

BIOCHEMISTRY DEPARTMENT



Welcomes
NAAC PEER TEAM



Dr H.V.Shetty. M.D, F.I.A.M.S,



Professor & HOD, Biochemistry

BIOCHEMISTRY DEPARTMENT





RAJARAJESWARI
MEDICAL COLLEGE & HOSPITAL

QUALITY POLICY

- ❖ **We at “RR Medical College and Hospital” are committed**
- ❖ **To provide Quality Allopathic Medical Education and advanced health care services as per customer’s needs & expectations to achieve highest customer satisfaction.**
- ❖ **By this we would like to be recognized as most preferred destination for Quality Education and Healthcare Services in the South India Region.**
- ❖ **We will achieve this goal by continual improvement of the Quality Management System.**

Date: 01-07-2013

Medical Director



VISION, MISSION, GOAL & OBJECTIVES

VISION:

- The Department of Biochemistry is committed to education, research, patient care, and training UG and PG students. to acquire an in-depth knowledge of the fundamental principles of the subject of Biochemistry.
- So that he/she can apply this knowledge, for understanding the basis of health and disease.

MISSION:

- To enable students to understand the scientific basis of life processes at the molecular level and orient them towards the application of knowledge acquired in solving clinical problems.
- To acquire basic practical skills for biochemical investigations in order to support clinical diagnosis of common disorders in the community, and
- To promote research activities for students and staff.



GOAL

The goal of teaching biochemistry including molecular biology to undergraduate and postgraduate students is to make them understand the scientific basis of the life processes at molecular level and orient them towards the application of knowledge acquired in solving clinical problems.



OBJECTIVES

- ⑩ TO TRAIN THE UNDERGRADUATE AND POSTGRADUATE MEDICAL STUDENTS AS PER THE UNIVERSITY GUIDELINES.
- ⑩ TO ENCOURAGE THE STAFF TO UPDATE THE RECENT BIOCHEMICAL CONCEPTS AND ENGAGE IN RESEARCH ACTIVITIES.
- ⑩ TO CONDUCT JOURNAL CLUB, CLINICAL CASE DISCUSSION FOR POSTGRADUATE STUDENTS.
- ⑩ TO CONDUCT SEMINARS, GUEST LECTURES AND CME TO IMPART THE INTERDISCIPLINARY NATURE OF BIOCHEMISTRY.
- ⑩ TO PROVIDE QUALITY CLINICAL CHEMISTRY LABORATORY SERVICES.



HISTORY OF THE DEPARTMENT

UNDERGRADUATE COURSE - M.B.B.S.(2005)
BDS (1992)
BSc Nursing

POST GRADUATE COURSE - M.D.(BIOCHEMISTRY)2011
MDS

DIPLOMA COURSES - DMLT, CERTIFICATE COURSE FOR
OT TECHNICIANS



Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Name of faculty	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	03	03
Associate Professor/Reader	01	01	01
Assistant Professor	02	03	03
Lecturer	-	-	-
Tutor / Clinical Instructor	04	09	09
Senior Resident	-	-	-



Faculty profile - adequacy and competency of faculty

Name of faculty	Qualification	Designation	Specialization	No. of Yrs of Experience	Research Guidance
Dr.H.V.Shetty	MD Biochemistry	Prof & HOD	MD Biochemistry	32 years 1mths	10 yrs
Dr.S.M.R.Usha	MD Biochemistry	Professor	MD Biochemistry	15 years	3 yrs
Dr.K.S.Priyadarshini	MD Biochemistry	Professor	MD Biochemistry	10 years	2 yrs
Dr.C.M.Bindu	MD Biochemistry	Assoc.Professor	MD Biochemistry	8 years	
Dr.N.Chandrika	MD Biochemistry	Assist.Professor	MD Biochemistry	3 years 2mths	
Dr..Deepti Gupta	MSc,PhD Med Biochem	Assist.Professor	MSc,PhD Medical Biochem	4 years 6 mths	
Ms.H.G.Sowrabhi	MSc. Medical Biochemistry	Assist.Professor	MSc. Medical Biochemistry	3 years 3mths	
Dr.R.Reena	M.B.B.S	Tutor	M.B.B.S	2 years 6 mths	
Dr.K.S.Manjula	M.B.B.S	Tutor	M.B.B.S	2 years 6 mths	
Dr.M.Deepa	M.B.B.S	Tutor	M.B.B.S	1 year 6 mths	
Dr.V.Mamatha	M.B.B.S	Tutor	M.B.B.S	1 year 6 mths	
Dr.Manjula.H S	M.B.B.S	Tutor	M.B.B.S	6 mths	
Dr.Vijayalakshmi.P	M.B.B.S	Tutor	M.B.B.S	6 mths	
Dr.Varsha Mohan	M.B.B.S	Tutor	M.B.B.S	6 mths	
Dr Victoria	M B B S	Tutor	M B B S	6 mths	



Diversity of staff

Percentage of faculty who are graduates of the same university	Percentage of faculty who are graduates from other universities within the State	Percentage of faculty who are graduates from universities from other States	Percentage of faculty who are graduates from universities outside the country
57 %	14 %	29 %	Nil

ACHIEVEMENTS OF THE FACULTY



DR H.V.SHETTY, M.D., PROFESSOR AND HEAD.

- MEMBER OF THE BOARD OF STUDIES FOR UNDERGRADUATES OF R.G.U.H.S, BANGALORE.
- MEMBER OF THE BOARD OF STUDIES FOR POSTGRADUATES OF R.G.U.H.S, BANGALORE.
- PANEL MEMBER, SYLLABUS FOR M.D., BIOCHEMISTRY, R.G.U.H.S, BANGALORE.
- EXAMINER FOR M.B.B.S, B.D.S., M.Sc, AND M.D., BIOCHEMISTRY.
- WORKED AS L.I.C. MEMBER FOR STARTING PhD, COURSES AT FATHER MULLER MEDICAL COLLEGE, MANGALORE BY R.G.U.H.S.
- LIFE MEMBER OF MEDICAL BIOCHEMISTS OF INDIA, IMA,ACBI AND ORGANISING MEMBER OF ACBICON 2004 CONFERENCE BANGALORE.
- SET THE UNIVERSITY QUESTION PAPERS FOR UNDERGRADUATES AND POSTGRADUATES.
- PG GUIDE FOR 4 M.D, BIOCHEMISTRY STUDENTS AT SRI DEVARAJ URS MEDICAL COLLEGE, KOLAR & NOW GUIDING 3 STUDENTS.
- CHAIRED SCIENTIFIC SESSIONS IN INTERNATIONAL COFERENCE



Dr. S.M.R. USHA M.D., PROFESSOR OF BIOCHEMISTRY



- MEMBER OF MEDICAL BIOCHEMISTS OF INDIA, IMA.
- EXAMINER FOR M.B.B.S, B.D.S., OF RGUHS & OTHER UNIVERSITIES
- TRAINED IN LABORATORY QUALITY MANAGEMENT & INTERNAL AUDIT
- ACTIVELY INVOLVED IN RESEARCH ACTIVITIES.
- ATTENDED CMEs PROGRAMMES IN VARIOUS INSTITUTIONS
- APPROVED GUIDE FOR PG STUDENTS
- CHAIRED SCIENTIFIC SESSION IN INTERNATIONAL COFERENCE



Dr K.S.PRIYADARSHINI M.D., PROFESSOR OF BIOCHEMISTRY



- **EXAMINER FOR M.B.B.S, and B.D.S., OF RGUHS & OTHER MEDICAL UNIVERSITIES.**
- **ACTIVELY INVOLVED IN RESEARCH ACTIVITIES.**
- **PARTICIPATED IN TRAINING OF TRAINERS WORK SHOP AT RRMCM & H, BANGALORE.**
- **APPROVED GUIDE FOR PG STUDENTS**
- **CHAIRMAN SCIENTIFIC SESSION IN INTERNATIONAL CONFERENCE**



Dr C.M. BINDU M.D., ASSOCIATE PROFESSOR OF BIOCHEMISTRY



- ⑩ **EXAMINER FOR M.B.B.S, and B.D.S., OF RGUHS & OTHER MEDICAL UNIVERSITIES.**
- ⑩ **ACTIVELY INVOLVED IN RESEARCH ACTIVITIES.**
- ⑩ **PARTICIPATED IN TRAINING OF TRAINERS WORK SHOP AT RRMCH & H, BANGALORE.**
- ⑩ **P.S.MURTHY AWARD FOR BEST PAPER AT 31ST ACBICON AT J.N.M.C, BELGAUM IN 2005.**
- ⑩ **CHAIRMAN SCIENTIFIC SESSION IN INTERNATIONAL CONFERENCE**



Dr. CHANDRIKA M.D; ASSISTANT PROFESSOR OF BIOCHEMISTRY



- ⑩ **ACTIVELY INVOLVED IN RESEARCH WORK**
- ⑩ **MEMBER OF AMBICON, KARNATAKA CHAPTER**
- ⑩ **COMPARATIVE STUDY OF SERUM FERRITIN LEVELS AFTER ORAL SUPPLEMENTATION WITH FERROUS SULPHATE AND CARBONYL IRON IN MILD IRON DEFICIENCY ANEMIA IN PREGNANCY -**

This is published in International journal of Biological and Chemical Sciences. 4(2) : 362-370, April 2010

- ⑩ **FIRST RANK IN M.D, BIOCHEMISTRY**



Dr. DEEPTI GUPTA ,PhD;(Med. Biochemistry)
ASSISTANT PROFESSOR OF BIOCHEMISTRY



- ⑩ ACTIVELY INVOLVED IN RESEARCH WORK**
- ⑩ LIFE MEMBER OF ASSOCIATION OF CLINICAL BIOCHEMIST OF INDIA**

Study of Lipid Profile, Copper, Ceruloplasmin & ascorbic acid in patients with thyroid Dysfunction"

Awarded best Poster at ACBICON Patna 2005



MISS SOWRABHI ,M.Sc;(Med. Biochemistry)
ASSISTANT PROFESSOR OF BIOCHEMISTRY



⑩ ACTIVELY INVOLVED IN RESEARCH WORK



Academic support staff (technical) and administrative staff in the department

Support staff	Sanctioned	Filled	Actual
Technician	04	04	04
Store Keeper/Clerk	01	01	01



NON-TEACHING STAFF

COMPUTER OPERATOR	1
TECHNICIANS	4
ATTENDER	2
SWEEPER	2



FACILITIES FOR TEACHING LEARNING PROCESS

Infra Structure of the Biochemistry Department:

1. STUDENTS PRACTICAL HALL	320- Sq mts
2. TWO DEMONSTRATION ROOMS	52- Sq mts
3. PREPARATION ROOM	26- Sq mts
4. RESEARCH LABORATORY	52- Sq mts
5. STORE ROOM	52- Sq mts
6. PROFESSOR & HOD	18- Sq mts
7. PROFESSOR	2x15- Sq mts
8. ASSOCIATE PROFESSOR	15- Sq mts
9. ASSIST-PROFESSOR S	18- Sq mts
10. TUTORS	18- Sq mts
11. OFFICE ROOM	18- Sq mts



Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from universities outside the State	% of students from other countries
MBBS(2013-2014 batch)	58.6%	41.3 %	0.05 %

	M	F	SS		OS		OC	NRI		DA
			M	F	M	F	-	M	F	
Name Total UG students=150	60	82	29	59	34	28	-	3	5	-
Total PG students		9								
I year		5								
II year		2								
III year		2								



DEPARTMENT HAS FACILITIES FOR

- TRAINING U.G. AND P.G. STUDENTS
- RESEARCH
- CLINICAL BIOCHEMISTRY LABORATORY



TRAINING FACILITY FOR UNDERGRADUATES

- **COMMON LECTURE HALL WITH 300 CAPACITY WITH AV AIDS**
- **PRACTICAL HALL WITH ALL REQUIRED FACILITIES AS PER MCI NORMS**
- **DEMONSTRATION ROOM WITH AUDIO VISUAL FACILITY AND PROVISION FOR INTERACTIVE TEACHING LIKE SEMINARS & TUTORIALS**



TEACHING METHODOLOGY

- **Didactic Lectures**
- **Problem based learning**
- **Lecture cum Demonstration**
- **Demonstration**
- **Practicals**
- **Group Discussion**
- **Integrated Teaching**
- **Tutorial classes : Small group Teaching done with teacher students ratio of 1:10.**
- **Periodical tests conducted during this teaching and evaluated and discussed individually with students**



Power point presentations

11.	Metabolism of aromatic amino acids	Dr. Priyadarshini
12.	Metabolism of sulfur containing amino acids	Dr. Priyadarshini
13.	Metabolism of acidic amino acids	Dr. Priyadarshini
14.	Metabolism of serine	Dr. Priyadarshini
15.	Metabolism of Heme	Dr. Priyadarshini
16.	Chemistry of Proteins	Dr. H.V.Shetty
17.	Enzymes	Dr. H.V.Shetty
18.	Factors affecting enzyme activity	Dr. H.V.Shetty
19.	Plasma proteins	Dr. Deepti Gupta
20.	Immunoglobulins	Dr. Deepti Gupta
21.	Water and electrolyte balance	Dr. Deepti Gupta
22.	Lab work up for interns	Dr. H.V.Shetty

Department of Biochemistry

Power point presentations



Sl.No.	Topics	Authors
1.	Biological Oxidation	Dr. H.V.Shetty
2.	Digestion and absorption of Proteins	Dr. Deepti Gupta
3.	Digestion and absorption of carbohydrates	Dr. Deepti Gupta
4.	Digestion and absorption of carbohydrates	Dr. Deepti Gupta
5.	Glycolysis	Dr. Priyadarshini
6.	TCA cycle energetics	Dr. Priyadarshini
7.	Gluconeogenesis	Dr. H.V.Shetty
8.	Fatty acid oxidation, Ketogenesis, Obesity	Dr. H.V.Shetty
9.	Metabolism of lipoproteins Part I, II and III	Dr. H.V.Shetty
10.	Urea cycle	Dr. H.V.Shetty

Demonstration room



Practical hall





PRACTICAL HALL



Student Welfare Programmes

- Mentorship Programmes – [Mentors list](#)
- Underperformers counselling Programmes - [Annexure -x](#)
- Continuous Progressive Assessment (CPA)
- Student Projects



List of Undergraduate students project

- Study of lipid profile in medical students
- Comparative study of ionic and total calcium in hypothyroidism and hyperthyroidism.
- Study of fasting and postprandial triglyceridemia in medical students.
- Study of serum Transaminases in Type 2 Diabetes Mellitus
- Anemia in obesity
- Estimation of Zinc in Type 2 Diabetes Mellitus



Examination System:

**Annual University Examinations are conducted
at the end of one year for the 1st MBBS students.**



Result data of last 5 years

Year of exams	Total. No. Appeared	Total. No. passed	Total. No. failed	%.pass	%.fail
2008-09	90	55	45	61	39
2009--10	95	45	50	47	53
2010--11	91	36	55	39	61
2011-12	73	44	29	60	40
2012-13	144	55	89	38	62



TRAINING FACILITY FOR POSTGRADUATES

- WELL EQUIPPED CENTRAL AND DEPARTMENTAL LIBRARY
- EQUIPMENTS AVAILABLE FOR POST GRADUATE RESEARCH LABORATORY
- SEMINAR HALL AVAILABLE FOR INTERACTIVE DISCUSSION



INSTRUMENTS AVAILABLE IN CLINICAL BIOCHEMISTRY

LABORATORY OF THE HOSPITAL

- **THREE AUTO ANALYZERS**
- **TWO SEMI AUTO ANALYZERS**
- **ELISA WITH READER AND WASHER**
- **THREE ELECTROLYTE ANALYZERS**
- **SPECTROPHOTOMETER**
- **AUTOMATED ELECTROPHORESIS**

Autoanalyser



ELISA Analyzer





❖ Hospital Laboratory



CENTRAL LIBRARY

Total number of books available	-	12557
Books pertaining to Biochemistry	-	737
Number of titles in Biochemistry	-	101

CENTRAL LIBRARY JOURNALS



Number of Indian Journals	-	70
Number of International Journals	-	63
Number of Biochemistry Journals	-	5
⑩ Indian Journals	-	4
⑩ Foreign Journals	-	1



e - JOURNALS

Rajiv Gandhi University of Health Sciences (RGUHS)
Bangalore

- ⑩ Access through HELINET facility available
- ⑩ Number of e-journals - 511
- ⑩ Biochemistry related journals - 11



DEPARTMENTAL LIBRARY

**DEPARTMENT LIBRARY HAS BOOKS FOR THE USE OF
STAFF & POST GRADUATES STUDENTS.**

**BIOCHEMISTRY
&
ALLIED BOOKS**

142 BOOKS WITH 101 Titles

Department Library





PG DEVELOPMENT PROGRAMMES

- Journal Club – Annexure XI
- Participating in teaching learning methodology workshops
- Participation in CMEs
- Participation in regional and national conferences
- Presenting seminars - Annexure XIII



RESEARCH

**THE DEPARTMENT IS ACTIVELY
INVOLVED IN RESEARCH ACTIVITIES**

List of titles of faculty research - [Annexure XII](#)

List of Publications – [Annexure XVIII](#)

List of completed projects – [Annexure XXIV](#)

INTERNATIONAL RESEARCH COLLABORATION



Dr. H V Shetty, MD, Co-Principal Investigator

Project Title : A study of feasibility of a retrospective cohort study on Low birth weight, rapid catch – up growth and selected cardiovascular risk factors among children and young adults in Karnataka, South India.

Collaborating : West Midlands ethnic minority Liaison committee-community interest company (WELCOME-CCI) and department of community medicine of Rajarajeswari medical college, Bangalore, India.

Principal investigator: Dr. Pradeep Banandur, MD MPH, Associate Professor, Department of Community Medicine Rajarajeswari medical college, Bangalore, India.

Project Supervisor and Co-Principal Investigator: Dr. Anandagiri Mshankar, MD, MPH, MFPH, Consultant in Community Disease control, Norfolk, Suffolk and Cambridgeshire Health Protection Unit, United Kingdom and member WELCOME-CIC.

Department of Biochemistry
Poster and Paper presentations
Post graduate student Dr. Manjula K.S



SL.No.	Date	Poster/Paper
1	4 th August 2012	Poster on Study of Transaminases in Thyroid Disorders International Medical Sciences Academy conference
2	12 th December 2012	Poster on Study of serum Transaminases in Hypothyroidism 39 th ACBICON 2012 at Ranchi
3	10 th February	Measures to avoid Pre analytical Errors in Laboratory Medicine



Department of Biochemistry
Poster and Paper presentations
Post graduate student Dr. Reena R.

Sl.No.	Date	Posters/papers
1	4th August 2012	Poster on Study of Creatinine kinase and Lactate Dehydrogenase in Thyroid Disorders International Medical Sciences Academy conference (IMSA)
2	12th December 2012	Paper presented on Study of serum CK and LDH in Hypothyroidism 39th annual conference of ACBI 2012 at Ranchi
3	10th February	Free Radicals and Anti oxidants Indian Medical Association annual Conference

Department of Biochemistry
Poster and Paper presentations
Post graduate student Dr. Mamata



SL.No.	Date	Poster/Paper
1	14/09/2013	Poster on – “Evaluation of the changes in glycated haemoglobin and lipid parameters in Type II Diabetes Mellitus”.- 1 st state level conference – JJMMC AMBKCCON 2013.
2	06/10/2013	Poster on- “Study of changes in the concentration of serum zinc and HbA1c levels in Type II Diabetes Mellitus patients”. 31 st annual conference cum convocation – International medical sciences academy- IMSACON 2013 in association with Rajarajeshwari medical college and hospital.



Department of Biochemistry
Poster and Paper presentations
Post graduate student Dr. Deepa M

SL.No.	Date	Poster/Paper
1	14TH SEPTEMBER 2013	Poster presented on-“Significance of measuring Non-HDL-Cholesterol among patients with type 2 diabetes mellitus”. 1st state level conference-JJMMC AMBKCCON 2013.
2	6TH OCTOBER 2013	Poster presented on-“Study of serum Gamma Glutamyl Transferase as an oxidative stress marker in Non-Alcoholic fatty liver disease (NAFLD)”. 31st annual conference cum convocation –International medical sciences academy-(IMSACON2013) in association with Rajarajeswari medical college & hospital.

RAJARAJESHWARI MEDICAL COLLEGE & HOSPITAL
DEPARTMENT OF BIOCHEMISTRY



List of Dissertation topics

Post graduates – 2012 - 2015

1. Dr. V. Mamatha

A study of G6PD, zinc and HBAIC levels in type 2 diabetes mellitus patients at RRMC& H

2. Dr. Deepa. M

Study of serum lipid profile and liver enzymes in Ultrasound diagnosed cases of Non Alcoholic fatty liver disease (NAFLD).

Post graduates – 2011 – 2014

3. Dr. Reena. R

Study of serum paroxonase & myeloperoxidase activities & malondialdehyde levels in preeclampsia

4. Dr. Manjula . K.S

Study of serum ferritin & Glycated hemoglobin levels in type II DM



RAJARAJESHWARI MEDICAL COLLEGE & HOSPITAL
DEPARTMENT OF BIOCHEMISTRY
List of Dissertation topics

Post graduates – 2013 -2016

1.Dr Manjula H S

Study of vitamin D and uric acid levels in patients with hypertension.

2.Dr.Vijayalakshmi P

Study of serum cystatin C in pre-eclampsia.

3.Dr.Victoria Kshetrimayum.

Study of hs-CRP and insulin levels in hypothyroidism.

4. Dr.Varsha Mohan.

Study of Serum electrolytes levels during nebulised salbutamol therapy.

5. Dr. Nandini. M D

Study of Homocysteine levels in pre – eclampsia.

CLINICAL BIOCHEMISTRY LABORATORY



RRMC & HOSPITAL

**The lab is equipped to perform routine
and
Special Investigations**

EMERGENCY INVESTIGATIONS ARE DONE 24 HOURS

Approximately 72000 investigations are carried out per month



LINK WITH OTHER INSTITUTIONS

OUR INSTITUTION IS ATTACHED TO

- CMC : VELLORE
- BIO-RAD: USA

FOR QUALITY ASSURANCE PROGRAMMES



Department of Clinical Biochemistry
Christian Medical College, Vellore - 632 004

**ACBI / CMC EXTERNAL QUALITY
ASSURANCE SCHEME**

Certificate of Participation

This is to certify that
RAJARAJESWARI MEDICAL COLLEGE & HOSPITAL

.....
BANGALORE.
.....

Lab No. 3674 has participated
in the Chemistry Program
of the External Quality Assurance Scheme
during the year 2012.

Dr. R. Selvakumar M.Sc., Ph.D
Prof. & Head of Clinical Biochemistry

VELLORE
January 2013



CME Programmes Conducted at Rajarajeswari Medical College, Bangalore(contd.)



4	20/04/2012	Quiz	Dr.Venkatesh Thuppil Director NRCLPI, Department of Biochemistry ,St.John's Medical College, Bangalore	Translational Research and project lead safe
5	26/03/2013	Laboratory workup	Dr H.V. Shetty, Professor and HOD, Biochemistry RRMC&H,Bangalore.	Laboratory workup for Interns
6	12/12/2013	Mass spectrometry	Dr. Rita Christopher Professor and HOD, Department of Neurochemistry, NIMHNAS, Bangalore	Inborn errors of metabolism and recent advances in screening methods.



CME Programmes Conducted at Rajarajeswari Medical College, Bangalore

Sl. No	Date	CME	Speaker	Topic
1	07/082009	Changing Trends with Newer Concepts in field of Pharmacology, Physiology, Biochemistry and General Medicine	Dr H.V. Shetty, Professor and HOD, Biochemistry RRMC&H, Bangalore.	Lipoproteins in health and Diseases
2	09/12/2011	Evaluation of Pediatric renal disorders	Dr H.V. Shetty, Professor and HOD, Biochemistry RRMC&H,Bangalore.	Evaluation of Pediatric renal disorders with urine examination
3	20/04/2012	Lead safe	Dr.Venkatesh Thuppil Director NRCLPI, Department of Biochemistry ,St.John's Medical College ,Bangalore	Translational Research and project lead safe



CME ON TRANSLATIONAL RESEARCH AND PROJECT LEAD SAFE



**DR.H.V.SHETTY HEAD OF THE DEPARTMENT OF
BIOCHEMISTRY, ADDRESSING THE GATHERING**



**DR.VENKATESH THUPPIL – GUEST SPEAKER
LEAD MAN OF INDIA**



**DR.H.V.SHETTY HEAD OF THE DEPARTMENT OF
BIOCHEMISTRY PRESENTING A BOUQUET TO
DR. VENKATESH THUPPIL**



Inborn Errors of Metabolism: Recent advances in screening



Dr. Rita Christopher
National Institute of Mental Health & Neuro Sciences
Bangalore 560029

CME ON INBORN ERRORS OF METABOLISM



**DR.H.V.SHETTY HEAD OF THE DEPARTMENT OF
BIOCHEMISTRY
WELCOMING DR.RITA CHRISTOPHER**



**DR.RITA CHRISTOPHER GUEST SPEAKER
PROFESSOR AND HOD OF NEUROCHEMISTRY
NIMHANS**



DR. PRABHUDEVA, SPECIAL OFFICER PRESENTING A BOUQUET TO THE SPEAKER



AUDIENCE IN THE CME PROGRAMME



ADDITIONAL FEATURES

- **ALL DOCUMENTATION IN ORDER FOR EASIER ACCESS.**
- **THIS IS ACHIEVED BY THE USE OF APPROPRIATE PROCEDURE.**
- **DEPARTMENT PROVIDES EXCELLENT ATMOSPHERE FOR THE FACULTY AND STUDENTS FOR INTERACTIVE AND ENJOYABLE LEARNING**



STRENGTHS

- Well qualified and experienced staff
- State of art Laboratory to promote patient service and research.
- Collaboration with other agencies (CMC, Vellore and BioRad, USA) for quality assurance programmes.
- Post graduate department with nine enthusiastic PGs
- Mentorship programmes for student welfare.



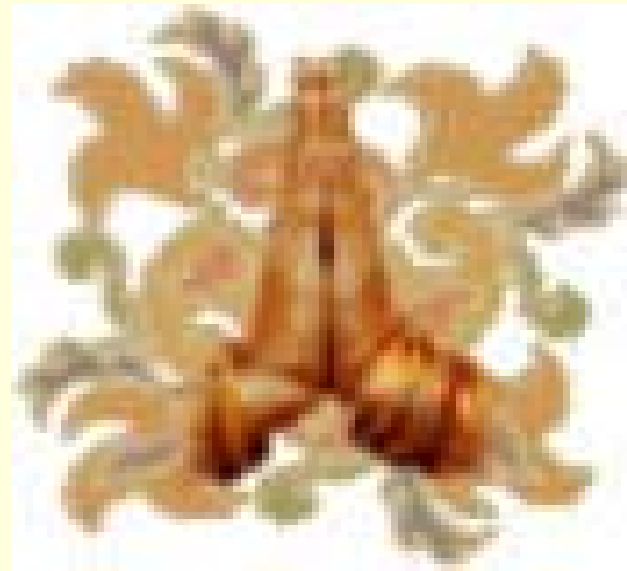
OPPORTUNITIES

- For inter departmental collaboration in academics and research
- For the PGs and faculty to avail Hi-Tech instrument facilities (CLIA, HPLC etc)
- Opportunity for research for PGs and faculty in a Hospital with ultra modern facilities with good patient input.
- Opportunity to get ICMR project with existing facilities



CHALLENGES

- To set up Molecular Biology laboratory
- To meet the goal set by us for the next five years
- To meet excellence in service, research and education at subsidised cost.
- Preparedness in the Clinical Biochemistry Laboratory to overcome the newly emerging diseases in the community



THANK YOU