CRL

38	Cooker 25 Lts	PRESTIGE	1	2006	2,000:00
39	DNA Extraction Qubit TM4	THERMOFISHER	1	2020	2,50,000:00
40	Fully Motorized Upright Fluorescence microscope with camera, soft ware, FISH & Karyotyping	CARL ZEISS	1	2020	37,08,300:00
41	Hybridization system	META SYSTEMS	1	2020	2,84,000:00
42	Hot Plate steel top	Vasa scientific	1	2020	23,000:00
43	Weighing Balance	Vasa Scientific	1	2020	23,000:00
44	Freezer - 80 Degree	THERMO SCIENTIFIC		2020	6,50,000:00
45	Multi Mode Reader	SPINCO BIOTECH	1	2020	17,65,000:00
46	96 Well Plate Centrifuge		1	2020	3,99,900:00
47	Multi Channel Pipettes 5-50ul	THERMO SCIENTIFIC	1	2020	30,000:00
48	Multi Channel Pipettes 10-100ul	THERMO SCIENTIFIC	1	2020	30,000:00
49	Multi Channel Pipettes 30-300ul	THERMO SCIENTIFIC	1	2020	30,000:00
50	Precision Micropipettes	THERMO SCIENTIFIC	4	2010	24,000:00
51	CO2 Incubator	GALAXY 170S	1	2014	2,20,000:00
52	Laminar flow	ASPIRE	2	2009	2,00,000
53	R.T. PCR Quant studio -3	THERMOFISHER	1	2020	11,75,000:00
54	PCR System 9700 Gene Amp	THERMOFISHER	1	2009	5,00,000
55	CO2 incubator 37 degree	NUAIRE	1	2013	2,20,000:00
56	Spectrophotometer		1	2013	4,40,000

V. Mysaackar

M. S. Ramaiah Medical College
Principal and Dean
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

**RESEARCH PROJECTS DONE IN COLLABORATION WITH THE CENTRAL
RESEARCH LABORATORY (CRL), RAMAIAH MEDICAL COLLEGE FROM
2015 TO 2019**

2015

Sl. No.	Title of project / Test done	Investigators	Designation	Institution	Date
1	Histopathology studies on avascular necrosis and control bone	Dr. S. Venketesh Dr. Vijaya Mysorekar	Faculty	Sri Sathya Sai Institute of higher learning, M.S Ramaiah Medical College	29/01/15
2	Detection of salivary nicotine level in tobacco users	Dr. Nidhi Chugh	MDS student	M.S Ramaiah Dental College	15/04/15
3	Project work	Mr. Varun	12 th std Student	12 th std Student NAVKIS	4/5/15
4	Project Work	Mr. Vignesh	II PUC student	II PUC student NAVKIS	4/5/15
5	Expression of CK8 in oral submucous fibrosis by IHC	Dr. Jyothsna Vaikunthe	MDS student	S.D.M. Dental college Dharwad	18/05/15
6	Processing of dissertation samples for the parameters - Insulin and TNF- α	Dr. Lakshmi D	PG in Biochemistry	M.S Ramaiah Medical College	2/04/15
7	Processing of dissertation samples for the parameters - Vitamin D and Anti TPO	Dr. Ritu Priya	PG in Biochemistry	M.S Ramaiah Medical College	2/04/15
8	Processing of dissertation samples - Osteocalcin by ELISA	Dr. Navikala K	PG in Biochemistry	M.S Ramaiah Medical College	12/03/15
9	Processing of dissertation samples for parameter SAA (serum amyloid A)	Dr. P Krishnaveni	PG in Biochemistry	M.S Ramaiah Medical College	2/05/15
10	School Project	Ms Moksha	12 th std student	12 th std student N.P.S - R	20/05/15
11	Study on collagen in transversalis fascia in hernia	Dr. Sam Koruth	PG in General Surgery	M.S Ramaiah Medical College	28/05/15
12	Project work	Mrs. Keerthi	M Tech student	M.Tech student MSRIT	29/06/15
13	Project work	Ms. Keetha Mani	M Tech student	M.Tech student MSRIT	30/06/15
14	Preliminary screening for oral cancer cells	Dr. Dominic	MDS student	MSR Dental college	03/07/15
15	Bcl2 expression in premalignant lesions of cervical cancer	Shrudevi R Kamaraddi	UG 7 th term MBBS student	M.S Ramaiah Medical College	23/09/15
16	IHC Study of marker p63	Dr. Aneesha Asok Kumar	PG in Pathology	M.S Ramaiah Medical College	25/08/15
17	Prealbumin estimation in serum of patients undergoing surgery	Dr. Raju BR	PG in General Surgery	M.S Ramaiah Medical College	4/08/15
18	Processing of samples for the Prolactin by Elisa method	Dr. Lakshmi D	PG in Biochemistry	M.S Ramaiah Medical College	30/09/15

M/SLG/20
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

2016

Sl. No.	Title of project / Test done	Investigators	Designation	Institution	Date
19	Processing of samples for study of serum adiponectin by elisa method	Dr. Abhijit B	Senior Resident in Endocrinology	M.S Ramaiah Medical College	29/01/16
20	Possible mode of colon cancer proliferation inhibition by phytochemicals of <i>Simarouba glauca</i>	Mr. Nagendra P Mr. Bharath Kumar Reddy B Mr. Harish Kumar	M Tech student	M.S Ramaiah Institute of Technology	22/01/16
21	Biofilm Quantification	Ms Chaithanya P	M Tech student	M.S Ramaiah Institute of Technology	28/03/16
22	Serum TSH levels in Dyslipidemic individuals	Dr. Ritu Priya	PG in Biochemistry	M.S Ramaiah Medical College	4/04/16
23	Processing of dissertation sample for parameters Urinary NGAL and Urinary transferrin	Dr. Pavana A	PG in Biochemistry	M.S Ramaiah Medical College	7/05/2016
24	Spectrophotometer reading for recycle and reuse of dye effluent	Kiran Kumar	M Tech student	M.S Ramaiah Institute of Technology	10/05/16
25	Processing of dissertation samples for parameters Anti-TG and TSH in Type 2 DM	Dr. B Pallavi	PG in Biochemistry	M.S Ramaiah Medical College	21/06/16
26	P53 immunoeexpression in non-neoplastic and neoplastic epithelial lesions of cervix	Dr. Divya B	PG in Obstetrics and Gynecology	M.S Ramaiah Medical College	24/06/16
27	Detection of vitamin D binding protein using ELISA	Dr. Sheetal Jadhav	MDS student	M.S Ramaiah Dental College	7/07/16
28	Processing of serum samples for the parameter NGAL	Swetha Subharaj	UG 9 th term MBBS student	M.S Ramaiah Medical College	22/07/16
29	Processing of plasma samples for the parameter D-dimer	Dr. Kartik	Intern	M.S Ramaiah Medical College	22/07/16
30	UV Spectrophotometer for project on biofilm formation	Dr. Amrita Pattanaik	PG in Microbiology	MSRTH	27/07/16
31	ELISA for dissertation on inflammatory biomarkers in chronic kidney disease	Dr. Rima	MDS student	M.S Ramaiah Dental college	16/09/16
32	Sarhlet extraction anti-oxidant screening	Mr. Bharath Kumar Reddy	M Tech student	M.S.R.I.T	07/09/16
33	Storage & processing of blood samples for effect of metformin therapy on TSH levels in women with PCOS	Dr. Vinay Kumar D	Senior Resident in Endocrinology	M.S Ramaiah Medical College	19/08/16
34	Soxhlet extraction, antioxidant screening, cytotoxicity assay, DNA fragmentation assay, microscopic study of treated cells	Alice Hepsiba S	M Tech student	M.S Ramaiah Institute of Technology	26/08/16
35	Processing of samples for parameter oxidized LDL	Dr. B Pallavi	PG in Biochemistry	M.S Ramaiah Medical College	30/08/16

Medha 9/20
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

36	In vitro study of effect of surface treatment with varying particle size of alumina on retention of glass fiber post	Dr. Rudrax Jindal	M Tech student	M.S Ramaiah University of Applied Sciences	31/08/16
37	Insulin resistance in different grades of acanthosis nigricans	Dr. Sudha Banti	PG in Dermatology	M.S Ramaiah Medical College	14/9/16

2017

Sl. No.	Title of project / Test done	Investigators	Designation	Institution	Date
38	S100b protein levels in acute stroke patients by ELISA test	Dr. Kiran B	Senior Resident in Neurology	M.S Ramaiah Medical College	11/04/17
39	Renal function in primary hypothyroidism - samples for Cystatin C	Dr. Sumana K	Senior Resident in Endocrinology	M.S Ramaiah Medical College	11/05/17
40	Separation of DNA from stool sample and buccal swab	Dr. G. G. Gangadharan	Faculty	M.S Ramaiah Indic Centre for Ayurveda & Integrative Medicine	17/03/17
41	Final year B.E project	Ms. Swarna S Ms. Ramya L	M Tech student	M.S Ramaiah Institute of Technology	22/01/16
42	Estimation of Opiorphin, endogenous opioid present in saliva by Elisa method	Dr. Priyasharshini R	MDS student	M.S. Ramaiah Dental College	25/03/17
43	Effects of lifestyle modification on serum myostatin levels	Dr. Pavana A	PG in Biochemistry	M.S. Ramaiah Medical College	05/05/17
44	Relevance of serum VEGF and Serum IL-10 in severity of psoriasis	Dr. Deena Patil	Senior Resident in Dermatology	M.S. Ramaiah Medical College	09/05/17
45	Role of zinc and folic acid supplementation as an aid to hematological recovery in dengue fever	Dr. Amulya M	PG in Pediatrics	M.S Ramaiah Medical College	03/07/17
46	Study of 2 nd trimester serum neutrophil gelatinase associated lipocalin in the prediction of pre eclampsia and IUGR	Dr. D. Krishna Sai Sushma	PG in Obstetrics and Gynecology	M.S Ramaiah Medical College	28/07/17
47	Serum Bimphenol -A study in PCOS patients	Dr. Shashank	Senior Resident in Endocrinology	M.S Ramaiah Medical College	19/08/17
48	Study of P53 expression in prostatic lesions through IHC	Dr. Ganaraj Bhat	PG in Pathology	M.S Ramaiah Medical College	20/11/17
49	Urinary NGAL for early detection of contrast induced nephropathy	Dr. Shruti Sagar B	PG in General Medicine	M.S Ramaiah Medical College	04/12/17

V. Mysorekar
Med 29/10
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

2018

Sl. No.	Title of project / Test done	Investigators	Designation	Institution	Date
50	Mucocutaneous manifestation in CKD patients on maintenance hemodialysis.	Dr. Chaitra S	PG in Dermatology	M.S Ramaiah Medical College	19/03/18
51	Relationship between salivary Alpha2 macroglobulin and HbA1c among patients with Type II diabetes mellitus.	Vanshika Rastogi	UG 5 th term MBBS student	M.S Ramaiah Medical College	10/08/18
52	Evaluating effect of NSPT in GDM patients	Dr. Shivani	MDS student	M.S. Ramaiah Dental College	18/09/18
53	Insulin and Interleukin 33 by Elisa method	Dr. Hema M	PG in Biochemistry	M.S Ramaiah Medical College	05/09/18
54	Assessment of salivary endothelin 1 in patients with oral submucous fibrosis	Dr. Ankita Kar	MDS student	M.S. Ramaiah Dental College	25/10/18
55	Estimation of osteoprotegerin levels in peri-implant crevicular fluid and its correlation with clinical parameters	Dr. Sheetal Jain	MDS student	M.S. Ramaiah University of Applied Sciences	12/04/18
56	Immunohistochemistry staining - CK7 in cervical lesions	Dr. Samyuktha A	PG in Pathology	M.S Ramaiah Medical College	26/08/18

2019

Sl. No.	Title of project / Test done	Investigators	Designation	Institution	Date
57	Study to assess the role of soluble Triggering receptor expressed on myeloid cell-1 in the diagnosis of sepsis	Dr. Richa Singh	PG in Biochemistry	M.S Ramaiah Medical College	11/03/19
58	Insulin levels in primary hypothyroidism before and after treatment	Dr. Supriya Indi	PG in General Medicine	M.S Ramaiah Medical College	28/07/19
59	Androgen receptor expression in prostatic hyperplasia and neoplasia	Dr. R. Shalini	PG in Pathology	M.S Ramaiah Medical College	13/08/19
60	Immunohistochemistry staining - p53 in gastric lesions	Dr. Mansi Khamesra	PG in Pathology	M.S Ramaiah Medical College	12/09/19
61	Estimation of levels of apelin in gingival crevicular fluid of periodontitis	Dr. Gayathri K	MDS student	M.S. Ramaiah Dental College	17/09/19
62	Evaluation of GCF MMP-7 levels in patients with periodontal diseases	Dr. Saagar Bhargava	MDS student	M.S. Ramaiah Dental College	17/10/19
63	Immunohistochemistry staining - p53 in oesophageal lesions	Dr. Lavish Tayal	PG in Pathology	M.S Ramaiah Medical College	25/10/19

MedL 9/20

PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

from

Dr Aneeha Arook kumar
Final year pathology PG
MSRMC

To

The Principal
MSRMC

Sub. To get permission to do IHC study in central research
laboratory (CRL).

Respected Sir, kindly grant me permission to conduct
IHC study as a part of my thesis in central research
laboratory (CRL).

Bengaluru
25/8/2015

Thanking you.

Yours faithfully

Aneeha

P63

Forwarded to the
Principal and Dean.

Whypochar
25/8/15

PROF. & HOD.
DEPT. OF PATHOLOGY
M.S. RAMAIAH MEDICAL COLLEGE
BANGALORE - 560 054

Heed 9/aw
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to
Prof. Vijaya - Incharge-CRL for needful
myanubhai

AGP

25/8/15

From,

Rima

Post Graduate student

Department of Periodontics

FDS, MSRVAS

Bangalore

To,

The Principal

M.S. Ramaiah Medical College

Bangalore

Sub: Requisition to avail laboratory facilities for carrying out ELISA test.

Respect Sir/M'am,

With due respect I would like to state that I, Dr Rima is doing a dissertation on inflammatory biomarkers in chronic kidney disease patients for which in need to run ELISA test for IL-6 and CRP. As these facilities are available in central research laboratory, I kindly seek your valuable permission to avail it.

Kindly grant me permission and oblige.

Thanking you.

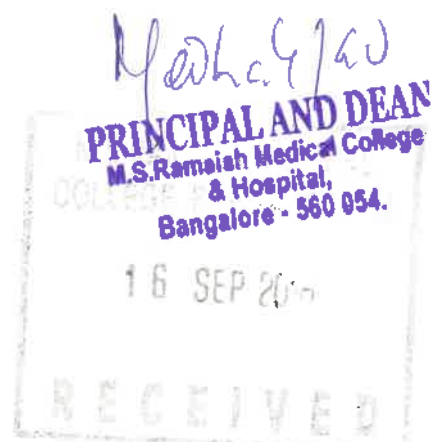
Yours faithfully,

Dr. Rima

Ph. No - 9590655665

Forwarded to
Dr. Anura Mysorekar


Dr. ASHWINI. S.
Professor & HOD
Department of Periodontology
Faculty of Dental Sciences.



7-5-16

From,
Dr Parana A
Post graduate,
Department of Biochemistry.
M.S. Ramaiah Medical College.
To,
The Principal,
M.S. Ramaiah Medical College.
Bangalore.

Respected Madam.

subject: Requesting permission to process
samples at CRL lab.

As a post graduate, I am doing my dissertation
project titled "Urinary NGAL and Urinary Transferrin
as an early marker^o renal damage in Type 2 DM:
A case control study," under guidance of Dr K.C Vasudha.

Urinary NGAL and Urinary Transferrin will be
estimated by ELISA method. The above markers do
not have stability for a very long period, therefore
have to be processed within 30 days. Hence Strip ELISA
has been opted for. kindly grant me the permission
to run the parameters at CRL lab and oblige.

Thanking you,

Sincerely,

(Parana A)

(Dr. Parana A)

Medha K
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded for needful

Dated

Forwarded for the
needful.
File
07/05/2016

Forwarded to Dr. Vijaya Mysorekar for
needful m.p

To

Dr. Vijaya V. Mysorekar
Department of Pathology, HOD
MS Ramaiah medical college
Bangalore, Karnataka

Subject: Seeking your expertise for histopathology studies on AVN and control bone.

Dear Madam

I introduce myself as Dr. Venketesh Sivaramakrishnan from SSSIHL. Reference to conversation between your good self and Dr. Sundares, Ramaiah Medical College we will be obliged if your good self could help us with histochemistry of bone in our research on AVN. One of my PhD students Aswath Narayan is working on a hip bone disease called Avascular necrosis of femoral head. As part of the project, we need to carry out a histopathology study of the avascular necrotic bone and fracture bone samples (which serves as control). Precisely we want to look into Haematoxylin and eosin staining, Toluidine blue staining, Masson's trichrome staining, TRAP and Alkaline phosphatase staining for these bone samples. We have a total of 5 patient bone and 5 control fracture bone samples. We want to look into difference in the staining patterns of the diseased bone and normal non diseased bone samples. We will be obliged if your good self could kindly help Aswath Narayan in the above staining techniques and also in data interpretation.

Thanking you.

With Sincere regards,

S. Venketesh

(Venketesh S)
Dr. S. Venketesh,
Assistant Professor, Department of Biosciences
Sri Sathya Sai institute of higher learning
Prasanthinilayam, Puttaparthi, Andhra
Date: 17.01.15

Med 9/as
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Approved by Principal on 29/1/15

Vijaya

PATH

To,

The Principal

M.S Ramaiah Medical College,

Bangalore

Subject:-Permission to run salivary samples in Central Research Lab

Respected Sir,

I request your kindness to grant me permission to run the salivary samples using the facilities available at Central Research Laboratory for the following study "Detection of salivary cotinine level in tobacco users". I will be highly obliged.

Thanking You,

Dr Nidhi Chugh

PG Student,

Department of Oral Medicine and Radiology

Dr Sujatha.S.

Head of Department of Oral Medicine and Radiology,

FDS .Bangalore

Medha Rao
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054

[Signature]

DEPT. OF ORAL MED. DIAGNOSIS
& RADIOLOGY
M. S. R. Dental College
BANGALORE - 560 054

please pay 2 FSD
Tincoral Ambrules & used
other reagents costs used
@ CR

[Signature]
15/4/15

M.S. RAMAIAH MEDICAL COLLEGE BANGALORE
27 FEB 2015
RECEIVED

Bill # 1901
Amt. received
[Signature]

From

Dr Navitade.k

Post Graduate

Department of Biochemistry

M.S.Ramaiah Medical College, Bangalore

To

The Principal and Dean

M.S. Ramaiah Medical college and hospital

Bangalore - 54.

12/3/15

Bangalore

12

THROUGH PROPER CHANNEL

Medh/ao
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

SUB:- Permission to process dissertation samples in central research lab [M.S. Ramaiah Teaching hospital]

Respected Sir,

I am second year post graduate from department of biochemistry, here by request you to kindly grant permission for processing my samples in central research lab.

Thanking you

Yours sincerely

Nalle
[Dr Navitade.k]

M.S. RAMAIAH MEDICAL
COLLEGE BANGALORE

1. KNC

Forwarded for the
needful.

filed
12/3/2015

Principal and Dean
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

From,

Dr. Lakshmi. D

II year Post graduate

Dept. of Biochemistry

M.S. Ramaiah Medical College

Bangalore

204.15

Bangalore

20/04/2017

(1)

TO,

The Principal and Dean

M.S. Ramaiah Medical College

Bangalore

Through Proper Channel

Subject: Permission for processing dissertation sample in Central Research Laboratory, M.S. Ramaiah Hospital, Bangalore.

Respected Sir,

I, Dr. Lakshmi. D., 2nd yr post graduate student from Dept of Biochemistry, am doing my dissertation on "Insulin Resistance and TNF- α in CKD" under the guidance of Dr. K.S. Meera, Professor and HOD, Dept. of Biochemistry. I hereby request you to grant me permission to process my dissertation samples for the parameters - Insulin and TNF- α in Central Research Laboratory (CRL), M.S. Ramaiah Hospital. Kindly do the needful.

Thanking you,

Yours sincerely

Lakshmi. D

[LAKSHMI. D]

Forwarded for the needful

for
24/04/2017
Professor and Dean
Department of Biochemistry
M.S. Ramaiah Medical College
Bangalore - 560 054.

Medh. 4/20
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Dr. Lakshmi,

Please pay ₹ 2000/- (Two thousand) towards consumables & other expenses for CRL

20/04/2017

From

Dr. Ritu Priya
2nd year Post Graduate,
Dept of Biochemistry,
M.S. Ramaiah Medical College
Bangalore.

Bangalore

21/4/15

Bill # 1906

(6)

To,

The Principal and Dean
M.S. Ramaiah Medical College,
Bangalore.

Through: Proper Channel

Subject: Permission for processing dissertation sample
in Central Research Laboratory (CRL), M.S.
Ramaiah Medical College, Bangalore.

Respected Sir,

I, Dr. Ritu Priya 2nd year Post Graduate
student in Dept. of Biochemistry, am doing my
dissertation on "Serum Vitamin D levels in
Primary Hypothyroidism" under the guidance
of Dr. Varadha K.C. Professor, Dept. of Biochemistry.
I hereby request you to grant me permission
for processing my dissertation samples for
the parameters "Vitamin D" and "Anti TPO"
in Central Research Lab.

Kindly do the needful.

Thanking You.

Ritu Priya
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Yours Sincerely

Ritu Priya

Dr. Ritu Priya

2nd yr PG

Dept. of Biochemistry

Forwarded
for needful.

21/4/2015

Principal and Dean
Department of Biochemistry,
M.S. Ramaiah Medical College
Bangalore - 560 054.

PTO.

BANGALORE
27/4/15

(2)

FROM,

DR. P. KRISHNAVENI
IInd YR POST GRADUATE
DEPT OF BIOCHEMISTRY
MSRMC

TO

THE PRINCIPAL & DEAN
M. S. RAMAIAH MEDICAL COLLEGE
BANGALORE

THROUGH PROPER CHANNEL

Sub: Permission for processing dissertation sample in
Central Research Laboratory (CRL), MSRMC

Respected Sir,

I Dr. P. Krishnaveni, IInd yr Post Graduate stud
in the Dept of Biochemistry, am doing my dissert
ation on "Serum Amyloid A levels in Neonatal Sepsis"
under the guidance of Dr. Vanitha Gowda, Associate
Professor, Dept of Biochemistry. Hereby requesting
you to grant me permission to process my
dissertation samples for parameter SAA in CRL.

Kindly do the needful.

Thanking You
M. S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Yours sincerely
P. Krishnaveni

DR. P. KRISHNAVENI

Forwarded
to the Principal

for
29/4/2015
Deposited at Registrar's Office
M. S. Ramaiah Medical College
Bangalore - 560 054

Forwarded to
Dr. Chidambaram
needful
P.T.O.

ACF
25/5/15

From

Dr Sans Korbh

Final year Pg

Dept. of G Surgery

MSR MTH

D:- 27/5/15

To

The Principal

M.S. Ramaiah Medical College

Bangalore

Sub: Permission regarding the use of CRL for thesis study

MED 9/20
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Respected Sir,

Kindly grant me the permission to access the CRL to conduct a study on my thesis topic "Collagen in Transversalis fascia in primary acquired & cremonal hernia" which is done under the guidance of my guide, Dr TV Narayanaswamy, Associate Professor Dept of General Surgery, & the Collagen 3 quantitative analysis done under the experienced guidance of Dr Vijaya Mysore, Associate Professor, Dept of Pathology. Kindly grant me the permission & oblige to use the

To

Principal's Room

M.S. Ramaiah Medical College

M.S. Ramaiah

Bangalore



From: Dr. RAO E.E.

Principal

Dept. of General Surgery

Bangalore

Sir,

Regarding the health insurance contribution in

Subject

in a part of the

Expected Sir,

I, Dr. RAO E.E. General Surgeon, M.S. Ramaiah Medical College

have taken of "Insurance of Health" in the

subject, "Insurance of Health" in the

subject, "Insurance of Health" in the

to do the work in the

MedLd/10
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Thanking you

Yours faithfully,

R. RAO E.E.

Sd/-
(Dr. RAO E.E.)

Bengaluru
18/08/2015

To
The Principal,
M.S. Ramaiah Medical College,
Bengaluru.

Subject: Permission for storage of Samples in Central
Research Laboratory.

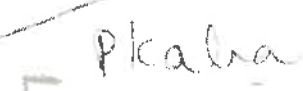
Respected Sir,

I Dr. Vinay Kumar D, Senior Resident in Dept of
Endocrinology is doing research on the topic "Effect of metformin
therapy on TSH levels in women with PCOS" under the guidance of
Dr. Pramila Kalra (Associate Professor, Dept of Endocrinology). I kindly
request you to grant me permission for the storage of blood samples
for my study in Central Research Laboratory.

Thanking you,

Mdha 9/10
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.


Dr. K.M. Subbunarayanan
Senior Professor & HOD,
Endocrinology
M.S. Ramaiah Medical College
(HOD)


Dr. Pramila Kalra
Consult. Endocrinology
KMC Reg. No. 96355
(Guide)

Yours Sincerely,

D. Vinay Kumar,

SR, Dept of Endocrinology

To Dr. Vinaya Meghlokhan
CRL etc


15/8



**M S Ramaiah
Memorial Hospital**
Better health for a better world

Bangalore,
19/8/15

TO

The Principal,
M.S Ramaiah Medical college,
Bangalore.

Sub:- permission to store samples in
Central Research Laboratory. (C.R.L)

Respected Sir,

I, Dr. K. Suman, and my resident
in the Dept of Endocrinology is working on a paper
"Renal Function in Primary hypothyroidism" which requires
cystatin 'c' samples to be collected. Hence, a request
is to grant me permission to store samples and run
the tests in central research laboratory. I'll be highly
obliged if you do the same.

paid Rs 1000/-

Rev: 3138

11/05/2017

Nagendra

PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

19/8/15

Dr. K.M. Suryanarayana
Senior Professor & HOD
Endocrinology

MSRIT Post, Bangalore - 560 054. Ph : 2360 8888, Fax : 2360 1924,
E-mail : msradmin@yahoo.co.in

A UNIT OF M S RAMAIAH HOSPITALS

To,

The PRINCIPAL & DEAN,

M S Ramaiah Medical College

Bengaluru-54

From

Shreedevi R kamaraddi - 7th term MBBS

M S Ramaiah medical college

Bengaluru-54

Respected sir,

Subject: Regarding permission to utilize central research laboratory for Immunohistochemistry related project.

I undersigned Shreedevi RK 7th term MBBS student doing a Immunohistochemistry project titled BCL2 expression in premalignant lesions of cervical cancer under the guidance of Dr.Sridhar.H (Dept of pathology) and Dr.Ashwini nayak(Dept of OBG). The above project was submitted under the ICMR-STs program however was not selected under the above program, hence i am continuing the project with my own funds.

I kindly request you to permit me to utilize the Central Research Laboratory facilities for the above project. And I kindly request you to waive off the CRL charges towards the project.

Kindly do the needful. Thanking you.

Date: 23-9-15

Place: Bengaluru

Shreedevi R Kamaraddi

(Shreedevi R Kamaraddi)

Guide: Dr.Ashwini nayak

Associate professor

Dept of OBG

H. Sridhar

Co guide: Dr.Sridhar H

Associate professor

Dept. of pathology

23/09/15
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

→ J. K. NC
Kindly comment
a 100% call
the basic charge
23/09/15

From,
Dr. Lakshmi.D.
Final yr Postgraduate
Dept. of Biochemistry
M.S. Ramaiah Medical College
Bangalore

DT - 30.09.15
Place - Bangalore

To,
The Principal and Dean
M.S. Ramaiah Medical College
Bangalore.



Through proper channel.

Sub: Permission for processing dissection sample in
Central Research Laboratory, M.S. Ramaiah Hospital
Bangalore.

Respected Sir,

I, Dr. Lakshmi.D. final yr post graduate student from Dep
of Biochemistry, am doing a Research work on "Study
of Relationship b/w S. Prolactin levels and inflammation in
CND" Under the guidance of Dr. K.S. Meera, Prof and HOD
Dept of Biochemistry. I hereby request you to grant me per-
mission to process the serum samples for prolactin by
ELISA method in Central Research Laboratory.

Kindly oblige and do the needful

Thanking you.

Yours Obediently

Lakshmi.D

[DR. LAKSHMI.D.]

Forwarded for
the needful
Recd
30/9/2015

Principal and Dean

Dr. K.S. Meera, HOD
M.S. Ramaiah Medical College
Bangalore - 560 054.

1309/2015
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.



M.S. RAMAIAH MEDICAL COLLEGE
(An Autonomous Institute Affiliated to VTU)
BANGALORE - 560 054



Principal
M.S. Ramaiah Medical College
Bangalore - 560 054

Ref No : MSRIT/

Date 18-01-2016

To
The Principal
M S Ramaiah Medical College
Bangalore

Dear Madam

This is to introduce the following students, who are bonafide students of our Institute. They are currently studying in 8th semester, BE-Biotechnology and are entitled to do a final year project as a part of the course curriculum under the guidance of **Dr. K N. Chidambara Murthy**, Principal Scientist, Central Research Laboratory, M S R Medical College & **Dr. Ahalya N.** Associate Professor, MSRIT.

<u>Sl No</u>	<u>Name</u>	<u>Class</u>	<u>USN No</u>
1.	Ms. Swarna S	8 th Sem Biotechnology	IMS12BT052
2.	Ms. Ramya L	8 th Sem Biotechnology	IMS12BT031

We therefore request you to kindly grant the permission to conduct their final year project in your esteemed Institution & provide the necessary facilities for the completion of their project work. The students will bear the cost of chemicals.

[Signature]
18/01/16

Thanking you
Yours Sincerely

Head of the Department
Department of Biotechnology
M.S. Ramaiah Institute of Technology
Autonomous Institute Affiliated to VTU
Bangalore-560 054

Forwarded to B. Vijayamysore for
Hear. Cell
for needful
AGP
20/1/16

[Signature]
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to Dr. K.N.C. Murthy
for needful. V. Nysachar
22/1/16



Ref. No. MSRIT.

Date 18.01.2016

To
The Principal
M S Ramaiah Medical College
Bangalore

Dear Madam

This is to introduce the following students, who are bonafide students of our Institute. They are currently studying in 8th semester, BE-Biotechnology and are entitled to do a final year project as a part of the course curriculum under the guidance of **Dr. K N. Chidambara Murthy**, Principal Scientist, Central Research Laboratory, M S R Medical College & **Dr. Ahalya N**, Associate Professor, MSRIT.

<u>Sl No</u>	<u>Name</u>	<u>Class</u>	<u>USN No</u>
1.	Mr. Nagendra P	8 th Sem Biotechnology	IMS12BT021
2.	Mr. Bharath Kumar Reddy B	8 th Sem Biotechnology	IMS12BT008
3.	Mr. Harish Kumar	8 th Sem Biotechnology	IMS12BT014

We therefore request you to kindly grant the permission to conduct their final year project in your esteemed Institution & provide the necessary facilities for the completion of their project work. The students will bear the cost of chemicals.

[Signature]
18/01/16

Thanking you
Yours Sincerely
Head of the Department
Department of Biotechnology
M.S. Ramaiah Institute of Technology
'Autonomous Institute Affiliated to VTU'
Bangalore-560 054

[Signature]
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to Dr. Vijaya Mysorekar
Head - CR for needful
ACR
20/1/16

Forwarded to Dr. K.N.C. Murthy
for needful - V Mysorekar
22/1/16

To

29/1/2016

Principal & Dean

M.S.RMC

Bangalore

From

Dr. Abhijit Bhargava

SR Endocrinology

M.S.RMC

Bangalore

Respected Sir,

Subject: Permission to run samples at CRL

I Dr. Abhijit Bhargava working as SR in the Department of Endocrinology request you for permission to run my samples for my study "Serum Adiponectin levels in drug naive newly diagnosed gestational diabetes Mellitus patient" at Central Research Lab.

Thanking you
Dr. Abhijit Bhargava

Medkalya
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to
Dr. Vijaya Mysorekar
for medical
ACD
29/1/16

K.M.
Dr. K.M. Srinivasan
Senior Prof. & HOD
Department of Endocrinology
KMC No. 14041



M.S. RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute, Affiliated to VTU)

(Approved by AICTE, New Delhi & Govt. of Karnataka)

ISO 9001:2008 Certified Institution & Accredited by National Board of Accreditation



Dr. K. N. C. Murthy, 11/03/16

Ref. No.. MSRIT/

Date 11-3-2016

To
The Principal & Dean,
M S Ramaiah Medical College,
Bangalore

Dear Sir,

This is to introduce Ms Chaithanya P bearing the USN 1MS14BBT04, 4th sem, M Tech-Biotechnology is a student of our Institute. She is interested in undergoing project work in your esteemed organization. She needs to use the plate reader in your esteemed organization for Biofilm quantification.

Hence I request you to provide facilities in your lab to carry out MTech project work under the guidance of Dr. K NC Murthy (External guide, CRL) and Dr.Dhamodhar P & Dr. Ahalya N (Internal guides, MSRIT) and provide the necessary facilities enabling her to carry out the project work at CRL. Any chemical costs incurred for the project will be borne by the candidate.

Thanking you
Yours sincerely

Signature of Internal Guide

Signature of Internal Guide

Signature of HoD

To discuss Dr. Vijaya Mysorekar & Dr. K.N.C. Murthy

ACP
11/3/16

11/03/16
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

- Rs. 1000 to be charged
use of the facility. Pay by challan
to college.

ACP
28/3/16

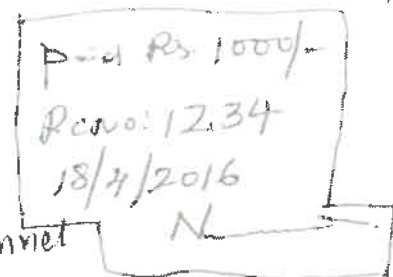
From,
Dr Ritu Buiya
Post graduate
Dept. of Biochemistry
M.S. Ramaiah Medical College
& Hospitals
Bangalore

2/4/16
Bangalore

Rs 1000/- to paid
in the college.

To,
The Principal and Dean
M.S. Ramaiah Medical College
and Hospitals
Bangalore

Wangpookan
13/4/16



Through Proper Channel

Sub: - Permission to process project samples in CRL

Respected Madam.

I am a post graduate in Dept. of Biochemistry, doing a project "Serum TSH levels in Dyslipidemic individuals" under the guidance of Dr Varadha KC, Professor, Dept. of Biochemistry. I hereby request you to grant me permission to process my samples in Clinical Research Laboratory (CRL) for serum TSH.

Thanking You,

Yours Sincerely

Ritu Buiya

Dr. Ritu Buiya

Dept. of Biochemistry

MSRMC, Bangalore

P/Whe.9/16
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

for needed

Dr. Ritu Buiya
02/04/2016

forwarded.

for
02/04/2016

Forwarded
to R. Buiya
for needed

for

02/04/16

To,
The Head of
CRL Lab
MSRMC

Date: 10/5/16

Subject:- Requesting the permission for using the Spectrophotometer in the CRL Lab.

Respected madam,

We are the student of MSRIT, Engineering Dept. of Civil. My project titled, Recycle & Reuse of dye effluents from textile industry, guided by Asst. Prof. MR. The final report of the project needs the reading of by the Spectrophotometer. The one in our college is not in working condition. So, I request you, to please give me permission to use the Spectrophotometer in the CRL Lab.

Thanking you,

Yours faithfully,
Biran Kumar

IMS12CV046
Civil Engg. Dept
MSRIT

Please grant him permission

Approved by
[Signature]

(Project Guide)

Permitted to use
the spectrophotometer

[Signature]
10/5/16

10/5/16
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

From,

21-06-2016

Dr. B. Pallavi,

Final year post graduate student,

Department of Biochemistry,

M.S.Ramaiah Medical College,

Bangalore 560054

To,

Dr. Medha Rao,

Principal and Dean,

M.S.Ramaiah Medical College,

Bangalore 560054

Through proper channel (Professor and HOD, Department of Biochemistry)

Respected Madam,

Sub: Permission to process dissertation samples at Central Research Laboratory.

I, *Dr. B. Pallavi*, a final year post graduate student, am hereby requesting you to grant me permission to process my dissertation samples for parameters Anti-TG and TSH at Central Research Laboratory, M.S.Ramaiah Hospital. The dissertation title being "SERUM ANTI THYROGLOBULIN AUTOANTIBODIES AND THYROID STIMULATING HORMONE IN TYPE II DIABETES MELLITUS: A CASE CONTROL STUDY" under the guidance of *Dr. Krishnamurthy U*, Associate professor, Department of Biochemistry.

Kindly do the needful.

Thanking you,

21/6/16
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Yours sincerely,

B. Pallavi
Dr. B. Pallavi

Dr. Krishnamurthy U

Dr. Krishnamurthy U

Forwarded
for the needful
21/6/2016
Professor and Head
Department of Biochemistry
M.S. Ramaiah Medical College
Bangalore - 560 054

Forwarded to
Dr. Vijaya Mysorekar
for needful

AGP
21/6/16

Ref No: 94315/16

FROM

DR. DIVYA B

MS OBG, FINAL YEAR POST GRADUATE

2014 - 2017 batch

M.S. RAMAIAH MEDICAL COLLEGE & HOSPITAL

BANGALORE.

TO

THE PRINCIPAL,

M.S. RAMAIAH MEDICAL COLLEGE & HOSPITAL

Bangalore.

Respected Sir/Madam,

I am doing final year MS OBG and my thesis topic is P53 immunorepression in non-neoplastic & neoplastic epithelial lesions of cervix & my sample size is 46 in each group (92 slides) - kindly give

permission for using CRL for my thesis purpose. Thesis guide: Dr. Ashwin [Associate Prof OBG] (Pathologist) Co-guide: Dr. Shridhar

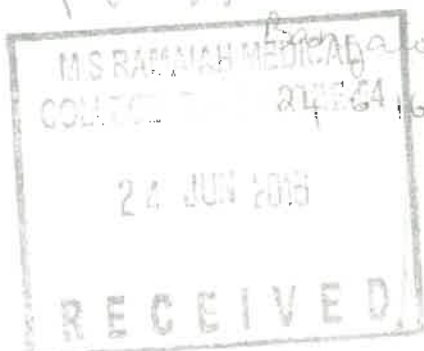
Thank you
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College & Hospital,
Bangalore - 560 054.

Sincerely,

Divya B
27/6/16

Forwarded
After Swearing
24/6/16

Forwarded to Principal
ACB
27/6/16



H Vijaya Mysore
27/6/16

5/7/16

From

Dr. Shital Tadha
Post graduate Student
Dept of Periodontics
FDS, MSRVS
Bangalore.



To,
The principal
M. S. Ramaiah Medical College
Bangalore

Sub: - Permission to avail laboratory facilities
for carrying out ELISA test

Respected Sir,

I, Dr. Shital Tadha, B^{sc} post graduate
from dept of Periodontics, FDS MSRVS, am doing a
dissertation on topic Vitamin D binding protein for
which i need to detect Vit D binding protein for
using ELISA kit. for which i need to avail your
lab facilities [Central Research Lab] for carrying out test
Kindly grant permission for same. Oblige.

Thanking You

Yours Sincerely
Dr. Shital Tadha
Mob: 9900778961

Metha/CO
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.


Dr ASHWINI . S
Professor & HOD
Department of Periodontology
Faculty of Dental Sciences,
MS Ramaiah University of Applied Science,
Bangalore - 560 054

Forwarded to
Dr. Vijaya Mysorekar
Per needed
ACP
2/2/16
Permitted
Vijayakar
2/2/16

From,
Swetha Subharaj,
Final year MBBS student,
9th term,
M.S.Ramaiah Medical College,
Bangalore-560054.

20-07-2016

To,
Dr. Medha Rao,
Principal and Dean,
M.S.Ramaiah Medical College & Hospitals,
Bangalore- 560054.

Forwarded through proper channel (Professor and HOD, Department of Biochemistry)

Respected Madam,

Sub: Permission to process research project samples at Central Research Laboratory

This is regarding a research project titled 'Association of Serum Neutrophil Gelatinase-Associated Lipocalin (NGAL) with Urinary Albumin Excretion in type 2 Diabetes Mellitus' [DRP/FP11/2016] that I am pursuing under the guidance of Dr. Vanitha Gowda MN, Associate Professor, Department of Biochemistry. The co-guide for the project is Dr. Pramila Kalra, Professor, Department of Endocrinology, MSRMC & H. Madam, I hereby request you to grant me permission to process the serum samples of the research project for the parameter Neutrophil Gelatinase-Associated Lipocalin (NGAL) by ELISA methodology at Central Research Laboratory, M.S.Ramaiah Hospital. Please find attached, a copy of the ethical clearance certificate.

Kindly do the needful.

Thanking you,

Yours' sincerely,

*Forwarded to
Dr. Vijaya Prasad for
needful*

Swetha

SWETHA SUBHARAJ

Medha Rao
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054. BIO

*Forwarded for
the needful
July 21/7/2016*

*Forwarded to
Dr. Vanitha Gowda MN
Associate Professor, Department of Biochemistry
M.S.Ramaiah Medical College
Bangalore - 560 054.*





**M.S. RAMAIAH MEDICAL COLLEGE
AND HOSPITALS
ETHICS COMMITTEE**

MSR NAGAR, MSRIT POST, BANGALORE - 560 054 - INDIA

Tel: 080-23605190, 23601743, 23601745, 23605408 Fax: 080-23606213

E-mail: msr_medical@dataone.in, msrmedical@gmail.com web : www.msrmc.edu.in

Ref No.

Reg. No. ECP/215/Inst/Ker/2010

MSRM/EC/2015

Date: 25.05.2015

To,

Dr. Sandhya Subbaraj,

Principal, MSRM, Bangalore

M.S. Ramaiah Medical College

Bangalore - 560 054

Sub: "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus"

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

The undersigned, Principal, M.S. Ramaiah Medical College, Bangalore, has received the application for registration of the research project titled "Association of serum neutrophil gelatinase-associated lipocalin (NGAL) with urinary albumin excretion in type 2 diabetes mellitus" submitted by Dr. Sandhya Subbaraj, Assistant Professor, Department of Physiology, M.S. Ramaiah Medical College, Bangalore.

[Signature]
Dr. Sandhya Subbaraj

Assistant Professor

MEMBER SECRETARY

ETHICS COMMITTEE

M.S. Ramaiah Medical College and Hospitals

Bangalore - 560 054

[Signature]
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Ref. No: 106/BSC/2-016

From.

Dr. Vanitha Gowda MN,
Associate Professor,
Department of Biochemistry,
M.S.Ramaiah Medical College,
Bangalore-560054.

20-07-2016

To,

Dr. Medha Rao,
Principal and Dean,
M.S.Ramaiah Medical College & Hospitals,
Bangalore-560054.

Forwarded through proper channel (Professor and HOD, Department of Biochemistry)

Respected Madam,

Sub: Permission to process research project samples at Central Research Laboratory

This is regarding a student research project titled '**A study to evaluate plasma D-Dimer levels in the third trimester of normal pregnancy and non-pregnant females in the reproductive age group**', undertaken by Dr. Kartik, intern. MSRMC & H. The guide for the project is Dr. Sujani BK, Professor. OBG with me being the co-guide. Madam, I hereby request you to grant me permission to process the plasma samples of the research project for the parameter D-dimer by ELISA methodology at Central Research Laboratory, M.S.Ramaiah Hospital. Please find attached the ethical clearance certificate of the project.

Kindly do the needful.

Thanking you,

Yours' sincerely,

Vanitha Gowda MN

Dr. Vanitha Gowda MN

Medha Rao
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

*Forwarded to
Dr. Jayamysankar for
needful*

*ACP
21/7/16*

*Forwarded for the
needful*

*per
22/07/2016*

*Dr. Vanitha Gowda MN
Associate Professor
Department of Biochemistry
M.S.Ramaiah Medical College
Bangalore - 560 054*

BIO



**M.S. RAMAIAH MEDICAL COLLEGE
AND HOSPITALS
ETHICS COMMITTEE**

MSP NAGAR, MSRIT POST, BANGALORE 560 054 INDIA

Tel: 080-23606190, 23601742, 23601743, 23605408 Fax: 080-23606213

E-mail: msr_medical@dataone.in, msmedical@gmail.com web: www.msrmc.ac.in

Ref No.

Reg. No. ECP/215/Inst/Ker/2013

MSRMC/EC/2016

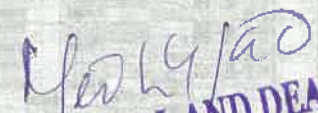
Date: 27/06/2016

To,
Mr. Kartik Seethar, Intern,
M. S. Ramaiah Medical College,
Bangalore - 560 054

Sub: "A study to evaluate plasma D-Dimer Levels in the third trimester of normal pregnancy and non-pregnant females in the reproductive age group".

The above mentioned Academic Protocol was placed before the Ethics Committee in the meeting held on 27th May, 2016 and the same was approved by the Ethics Committee.


(Dr. Medha V. Rao)
MEMBER SECRETARY
For ETHICS COMMITTEE
Member Secretary, M.S. Ramaiah Medical College and Hospitals,
Bangalore-560 054


PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

From,

Dr Anurita Pattanai
PGT - 2nd year
Dept of Microbiology,
MSRTH

To,

The Director,
Central Research Laboratory,
MSRTH.

Respected Sir,

(Sub: Permission to use the UV Spectrophotometer in CRL)

I, Dr Anurita Pattanai, am doing a short project on biofilm formation under the guidance of Dr Banachandrasekar is, Professor of Microbiology, MSRMC. For this, I need to use the UV Spectrophotometer in the Central Research Laboratory.

I request you to grant me the permission to use the same for a day on 29/07/2016 in the afternoon hours I have to run 60 samples.

Thanking You

(Signature)
PRINCIPAL AND DEAN
M.S. Ramiah Medical College
& Hospital,
Bangalore - 560 054.

Sincerely,

Anurita Pattanai

Date: 27/07/2016

Forwarded for the
record.
Dr. Jayashree
27/7/16

Permitted
Vijayakar
27/7/16

Date - 20 Aug 2016

From,
Alice Hepsiba S
Mtech, MSRIT
Bangalore - 560054

To,
Dr. Vijaya Mysorekar
Head of Central Research Laboratory
MSRMIT
Bangalore - 560054

Through
Dr. K.N. Chidambara Murthy
Principal Scientist, CRL
Bangalore - 560054

Respected Madam,

Subject: Payment towards research facilities (CRL)

I am Alice Hepsiba from MSRIT (M.Tech) and I completed my M.Tech Project Dissertation under Dr. K.N. Chidambara Murthy for a duration of eight months. The major experiments I carried out includes Soxhlet extraction, antioxidant screening, cytotoxicity assay, DNA fragmentation assay and microscopic study of treated cells.

Kindly let me know the cost estimate for the experiments

Thanking You,

Yours truly,

Alice S

(Alice Hepsiba S)

Principal and Dean
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Please mention lab charges & give final Amount to be paid
Amount used: 1200/-
(Most chemicals are got from new college)
all Raw materials were purchased by her
26/8/2016

Rs 1200 + Rs 2000

Lab charges.

Candidate has to pay

Rs 3200/- Vjaya
20/5/16

Date: 30 August 2016

From,

Bharath Kumar Reddy. B

B.E, MSRIT

Bangalore - 560054

To,

Dr. Vijaya Mysorekar

Head of Central Research Laboratory

MSRICH

Bangalore - 560054

Through

Dr. K.N. Chidambara Muthy

Principal Scientist, CRL

Bangalore - 560054

Respected Madam,

Subject: Payment

I am Bharath Kumar Reddy

my BE Project Dissertation along with

under Dr. K.N. Chidambara Muthy

major experiments we carried out includes Sachit extraction,

anti-oxidant screening, cytotoxicity assay.

Kindly let me know the cost estimate for the experiments.

Thanking you,

Yours sincerely,

Bharath Kumar Reddy

B. Bharath Reddy

charges - Rs 1250/-

+ Lab charges Rs 1000/-

Rs 2250/- to be paid by
the candidate. Nysa

M.S. RAMAIAH MEDICAL COLLEGE

M.S.R. Nagar Post, Bangalore - 560 054.

Sl. No. **2207**

FEE RECEIPT

Date **7/9/16**

Name

Bharath Kumar Reddy. B

Class

C.R.L.

Sl. No.	PARTICULARS	Amount	
		Rs.	P.
1.	CONSOLIDATED MARKS CARD FEES		
2.	BCIR/IEC CERTIFICATE FEES		
3.	PROVISIONAL DEGREE FEES		
4.	KANNADAT/INTERN BOOK FEES		
5.	IDENTITY CARD FEES		
6.	LOG BOOK		
TOTAL		2250/-	

CASHIER

Dear Dr. Vijaya Madam,

The cost for wounbles is 21250/-
They incurred for the period of
for month (2 days a week) please
indicate charges

PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital
Bangalore - 560 054.

Date Rs. 2250/-

No: 2207/7/9/16

Nysa

From,

24-08-2016

Dr.B.Pallavi,
Final year Post graduate student,
Department of Biochemistry,
M.S.Ramaiah Medical College,
Bangalore- 560054.

To,

Dr.Medha Rao,
Principal and Dean,
M.S.Ramaiah Medical College & Hospitals,
Bangalore- 560054.

Forwarded through proper channel (Professor and HOD, Department of Biochemistry)

Respected Madam,

Sub: Permission to process samples at Central Research Laboratory

I, Dr.B.Pallavi, a final year post graduate student of the Department of Biochemistry, am hereby requesting you to grant me the permission to process samples for a parameter Oxidized LDL at Central Research Laboratory, M.S.Ramaiah Hospital. The title of the study being "**Study of Oxidized LDL in Type II Diabetes Mellitus as a parameter for cardiovascular risk assessment**" under the guidance of Dr.Krishnamurthy U, Associate Professor, Department of Biochemistry.

Kindly do the needful.

Thanking you,

Yours' sincerely,

Dr.B.Pallavi
Dr.B.Pallavi

Dr. Krishnamurthy U
Dr. Krishnamurthy U
(GUIDE)

PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded for the
needful.
30/8/2016

Forwarded to Dr. Vijaya Mysorekar
CRL
To pay Rs 4000/-
ie. Rs 1000/parameter for
4 parameters. *Vijaya Mysorekar*
30/8/16



Department of Prosthodontics

TO

The Dean

31/08/2016

MS Ramaiah Medical College and Hospital

Bengaluru

Through

The HOD

Dept of Prosthodontics and Crown & Bridge

Faculty of Dental Sciences, MSRUAS

Subject: Application for seeking permission regarding working in Central research laboratory, MSRMC.

Respected Sir

I, Dr Rudrax Jindal, final year post graduate, Faculty of Dental Sciences, MSRUAS, would hereby like to state that I am doing my thesis on "Effect of surface treatment with varying particle sizes of alumina on retention of glass fiber post – an in vitro study". For this research work I will require a water storage equipment which will help me mimic intraoral environment at 37°C for 24 hours. This equipment is available in the Central Research Laboratory, MSRMC.

It is my sincere request to allow me to avail the facility for my research work; I would be highly obliged.

Thanking You

Dr Rudrax Jindal

Final year postgraduate student

Dept. of Prosthodontics and crown & bridge

Faculty of Dental Sciences, MSRUAS

M. S. Ramaiah
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Faculty of Dental Sciences

M. S. Ramaiah University of Applied Sciences

Gnanagangothri Campus, MSR Nagar, MSRIT Post, Bangalore -- 560 054

Phone: 080-2360 2079 / 080-2360 0949 | Fax: 080-2360 1825 | Web: www.msruas.ac.in

Permitted To
pay Rs 300/- as
lab charges
3/7

From,

SUDHA BANTI

Postgraduate Student

Dept. of Dermatology
MSRMC.

Date

Bangalore

21/9/16

21/9/16

To,

The Director,

Central Research Laboratory

MSRMC

[through proper channel]

Sub: Utilization of facilities at
Central Research Lab.

Respected Sir,

I am here with bringing to your notice
that I have used the facilities at Central
Research Laboratory for my dissertation
on "Intestinal resistance in different grades of acute
nigricans" for doing ELISA test with help
of Mr. Jayakumar.

[Signature]
PRINCIPAL AND DEAN
M.S. Ramiah Medical College
& Hospital,
Bangalore - 560 054.

Thanking you

Yours sincerely
(Dr. Sudha Banti)
Banti

[Signature]
DR. T.K. SUMATHY
Senior Professor & Head
Dept. of Dermatology
M.S. Ramiah Medical College &
Hospital, Bangalore - 560054

[Signature]
Dr. T.K. Sumathy

Bangalore,
14/3/17.

To,
Dr. Medha. Y. Rao,
The Principal,
M.S. Ramaiah Medical College.

paid Rs 1000/-
Recd. 2984
11/04/2017
Naganya



Through Proper Channel

Respected Madam,

Sub: To seek permission, to perform
S100b ELISA test in Central Research Laboratory
for my research project. (S100b protein levels
in acute stroke patient)

I, Dr. Kiran Buddarej, doing my residency
in Neurology, request you to permit me perform
ELISA test for my research project (sample size
Patients - 43, Controls - 43); which was approved by
scientific & ethical committee. M/Chd 9/40

Thanking you

PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital
Bangalore - 560054.
14/3/17

Yours sincerely,

Dr. Kiran Buddarej
Neurology Resident

Forwarded to
Dr. Vijaya Mysorekar
for needed AGP
15/3/17

DR. P. T. ACHARYA,
MD (Med), DM (Neuro)
Professor & HOD
Department of Neurology
M.S. Ramaiah Medical College & Hospital

forwarded
14/3/17



RAMAIAH
Indic Specialty Ayurveda
RESTORATION HOSPITAL

Professor & Director
Ayurveda/MRPA
(MRP/MSA) PhD (India)
Master of Public Health (MPH) (Canada)

14th March 2017

To,
The Principal,
MS Ramaiah Medical College,
MSR Nagar,
Bangalore

Respected Madam,

Subject: Requisition to utilize the facility in Central Research Laboratory

We are currently working on a project entitled, " Exploring the correlations between human gut microflora and dosha prakrithi based on principles of Ayurveda", funded by the Science and Engineering Research Board, Government of India. As a part of the project work, we have to separate the DNA from stool sample and buccal swab. As it has to be done under less contaminated area, kindly permit us to utilize the facility in the Central Research Laboratory, and oblige.

Thanking you,

With Regards,


Dr. G.G. Gangadharan
Director

Forwarded to Principal & Dean
ACF
12/3/17

It is feasible to do
the project. The investigator
will have to provide some
required equipment. (Waste
by water bath)
26/4

12/4/17
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

M.S. Ramaiah Nagar
MSRIT Post
Bangalore 560 054
www.ramaiah-india.org

+91 80 2215 3436
+91 80 9637 28541
marcan@gmail.com
www.marcan.com

A project funded by the Government of India, Department of Science and Technology, New Delhi

Bangalore

24.03.2017

From

Dr. Priyadharshini.R

First year M.D.S Postgraduate student

Department of oral medicine and radiology

FDS, RUAS

Bangalore

Through

The Dean

FDS, RUAS

Bangalore

To

The Principal

Ramaiah medical college and Hospital,GEF

Bangalore

Respected sir,

Subject: Requesting permission to work in Central Research Laboratory, M.S.Ramaiah Teaching hospital

I, Dr. Priyadharshini.R, doing first year M.D.S in Department of Oral medicine and radiology in FDS, am interested to work on a short term research project, under the guidance of Dr. Sujatha. S (H.O.D, Department of oral medicine and radiology). Following discussion with Dr.K.N.Chidambara Murthy, Central Research Laboratory, Ramaiah medical college, the study is designed to estimate Opiorphin, endogenous opioid present in saliva, for which I would like to get the expertise guidance from Central research Laboratory and access the facilities for working on ELISA.

I request you to kindly grant me permission to work in Central Research Laboratory for the same

Thanking you

Yours sincerely

Dr.Priyadharshini.R

Med 24/3/17
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Ruh
24/3/17

Dr. Sujatha S
24/3/17

Dr. Sujatha S
24/3/2017

Forwarded to
Dr. Vijaya muneekar for
need by
APR
25/3

Dr. Priyadharshini.R
Department of Oral Sciences
M.S.Ramaiah Medical College
& Hospital, GEF
Bangalore

4/4/17

From,

Dr Parana - A

II year Biochemistry,
M.S. Ramaiah Medical College
Bangalore.

To,

The Principal,
M.S. Ramaiah Medical College,
Bangalore

Subject's Requestion for processing samples by ELISA
Method in CRL Lab.
THROUGH PROPER CHANNEL

Respected Madam,

As a part of the parallel project, titled "Effect
of Lifestyle Modification on ^{serum} Myostatin levels: A prepa
study", the patient samples have to be processed
to quantify Myostatin & Insulin by ELISA method.
Kindly allow me to run the samples in the CRL
lab and I will oblige.

Thanking you.

Faithfully,

Parana - A

Dr Parana - A.

Forwarded to
Dr. Vijaya Mysore
APR
10/4/17

Recommended and forwarded for
needful.

4/4/17
PRINCIPAL DEAN
M.S. Ramaiah Medical College
& Hospital
Bangalore-560 054
Department of Biochemistry
M.S. Ramaiah Medical College
Bangalore-560 054

Forwarded for
needful 10/4/17

Received

Kalishetti
5/4/17

Date: 09/05/2017

To,

The Principal and Dean
Ramaiah Medical College
Bengaluru 560 054

From,

Dr. Deena Patil
Senior Resident
Dept. of Dermatology

Through proper channel

Sub: Permission to carry out ELISA test at Central Research Lab at RMCH

Respected Madam,

As above mentioned we from Dept. of Dermatology are pursuing a research project on psoriasis entitled "Relevance of serum VEGF and serum IL-10 in severity of psoriasis". Now we are completing the pilot study for which an ELISA test needs to be done and with the results we would like apply for RGHS grant 2017-18.

Kindly permit to do the ELISA test at CRL.

Thanking you
Yours sincerely



Dr. Deena Patil

MS RAMAIAH MEDICAL
COLLEGE
18/05/2017
RECEIVED
MED 9790
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital
Bangalore - 560 054

Permitted
Mysorekai
18/5/17

9/05/2017
Dr. T. K. Srinivas
Senior Professor & HOD
Dept. of Dermatology
M.S. Ramaiah Medical College
& Hospital
Bangalore - 560 054

18/05/2017
Mysorekai
needful
ACP
18/5/17

From,

Dr. Anulya M.

3/7/2017

Pediatric Post Graduate

Dept of Pediatrics

M S Ramaiah Medical College - B'lore

To,

The Principal

M S Ramaiah Medical College,

B'lore



THROUGH PROPER CHANNEL

Respected Sir/Madam,

SUBJECT: Requesting permission to conduct test in the Central Research Laboratory.

I, Dr. Anulya M, a pediatric post graduate, is doing my dissertation on "The Role of Zinc and Folic acid supplementation as an aid to hematologic recovery in dengue fever" under the guidance of Dr. ATK Ravi and Dr. Vanitha Gowda.

I am hereby requesting you kindly to grant me the permission to run my samples for the estimation of folic acid by ELISA method in CRZ with the assistance of Mr. Jaykumar.

Kindly oblige.

Thanking you

Yours sincerely

Alyk

DR. ANULYA M.



DR. KARUNAKARA B P

Forwarded to
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

10/7/17

From,

28-07-2017

Dr.D.KrishnaSaiSushma,
Final year Post graduate student,
Department of OBG,
M.S.Ramaiah Medical College,
Bangalore-560054 .

To,

Dr.MedhaRao,
Principal and Dean,
M.S.Ramaiah Medical College & Hospitals,
Bangalore-560054.

Forwarded through Professor and HOD, Department of OBG

Respected Madam,

Sub: Permission to process dissertation samples at Central Research Laboratory

I, Dr.D.KrishnaSaiSushma, a final year post graduate student of the Department of OBG, am hereby requesting you to grant me the permission to process my dissertation samples for parameters Sc. NGAL, PIGF and sFlts at Central Research Laboratory, M.S.Ramaiah Hospital. The dissertation title being "STUDY OF SECOND TRIMESTER SERUM NEUTROPHIL GELATINASE ASSOCIATED LIPOCALIN IN THE PREDICTION OF PRE ECLAMPSIA AND IUGR" under the guidance of Dr.Sujani.B.K Professor, Department of OBG.

Kindly do the needful.

Thanking you,

Yours' sincerely,

Dr.D.KrishnaSaiSushma

*Forwarded to
Dr. Sujani B.K. for
needful
as per
attestation*

*forwarded
Sujani*

*paid Rs. 1000/- + 1000/- + 1000/- (3000/-)
Rem: 3623/3629/3637
3/8/18 Nagesh*

29/8/18

PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

19-8-2017,
Bangalore

From

Dr. N. Shanthak,
Senior Resident,
Dept of Endocrinology,
Ramaiah Medical College

To

Dr. Medha Y. Rao,
Principal & Dean,
Ramaiah Medical College.

Subject: Regarding permission to store and analyze blood samples for my thesis project in Central Research Laboratory.

Respected madam,

I, Dr. N. Shanthak, Senior Resident in Dept of Endocrinology, requesting you for permission to store and analyze samples for my thesis project that is "Serum Bisphenol-A in PCOS patients" in Central Research Laboratory.

Forwarded

by

Ms L9/ao
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to

Dr. Vijaya Mysaiah for medical
ACU
19/8/17

Yours sincerely,

N. Shanthak

Ref no 10/1117/36/2017

Date: 20/11/2017

From,

Dr Ganraj Bhat
1st year PG
Department of pathology
MSRMC, Bangalore

To,
The Principal
MSRMC, Bangalore.

Through _____ paper channel

Respected Sir/Madam,

Subject: Permission to utilise CRL for research purpose.

I am a 1st year Post graduate in department of pathology in MSRMC. I would like to do a study about P53 expression in prestratic lesions through Immunohistochemistry. I would need your permission for doing the same at CRL. Kindly provide me with permission and do needful.

Thanking You,

Yours Sincerely,

Ganraj Bhat

paid Rs. 2000/-

Re no. 4055

22/11/17

Nagajit

For receipt

10/1117

Bangalore.

Forwarded to
Dr. Vijaya Mysaekae for
needful

AGP

22/11/17

To pay Rs. 1000/- towards CRL utilization. V. M. Venkatesh

Ms 2017/20
PRINCIPAL AND DEAN
M.S. Ramiah Medical College
& Hospital,
Bangalore - 560 054.

BANGALORE

To
The Principal,
M S Ramaiah Medical College,
Bangalore

Respected Madam,

I B SARUTHI SAGAR, 11 year
Resident in the Dept of General Medicine,
am doing my dissertation on the topic -
Urinary NGAL for early detection of Contrast
Induced Nephropathy. Kindly grant me permission
to use the CRL lab facilities for estimating
NGAL levels on the urine samples.

Thanking you

Principal and Dean
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Yours sincerely,

B. SARUTHI SAGAR

Dr. Vignesh N. Ramesh
for principal
4/12/17

Dr. R. Jyoti Kumar T.C., M.D. (Pathology)
Sr. Lecturer & Sr. Consultant
Dept. of Pathology, C No. 61038
M.S. Ramaiah Medical College & Hospital, Bangalore - 560 054.

To pay Rs 1000/- as CRL Utilization
charges Vigneshwar
4/12/17



To,
The Dean,
M. S. Ramaiah Medical College,
Bangalore

April 12, 2018

Dear Madam,

Sub: Permission to use central laboratory for dissertation purpose

With reference to the above subject, one of our students Dr. Sheetal Jain, 2nd year Post graduate, at the Department of Prosthodontics is doing her dissertation on "**Estimation of osteoprotegerin levels in peri-Implant crevicular fluid and its correlation with clinical parameters**", under the guidance of Dr. Vaishali K. Associate Professor, Department of Prosthodontics and Dr. Vibha Shetty, Head of the department, Department of Oral Implantology, FDS, RUAS.

Kindly grant her permission to use central laboratory for storing my samples and performing the necessary investigations for the same.

Regards,

MedLg/ko

Dean

Faculty of Dental Sciences

Ramaiah University of Applied Sciences

Bangalore

Faculty of Dental Sciences
M. S. Ramaiah University of Applied Sciences
Bangalore - 560 054

Dr. Chidambaram Shetty to discuss

This work will cost approx
2,000/- based on the 1st
iteration. we can plan
the experiment

Permitted. V. V. V. V. V.
12/5/18

Permitted. V. V. V. V. V.
for 3 months only
12/5/18

19th March, 2018

From,

Dr. Chaitra. S

Post-graduate student (MD)

Department of Dermatology

Ramaiah Medical College

Bangalore

To,

The Principal & Dean

Ramaiah Medical College

Bangalore

Through proper channels

Respected Madam,

SUB: Regarding permission for storage of samples in Central Research Laboratory (CRL) and for performing ELISA assays

I, the undersigned, would request you to kindly grant me permission to store blood samples in CRL for evaluation of parathyroid hormone, which I require for my dissertation (Mucocutaneous Manifestations in CKD Patients on Maintenance Hemodialysis).

Further I request you to grant permission to conduct ELISA assays on the same samples in CRL.

Thanking you.

Yours faithfully,

[Dr. CHAITRA]

9686182971

MedLg/CO
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded to 10. needful

paid Rs 1000/-
for no 5015
25/6/18
Nogari

Permitted
Vijay Kumar
20/3/18

Vijay Kumar Mysore
for resp
MedLg/CO
20/3/18

To,
The Dean,
Ramaiah Medical College and Hospital
MSRUAS, Bangalore

From,
Dr Ashwini S
HOD and Professor,
Dept. of Periodontology
FDS, RUAS



Respected Sir,

Subject- Regarding running of ELISA Test kit for Dissertation of Dr Shivani.

This is to bring into your kind notice that Dr Shivani, 3rd year post-graduate student of Dept. of Periodontology is doing her dissertation entitled "Evaluating effect of NSPT in GDM Patients with periodontitis by assessing levels of Interleukins" for which she will be needing to run ELISA Test kit for assessment of Interleukins. She will be needing technical assistance from Central Research Laboratory of Ramaiah Teaching Hospital for the same.

So, kindly guide her through it and please do the needful as required.

Thanking you,
Dr Ashwini S
HOD and Professor,
Dept. of Periodontology
FDS, RUAS

DR ASHWINI . S
Professor & HOD
Department of Periodontology
Faculty of Dental Sciences
MS Ramaiah University of Applied Sciences
Bangalore - 560 054

M. S. Ramaiah Medical College
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Dr Shivani
Post-graduate student
Dept. of Periodontology
FDS, RUAS

Head Dr. Vijaya Nagesh
T. H.
21/6/18

Please collect
2000/-
for Two parameters
18/9/18

Vijaya Nagesh
21/6/18

22/6/18

To
The Lab. Incharge,
CRL - MSRMCCH,
Bangalore.

Respected Madam,

I, Dr. Samyuktha. A, kindly
request you to allow me
to use the facilities in the
CRL - MSRMCCH for my thesis
related IHC staining.

Kindly do the needful.

Thanking you,

MCDhc 4/60
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Yours sincerely
Samyuktha
(Dr. SAMYUKTHA. A
3rd year Pathology B)

Vanshika Rastogi
9793654052

From,
Vanshika Rastogi,
5th term, MBBS student,
Ramaiah Medical College,
Bangalore-560054.

10-08-2018

To,
Dr. Medha Rao,
Principal and Dean,
Ramaiah Medical College & Hospitals,
Bangalore- 560054.

Respected Madam,

Sub: Permission to process research project samples at Central Research Laboratory

This is regarding a ICMR funded student research project titled 'Relationship between Salivary Alpha 2 macroglobulin & HbA1c among patients with Type-II Diabetes mellitus' that I am pursuing under the guidance of Dr. Pramila Kalra, Professor, Department of Endocrinology, MSRMC & The co-guide for the project is Dr. Vanitha Gowda MN, Professor, Department of Biochemistry. Madam, I hereby request you to grant me permission to process the saliva samples of the research project for the parameter alpha 2 macroglobulin by ELISA methodology at Central Research Laboratory, M.S.Ramaiah Hospital.

Kindly do the needful.

Thanking you,

Yours' sincerely,
Vanshika Rastogi
5th term MBBS

*Forwarded to
Pratibha
Dr. Pramila Kalra*

Medha 9/90
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

*Forwarded to
Dr. Vijaya
Mysorekar for
needful
ACP
10/8/18*

*Permitted
Vanshika
10/8/18*

*paid Rs 1000/-
for Rs 388
4/9/18
M...*

5/9/2018

From

Dr. Hema M
Post graduate student (M.D)
Department of Biochemistry
Ramaiah Medical College, B'lore

To

PRINCIPAL & DEAN
Ramaiah Medical College, B'lore

Through

HOD & Prof of Biochemistry
Ramaiah Medical College, B'lore

Respected Madam,

Subject : Regarding permission for
performing ELISA Assays

I am Dr. Hema M would request you
to kindly grant me permission to conduct
ELISA Assays for Insulin and Interleukin
on the same samples of my thesis in
Central Research Laboratory.

Thanking you,
Yours faithfully

Dr. Hema M
9844784498

paid Rs. 100/-
Rano 5369
5/9/18

Recd
Rs. 100/- Not no 5474
24/10/18

RECEIVED

Forwarded to
Dr. Vijaya Mysorekar

ACP
6/9/18

11/02/18
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Forwarded for
the needful
Hema
5/09/2018

Received by
At 2.00 PM on 5/9/2018
The Principal

Date : 25/10/ 2018

BANGALORE

From

Dr Ankita Kar

Third year post graduate

Department of Oral Medicine and Radiology.

FDS, MSRUAS

To

The Principal

M. S Ramaiah Medical College

Bangalore

Subject: Permission for saliva sample run at centre for research laboratory, M. S Ramaiah teaching hospital.

Respected sir,

I, Dr Ankita Kar, currently working for my thesis, titled Assessment of salivary endothelin 1 in patients with Oral Submucous Fibrosis, Leukoplakia, Oral Cancer and healthy individuals- A comparative study, for which I have to run saliva samples using ELISA kit at centre for research laboratory, M. S Ramaiah teaching hospital.

So, I humbly request you to kindly grant me permission for the same and oblige.

Thanking You

Yours sincerely,

Dr. Ankita Kar

Third year post graduate

Department of Oral Medicine and Radiology.

MsL4/20
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

25/10/18
(Dr. Sujatha S)
Department of Oral Medicine & Radiology
Faculty of Dental Sciences
Ramaiah University of Applied Sciences
Gnanagangothri Campus, MSRIT Post,
Bangalore - 560 054

Rs 1000/-
Permitted
Vijaya H
29/10/18
Forwarded to
Dr. Vijaya H
Kind consideration
AGP
29/10/18

From,

Dated: 11/03/2019

Dr. Richa Singh,
Second Year Post Graduate Student,
Department of Biochemistry,
M. S. Ramaiah Medical College,
Bangalore - 560054

To,

Dr. Medha Rao,
Principal and Dean,
M. S. Ramaiah Medical College & Hospitals,
Bangalore - 560054.

Forwarded through proper channel: Professor and HOD, Department of Biochemistry

Respected Madam,

Sub: Permission to process dissertation samples at Central Research Laboratory.

I, Dr. Richa Singh, a second year post graduate student from the Department of Biochemistry, am hereby requesting you to grant me the permission to process my dissertation samples for parameters sTREM-1 and CRP at Central Research Laboratory, M. S. Ramaiah Hospital. The dissertation title being "A study to assess the role of Soluble Triggering Receptor Expressed on Myeloid cell-1 (sTREM-1, in the diagnosis of sepsis." under the guidance of Dr. Vanitha Gowda M. N., Professor, Department of Biochemistry.

Kindly do the needful.

Thanking you,
Yours' sincerely,

Richa Singh

Dr. Richa Singh.
(Second Year
Post Graduate student,
Dept. of Biochemistry)

Forwarded to
Principal
for needful
11/3/2019

11/03/2019
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.
RECEIVED

Forwarded to
Dr. Vijayamysorekar for needful

paid Rs. 2000/-
R. S. Ramaiah
2/05/19
Nagappa

ACB
11/3/19

Vijayamysorekar
26/3/19

23/7/2019
Bangalore.

From

Dr. Supriya Indi
3rd year Postgraduate
Department of Medicine
Ramaiah Medical College
Bangalore - 560024

To,

Dr. Neelha Rao,
Principal and Dean
Ramaiah Medical College & Hospital
Bangalore - 560024

MedL9/20
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Respected Madam

Sub: Permission to process dissertation samples
at Central Research Laboratory.

As stated above I Dr. Supriya Indi student of
Department of General Medicine, hereby request you to grant me
permission to process my dissertation samples for parameters
including insulin levels at CRL. The dissertation title being
"Comparison of insulin resistance, glycemic status and lipid profile
in newly detected primary Hypothyroidism before and
after treatment".

To
The Principal
MSRMC
Bangalore,
Date - 28/7/2019

Through proper channel

Respected ma'am,

Subject: Permission to do IHC procedure in CRL
lab for thesis

I, Dr Mansi Khamesra, 3rd year PG, Pathology
request you to kindly give me permission
to do IHC procedure in CRL lab for my
thesis.

Thanking you
Yours sincerely
for



Dr Mansi Khamesra
3rd yr Pathology PG

sease collect
+ 1000/- as
utilisation charges.
Vijayachar 30/7/19

Permitted.

Vijayachar
30/7/19

Forwarded For Approval -
Dr. Vijaya Mysore
30/7/19

30/7/19
PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

ACP
30/7/19

Pa d R 100
Reme 741
12/8/19
Nayen

13/8/19

Bangalore

To

The Principal & Dean,

Ramaiah Medical College,

Bangalore.

Through,

HOD Department of Pathology,

Ramaiah Medical College,

Bangalore.



Respected Madam,

Subject - Regarding permission for performing IHC for
thesis.

I am Dr. Sholini R., post graduate department
of Pathology, MSRMC. I'm doing my thesis with
title Correlation of Androgen receptor expression with
other clinicopathological para magnetic parameters in
Prostatic hyperplasia & neoplasia. My total sample
size is 50. Kindly give me permission to utilize
CRC for IHC staining.

Thanking you,

Yours sincerely,

Dr. R. Sholini
9032707014

Forwarded to
Dr. Vijaya Mysorekari
for needful
ACB
16/8/19
12/8/19

PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

13/08/19

Permitted.

To pay Rs 1000/- towards lab
utilization charges. V. Vasanthakumari
12/8/19

paid Rs. 1000/-
Peno: 7390
29/8/19

Nagappa

To

The Principal

M.S.R.M.C.

Bangalore

Date 31/7/2019

through proper channel



Respected Sir,

Subject: permission to do IHC procedure
in CRC lab for thesis

I, Dr. Lavish Tatal, 3rd year PG Pathology
request you to kindly give me permission
to do IHC procedure in CRC lab for my
thesis

Thanking you

Lavish Tatal

(Dr. LAVISH TATAL)

3rd year pathology PG

[Signature]
31/07/19
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

[Signature]

[Signature]

19/8/19

Permitted

Vijayakar
20/8/19

1000/- to be

collected for CRC Utilization charges

paid Rs 1000/-
for CRC reporting

24/10/19

From,
Dr. Gayathri. K,
Post Graduate,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

17/09/2019

Through,
Head of the Department,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

To,
The Dean,
M.S. Ramaiah Medical college,
Bangalore

Respected sir/Madam,

Subject: Requisition to run ELISA as a part of my dissertation.

With due respect, I kindly request you to grant me permission to run the ELISA as a part of my dissertation titled "Estimation of levels of Apelin in Gingival Crevicular Fluid of Periodontitis patients: An Immunological Analysis" at Central Research Laboratory in M.S. Ramaiah Medical college, for which the collected samples and ELISA kit will be provided. Hope you kindly do the needful at the earliest.

Thanking you

Yours sincerely,
Dr. Gayathri. K

Dr. Ashwini, S
Professor & Head of the Dept
FDS, RUAS, Bangalore

Dr. Ashwini S
16/09/19
Dr. Vignya Mysorekar for needful
10/9/2019
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

Permitted, Rs 1000/- to be collected as lab-utilisation charge
Mysorekar
21/9/19

From,
Dr. Saagar Bhargava,
Post Graduate,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

17/09/2019

Through,
Head of the Department,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

To,
Mr. Jai Kumar,
Central Research Laboratory,
M.S. Ramaiah Medical college,
Bangalore

Respected sir,

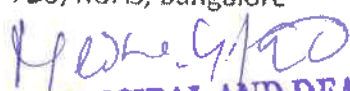
Subject: Requisition to run ELISA as a part of my dissertation.

With due respect, I request you to run ELISA as a part of my dissertation titled "Evaluation of GCF MMP – 7 levels in Patients with Periodontal Diseases" for which the collected samples and ELISA kit will be provided. Hope you kindly do the needful at the earliest.

Thanking you


Yours sincerely,
Dr. Saagar Bhargava


Dr. Ashwini. S
Professor & Head of the Dept
FDS, RUAS, Bangalore


PRINCIPAL AND DEAN
M.S.Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

From,
Dr. Saagar Bhargava,
Post Graduate,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

17/09/2019

Through,
Head of the Department,
Dept of Periodontology,
Faculty of Dental Sciences,
RUAS, Bangalore

To,
The Principal,
M.S. Ramaiah Medical college,
Bangalore

Respected sir/**Madam**,

Subject: Requisition to run ELISA as a part of my dissertation.

With due respect, I kindly request you to grant me permission to run the ELISA kit as a part of my dissertation titled "Evaluation of GCF MMP – 7 levels in Patients with Periodontal Diseases" at the Central Research Laboratory in M.S. Ramaiah Medical College, for which the collected samples and ELISA kit will be provided. Hope you kindly do the needful at the earliest.

Thanking you

Yours sincerely,
Dr. Saagar Bhargava

[Signature]
PRINCIPAL AND DEAN
M.S. Ramaiah Medical College
& Hospital,
Bangalore - 560 054.

[Signature]
Dr. Ashwini, S
Professor & Head of the Dept
FDS, RUAS, Bangalore

Kind Attention

- Principal & Dean
- Registrar

17/9/19

Dr. Vijayamysaibai for needful

ACIP
20/9/19

Principal & Dean
18/9/19

Permitted. Rs. 1000/- to be collected as lab. utilisation charges
21/9/19

LIST OF EQUIPMENT IN CRL

SL No	Name of Equipment	Make of Equipment	No	Year of Purchase	Cost of equipment
01	Refrigerator	LG	1	2018	25,000:00
02	Refrigerator	SAMSUNG	1	2006	20,000:00
03	Refrigerator	BLUE STAR	1	2006	20,000:00
04	Deep freezer -20 Degree	SIEMENS	1	2010	3,00,000:00
05	Digital Weighing Balance	M.R.C. BAA-600	1	2006	21,500:00
06	Digital Weighing Balance	SHIMADZU	1	2010	89,000:00
07	Incubator 37 Degree	JUBLEE	1	2014	30,000:00
08	Ph meter with electrode	SYSTRONICS	2	2015/ 2019	50,000:00
09	Microwave oven 21 Lts	SAMSUNG	1	2015	30,000:00
10	Microwave oven 21 Lts	LG	1	2019	30,000:00
11	Slide warmer		1	2006	3,000:00
12	Binocular Microscope	LABOMED	1		10,000:00
13	Cold microcentrifuge	REMI CM 12 Plus	1	2020	1,26,000:00
14	Centrifuge	REMI R4C	2	2006	10,000:00
15	Hot Air Oven	M.R.C. LTD	1		12,000:00
16	Cyclomixer	REMI CM 101	2	2020	5,000:00
17	Rotary Shaker	REMI RS 12	2	2020	43,000:00
18	Laminar Flow	ALPHA LINEAR	1	2006	1,10,000:00
19	Incubator 37 Degree	M.R.C.LTD	1	2006	30,000:00
20	Inverted Microscope	OLYMPUS	1	2010	1,57,000:00
21	CO2 incubator 37 degree	NUAIRE	1	2010	3,50,000:00
22	Vacuum Pump	MILLIPORE	1	2006	50,000:00
23	Gel Electrophoresis, Gel Dryer with accessories	SEBIA K20/ MG300	1	2008	2,78,000:00
24	Elisa Strip reader with Matrix CVT stabilizer	CPC STAT FAX	1	2008	1,05,000:00
25	Vortex shaker	TORSONS	1	2020	10,500:00
26	Cyclomixer		1	2006	6,800:00
27	Capillary Electrophoresis , Desk top with printer	SEBIA MINICAP	1	2020	17,40,500:00
28	Hot Air Oven	APOLLO	1	2015	10,000:00
29	Water Bath 18 Lts	KEMI	1	2020	20,000:00
30	Semi Auto Analyser	NEXT GEN SPAN	1	2009	1,00,000:00
31	Semi Auto Analyser	TRANSASIA ERBA CHEM -7	1	2020	1,85,000:00
32	Scanner	EPSON V700 Photo	1	2008	8,000:00
33	Fluorescent, Light, Polarizer Microscope with camera, desktop, & printer	OLYMPUS CX41 EPSON L 455	1	2012	9,00,000:00
34	Microscope with camera & desktop with software	OLYMPUS BX51	1	2006	11,00,000:00
35	Gamma Counter	IC 4702 A	1	2006	15,000:00
36	Magnetic stirrer	REMI	1	2009	5,000:00
37	Single Gas Stove Burner with Gas cylinder	PRESTIGE	1	2006	3,500:00

LIST OF EQUIPMENT IN CRL

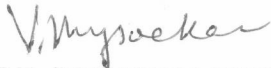
38	Cooker 25 Lts	PRESTIGE	1	2006	2,000:00
39	DNA Extraction Qubit TM4	THERMOFISHER	1	2020	2,50,000:00
40	Fully Motorized Upright Fluorescence microscope with camera, soft ware, FISH & Karyotyping	CARL ZEISS	1	2020	37,08,300:00
41	Hybridization system	META SYSTEMS	1	2020	2,84,000:00
42	Hot Plate steel top	Vasa scientific	1	2020	23,000:00
43	Weighing Balance	Vasa Scientific	1	2020	23,000:00
44	Freezer – 80 Degree	THERMO SCIENTIFIC		2020	6,50,000:00
45	Multi Mode Reader	SPINCO BIOTECH	1	2020	17,65,000:00
46	96 Well Plate Centrifuge		1	2020	3,99,900:00
47	Multi Channel Pipettes 5-50ul	THERMO SCIENTIFIC	1	2020	30,000:00
48	Multi Channel Pipettes 10-100ul	THERMO SCIENTIFIC	1	2020	30,000:00
49	Multi Channel Pipettes 30-300ul	THERMO SCIENTIFIC	1	2020	30,000:00
50	Precision Micropipettes	THERMO SCIENTIFIC	4	2010	24,000:00
51	CO2 Incubator	GALAXY 170S	1	2014	2,20,000:00
52	Laminar flow	ASPIRE	2	2009	2,00,000
53	R.T. PCR Quant studio -3	THERMOFISHER	1	2020	11,75,000:00
54	PCR System 9700 Gene Amp	THERMOFISHER	1	2009	5,00,000
55	CO2 incubator 37 degree	NUAIRE	1	2013	2,20,000:00
56	Spectrophotometer		1	2013	4,40,000

V. Mysorekar

"CENTRAL RESEARCH LABORATORY
M.S. RAMAIAH MEDICAL COLLEGE
MSR NAGAR, MSRIT POST,
BANGALORE - 560 054."

CENTRAL RESEARCH LABORATORY

Area in square feet	7000 square feet
Facilities Available	- Dedicated facility for proteomics research on Immunohistochemistry, Immunofluorescence, FISH, Cytogenetics, Microscopy and Electrophoresis. - Genetics research facility with DNA qualitative and quantitative analysis. - Advanced cell and tissue culture facility with biosafety cabinet, biological incubator and other related facility. - Basic biochemical analysis facility with deep freezer and cold storage facility. - Microscopy facility for imaging and molecular studies (including fluorescence microscopy). - Analytical facility with spectrophotometry and High Performance Liquid Chromatography. - Phytochemicals/ chemical extraction facility. - qPCR facility, - Multifunction plate reader (UV-Visible, fluorescence, ELISA, Chemiluminescence), - Cryopreservation facility.
Equipments Available	Separate list provided
Teaching Learning facility	
Total Number of Students posted – UG from 2015 to 2019	2015: 1 MBBS student 2016: 1 MBBS student 2017: 27 interns 2018: 161 interns + 1 MBBS student = 162 2019: 170 interns Total: 361 Interns are posted to Central Research Laboratory for 1 day as part of the Clinical Laboratory posting.
Total Number of Students posted – PG 2015 to 2019	2015: 8 from RMC 2016: 7 from RMC 2017: 5 from RMC 2018: 3 from RMC 2019: 5 from RMC Total: 28


"CENTRAL RESEARCH LABORATORY
M.S. RAMAIAH MEDICAL COLLEGE
MSR NAGAR, MSRIT POST,
BANGALORE - 560 054."

Documentation proof of posting	Included
*Number of workshops conducted – in collaboration with RMC & Department of Physiotherapy	Two
Student Research projects	Total: 55; From RMC: 31
Faculty Research projects	8
Type of support provided to strengthen the research culture by CRL	Equipment, technical support and help in interpretation of results are provided by CRL.
Any other best practices in CRL that can be projected	Students perform experiments themselves, under the guidance of the technical experts. Thus they get hands-on experience in laboratory work.

***Kindly note: For the number of workshops conducted at CRL, kindly furnish the details in the form of a list in below mentioned format from 2015 – 2019 for each year separately**

Sl No	Name of the workshop	Dates	Number of participants	Organiser
1.	Genetic counselling training with special emphasis on prenatal, postnatal diagnosis and reproductive genetics	6 th to 22 nd February 2018	20	Dr. Angel Beula P. R., Senior Scientist, Central Research Laboratory Dr. Vijaya V. Mysorekar, Professor of Pathology and In-charge, Central Research Laboratory
2.	Advanced Analytical Techniques for monitoring recombinant and other drug /products for quality health care	5 th to 23 rd March 2018	17	Dr. K. N. Chidambara Murthy, Principal Scientist, Central Research Laboratory

V. Mysorekar

"CENTRAL RESEARCH LABORATORY
M.S. RAMAIAH MEDICAL COLLEGE
MSR NAGAR, MSRIT POST,
BANGALORE - 560 054."

TEACHING – LEARNING ACTIVITIES - CRL

	2019	2018	2017	2016	2015
Number of Students posted – UG	170	162	27	1	1
Number of Students posted – PG	8	7	5	3	5
Duration of posting	1 day to 1 month	1 day to 1 month	1 day to 1 month	1 month	1 month
Objective of posting	Interns' orientation or Research project	Interns' orientation or Research project	Interns' orientation or Research project	Research project	Research project
Documentation proof of posting	Yes	Yes	Yes	Yes	Yes
Research projects if any in collaboration with CRL	As above	As above	As above	As above	As above

- ✓ Posting schedule – Interns' orientation schedule
- ✓ Letter of intimation sent to CRL – for research projects
- ✓ Attendance proof for 5 years - interns / research
- ✓ List of activities/ research undertaken in collaboration with CRL – List is provided

V. Mysocker

"CENTRAL RESEARCH LABORATORY
M.S. RAMAIAH MEDICAL COLLEGE
MSR NAGAR, MSRIT POST,
BANGALORE - 560 054."