

3.8

Department of Medical Biochemistry

1. Name of the Department : Department of Medical Biochemistry
2. Year of establishment: 2005
3. Is the Department part of a School/Faculty of the university? :
Yes, School of Health Sciences.
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):
PG and Ph.D
(1) M.Sc. Medical Biochemistry
(2) Ph.D. Medical Biochemistry
5. Interdisciplinary programmes and departments involved : Nil
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
Yes.
Collaboration with MOU (1). Malabar Cancer Centre, Thalassery, Kannur District.
(2). Pariyaram Medical College, Kannur District.
7. Details of programmes discontinued, if any, with reasons: Nil.
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
: CBCSS
9. Participation of the department in the courses offered by other departments. : Nil.
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	Nil	Nil	Nil
Associate Professor	1	Nil	Nil
Asst .Professor	2	Nil	Nil
Others	Nil	Nil	Nil

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance
Department of Medical Biochemistry

Name	Qualification	Designation	Specialisation	No. of years of experience	No. of Ph.D./M.Phil students guided for the last 4 years
Faizal P.	M.Sc.	Director in charge, Assistant Professor (On contract) Course Co-ordinator in Medical Biochemistry	Medical Biochemistry	8	Nil
Suneesh K.	M.Sc.	Assistant Professor (on contract)	Medical Biochemistry	7	Nil

Shyni K.T.	M.Sc.	Assistant Professor (on contract)	Medical Biochemistry	6	Nil
Rachana Raveendran	M.Sc.	Assistant Professor (on contract)	Medical Biochemistry	3	Nil
Jamshira.P.K	MSc	Assistant Professor (on contract)	Medical Biochemistry	1	Nil

Common faculties for the Department of Medical Microbiology and Medical Biochemistry

Name	Qualification	Designation	Specialization	No.of years of experience	No.of Ph.D/M.Phil.stud ents guided for the last 4 years
Dr. Sheeja V.	BHMS	Assistant Professor (On contract)	BHMS	4	Nil
Prajisha P.	M.Sc.	Assistant Professor (On contract)	Medical Physiology		Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors (Common to three departments under the school)
Senior Visiting Fellows: Dr. Sathees. C. Raghavan, Dept of Biochemistry, Indian Institute of Science, Bangalore.
Dr. Radhakrishnan R., Scientist E, RGCB, Trivandrum
13. Percentage of classes taken by temporary faculty – programme-wise information :5%
14. Programme-wise Student Teacher Ratio : 14:1 (Dept. of Medical Biochemistry)
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Academic support staff (technical) : 1(on contract, Sharing basis)
Administrative staff : 1(common on sharing basis)
16. Research thrust areas as recognized by major funding agencies : Nil
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil
18. Inter-institutional collaborative projects and associated grants received
a) National collaboration : Research Programmes in Collaboration with Malabar Cancer Centre, Kannur Medical College, Co-operative Medical College, Cochin , Kerala
b) International collaboration : Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :Nil
20. Research facility / centre with
 - state recognition
 - national recognition
 - international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
22. Publications:
 - Number of papers published in peer reviewed journals (national / international) : 6
Department of Medical Biochemistry - 6
 - Monographs : Nil
 - Chapters in Books
 - Edited Books
 - Books with ISBN with details of publishers:
Dr. K.T. Augusti, Faizal P., Suneesh K., 'Role of dietary fibres and nutraceuticals in preventing diseases,' ISBN 978-81-88449-72-5, Hyderabad, India, 2009, First edition.
 - Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil
 - Citation Index – range / average *
 - SNIP
 - SJR
 - Impact Factor – range / average : < 5.0
 - h-index
23. Details of patents and income generated : Nil
24. Areas of consultancy and income generated : Laboratory Medicine
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil
26. Faculty serving in :
 - a) National committees : Nil
 - b) International committees : Nil
 - c) Editorial Boards : Nil
 - d) any other (please specify) : Examinership of other universities (Faizal P., Rachana Raveendran).
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): Nil
28. Student projects
 - percentage of students who have done in-house projects including inter-departmental projects :
Dept. of Medical Biochemistry : 5%
 - percentage of students doing projects in collaboration with other universities / industry / institute
Dept. of Medical Biochemistry : 95%
29. Awards / recognitions received at the national and international level by
 - Faculty
 - Doctoral / post doctoral fellows
 - Students

Department of Medical Biochemisry

 - (1) Mohind C. Mohan - JRF
 - (2) Sibin M.K. - JRF
 - (3) Jitheesh K. - JRF
 - (4) Haritha P.V. - JRF
 - (5) Sruthi P.K. - NET – Lecturership.

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any

Sl.No.	Name of the Seminar/Conferences/Workshop	Date &Year
1.	Recent Advances in Biomedical Sciences. (Kannur University, KSCSTE Govt. of Kerala)	17,18 – 04 - 2008
2.	Emerging Trends in Clinical Laboratory Medicine. (Self funded)	13 - 11- 2010
3.	Recent approaches in cancer therapy – prospects & challenges. (Self funded)	13 - 2- 2013

31. Code of ethics for research followed by the departments :
A human ethical committee is functioning at the department as per the guidelines of Indian Council for Medical Research, New Delhi.
32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)		Applications Received	Selected		Pass percentage	
			Male	Female	Male	Female
MSc Medical Biochemistry	Cyr-1	120	1	13	--	--
	Cyr-2	116	1	15	--	--
	Cyr-3	80	4	12	--	--
	Cyr-4	135	0	16	--	93.75
	Cyr-5	130	1	16	100	93.75

33. Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc. Medical Biochemistry	Cyr-1	93.75%	0%	6.25%	Nil
	Cyr-2	58%	26.3%	15.7%	
	Cyr-3	75%	16.6%	8.4%	
	Cyr-4	60%	33%	7%	
	Cyr-5	77%	23%	0%	

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.
JRF – 4, NET -1
35. Student progression

Student Progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	Dept. of Medical Biochemistry 4 %
Ph.D. to Post-Doctoral	
Employed	No Campus Selection process 85 %
▪ Campus Selection	
▪ Other than campus recruitment	
Entrepreneurs	Nil

36. Diversity of staff

Percentage of faculty who are graduates	
Of the same university	20%
From other universities within the State	80%
From universities from other State from	Nil
Universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

- Library :Number of Books in the Departmental Library -453
: Number of Journals/Periodicals in the departmental library – 2
- Internet facilities for staff and students :Wi-Fi connectivity
- Total number of class rooms :7
- Class rooms with ICT facility: 7 Classroom with ceiling mount projection system.
- Students' laboratories :6
- Research laboratories :1

39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university
Dept. of Medical Biochemistry - 2
- from other institutions/universities
Dept. of Medical Biochemistry - 7

40. Number of post graduate students getting financial assistance from the university. : Nil.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :NA

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
: Yes, the Department utilizes the feedback for syllabus revision and for teaching methodology upgradation.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
: Yes, the feedback is utilized by rectifying the anomalies if any cited for continual improvement.
- Alumni and employers on the programmes offered and how does the department utilize the feedback?
Yes, Feedback is utilized for incorporating revisions in the syllabus by including recent advances in the biomedical field

43. List the distinguished alumni of the department (maximum 10)

Sl. No.	Name	Batch	Current Profile
1.	Sibin M. K.	2007-10	JRF, NIMHANS, Bangalore.
2.	Jithesh K.	2007-10	Ph.D. Research Scholar in NCBS-TIFR, Bangalore.
3.	Grace Raji R.	2007-10	Ph.D. Scholar at Central University of Kerala.

4.	Riyas M.T.	2006-0	Laboratory Technologist, Ministry of Defence, UAE
5.	Reshmi P.V.	2007-10	NCBS, PUNE

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Sl. No.	Name of Programme and Year	Name of Expert
1.	Dr. P.C Ravindran Memorial Oration,2014.	Dr. Radhakrishnan. R, Scientist E1, Rajiv Gandhi Center for Biotechnology, Trivandrum
2.	Research Methodology workshop,2014.	Dr. Subramaniam, Former Director, TBGRI, Thiruvananthapuram
3.	Demystifying the secrets of Immunology,2014.	Dr.Suresh .S.,Biochemist, Govt Medical College Thrissur.

45. List the teaching methods adopted by the faculty for different programmes.:

Interactive teaching methods using visual presenters and over head projectors

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? :

By continuous evaluation,Assignments,Seminars and Test papers.

47. Highlight the participation of students and faculty in extension activities. Students get participated in the community extension activities and health awareness programmes conducted by the departments

48. Give details of “beyond syllabus scholarly activities” of the department. : Community Extension activity:

(1).Health Awareness Camp on “Life Style Diseases”

(2). Blood Donation Camp

(3).Collaborative research project work with Dept. of Applied economics, Kannur University (Funded by ICMR) to study the nutritional deficient anaemias among tribes in Idukki and Wayanad District, Kerala.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. :

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

School of Health Sciences comprises of three independent departments viz Medical Biochemistry, Medical Microbiology and Medical Laboratory Technology. Two departments of the School of Health Sciences, Medical Biochemistry and Medical Microbiology have been approved as Research Centres by the university.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

This is the only University Department in Kerala offering Medical Biochemistry programme. Well trained faculties are handling the classes. Well equipped labs provide sufficient practical knowledge to the students.

Weaknesses

No permanent staff members are there in the department. Non availability of adequate non teaching staff is another impediment. Smart classrooms are required with modernization of existing laboratories.

Opportunities

Students completing their courses from the centre are placed in various research institutions, Medical Colleges, Dental colleges, Hospitals, Science colleges and Diagnostic centres within and outside the country. The support that is extended to the maintenance of the health care to the society is one another strength.

Challenges

The continuous demand from the public for conducting health awareness programmes and body fluid analysis cannot be fulfilled due to shortage of adequate funds.

52. Future plans of the Department.

Short term training programmes and symposia cum workshop in recent advancements in scientific and medical research, viz., Molecular biology, laboratory medicine, etc., are proposed to be conducted. Additional interdisciplinary courses namely post graduate diploma course in Molecular Techniques of one year duration for researchers in Medicine and allied Medical Sciences is proposed.

Proposal for expanding research facility in recently developing areas of different disciplines in Health Sciences is identified.