



Sri Ramachandra Medical Centre
Department of Biochemistry

The Department of Biochemistry, Sri Ramachandra Medical College and Research Institute is pleased to announce the admission to Fellowship programme in “**Clinical chemistry and Molecular biology**”.

Course Details :

1. Fellowship in Clinical chemistry and Molecular biology:

Qualification: : Post MD (Biochemistry)/ DNB (Biochemistry), MD (Lab Medicine), MD (Pathology), MD (Microbiology), MSc (Medical Biochemistry)

Number of seats : 2

Course Duration : 6 months

Course Fee : Rs. 20,000 plus GST 18 % (Twenty three thousand six hundred Only)

Stipend : Non –Stipend

Training timings : 8.00am to 4.00pm

Attendance requirement for examination : 90%

Course commences on 11th July 2019

Those interested may kindly submit their CV and application form to the below address

The Medical Director

Sri Ramachandra Medical Centre (OR)
Porur, Chennai-116
Ph: 044-45928552 (8- 4pm)

Dr M.Ganesh

Professor & Head of the Department,
Department of Biochemistry
Sri Ramachandra Medical College & Research
Institute, Porur,
Chennai- 600116.
Ph: 044-24768027/28 Ext.216 (8- 4pm)

Website: www.sriramachandra.edu.in

Email: medicaldirector@sriramachandra.edu.in /hod.biochemistry@sriramachandra.edu.in

*** The dates of the interview will be announced at the time of due course**

Course Overview

The Department of Biochemistry, Sri Ramachandra Medical College and Research Institute is pleased to announce the admission to Fellowship programme in “Clinical chemistry and Molecular biology”. Currently, Clinical Biochemistry and Molecular Biology are at the epicentre of laboratory medicine. This program aims to provide the fellows with the opportunity to become knowledgeable and competent clinical biochemists, with the skills required to be both an effective consultant for clinical colleagues and a competent Clinical Biochemistry laboratory professional.

The Clinical Biochemistry and Molecular biology fellowship provides in-depth training in all aspects of clinical biochemistry and Molecular biology at Sri Ramachandra Medical College and Research Institute, which includes general clinical chemistry, molecular diagnostics, immunology, endocrinology and tumor markers. The fellows also will gain general knowledge in microbiology, pathology and Transfusion medicine. The fellow will learn testing procedures (specimen collection and processing), methodology, and clinical correlation of testing. The fellow will also develop skills in management and will gradually assume greater responsibilities in the clinical service laboratories.

The department of Biochemistry serves the scientific community through leadership roles and active participation in national and international conferences. Department faculty encompasses NABL assessors, members of editorial boards of national and international journals, as well as members of advisory boards and scientific committees in various private and government institution. Faculty in the department provide research strength in many arenas of biochemistry. The Department is also committed to serve the community by participating in a variety of outreach events to promote awareness to public health.

Aim of the course:

At the end of the program the participant will be able to

- Acquire knowledge and skills in instrumentation in clinical Laboratory including Molecular Biology
- Acquire skills in maintaining quality control system
- Acquire skills and attitude in interpretation of laboratory reports

Objectives of the course:

At the end of the session the participant should be able to

- Discuss the principle, applications and operation of various equipments
- Interpret the test results performed in clinical laboratory
- Discuss the various causes of laboratory errors

- Describe Quality management system
- Discuss the structure of a clinical laboratory in a tertiary care setting
- Discuss the importance of laboratory information system encompassing all sections of a laboratory.

Program schedule:

- 1st to 10th weeks will be training through online study materials; MCQ tests and assignments will be conducted every fortnight. 11th and 12 weeks consist of didactic lectures followed by hands on training in the respective areas
- 13th -22nd weeks will be training through online study materials; MCQ tests and assignments will be conducted every fortnight. 23rd and 24th weeks consist of didactic lectures followed by hands on training in the respective areas

Program in detail:

- First week: Basics of preparation of solutions and buffers, centrifugation, instrumentation-routine clinical chemistry analyzer
- Second week: Spectrophotometric analysis
- Third week: Immunoassays
- Fourth Week: chromatography, Electrophoresis
- Fifth week: Clinical Pathology, Hematology
- Sixth Week: Routine Microbiology
- Seventh week: quality control system in clinical Biochemistry
- Eighth Week:; quality control system in clinical Pathology & Hematology, routine Microbiology
- 11th week & 12th week: Hands on training in Clinical Biochemistry, Clinical Pathology & Hematology
- 13th week: Laboratory Genetics - introduction : Pedigree charting, Outline of genetic tests
- 14th & 15th week: Appropriate culture techniques for submitted specimens; Principles and techniques for harvesting, chromosome banding & staining
- 16th & 17th weeks: Identify numerical and structural chromosome abnormalities, and relate their implications; FISH analysis – principle and applications; interpretation based on probe design and sample type
- 18th week : Introduction to molecular genetics and genomics; Appropriate techniques for nucleic acid isolation from submitted specimens
- 19th & 20th week: Principles and techniques for polymerase chain reaction (PCR); Targeted mutation analysis
- 21st week: Gene scanning-Know and understand principles and techniques associated with gene scanning

- 22nd week: Sanger (dideoxy) Sequencing Principles and techniques associated with dideoxy sequencing of single genes or exons
- 23rd week : Next-generation sequencing - Understand principles of exome or whole-genome analysis
- 24th week: Activities with case studies

Requirements for completion of the course :

- No exemption shall be given during the period of study
- 80% attendance for hands on training sessions. There is no condonation for lack of attendance
- 10 MCQ tests and assignments will be conducted; All tests and assignments should be attempted with minimum score of at least 80%

Log book : Every participant shall maintain

1. Reading material sent by electronic media
2. Copies of tests and assignments done
3. Information of hands on training undergone

Examination and Certification

Formative assessment: Log book maintenance, Practical and reporting skills, Case based discussions, Performance in Journal Club, Presentation in conference

Summative assessment: Theory, Viva-voce & Practical examination will be conducted at the end of the training programme

Certification: Certificate will be issued at the end of successful completion of the course

Award of Certificate

Certificate will be awarded duly signed by Head of the Department & Medical Director of Sri Ramachandra Medical Centre. This programme does not come under the purview of MCI and is not an additional registerable qualification.



Sri Ramachandra Medical Centre

Porur, Chennai - 600 116.

APPLICATION FORM FOR “Clinical chemistry and Molecular biology” 2019 - 20 Session

Affix your latest
colour Passport
size photograph
here.

(Note: Please fill in each column in your own handwriting and put a tick mark (✓) wherever necessary and strike off the portion not applicable. Incomplete application form will not be accepted).

1. a) Name of the candidate (AS PER PROVISIONAL / DEGREE CERTIFICATE IN BLOCK LETTERS)	:	
b) Expand the initials	:	
c) Complete address (with District, State & PIN CODE) to which communication is to be sent	:	
d) Phone No. with STD Code	:	Residence : Mobile : E-mail ID :
2. a) Father's Name Contact Details	:	Mobile : E-mail ID :
b) Mother's Name Contact Details	:	Mobile : E-mail ID :
c) Husband's Name Contact Details	:	Mobile : E-mail ID :
3. Sex	:	Male ☐ Female ☐

4. a) Date of birth and age	:	DD/MM/YYYY	Age:
b) Place of birth, District and State	:		
5. Qualifying examination passed. (Self attested Photocopy of the Degree certificate and Statement of Marks of all examinations to be enclosed)	:	Name of PG Degree : University Regn. No : Month : Year :	
6. a) Name and address of the Medical College where qualified	:	UG..... PG	
b) Whether the College and course is * recognized by the Medical Council of India		Yes / No	

7. a) Papers Presented :

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b) Papers Published :

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(if necessary attach separate sheet)

8. a) Whether the candidate has passed all the examinations in the first attempt	:	PG : Yes / No MBBS: Yes / No						
b) If no, how many attempts were made to pass	:	<table border="1"> <thead> <tr> <th data-bbox="836 510 1079 640">Course</th> <th data-bbox="1079 510 1458 640">No. of attempts</th> </tr> </thead> <tbody> <tr> <td data-bbox="836 640 1079 747">MBBS</td> <td data-bbox="1079 640 1458 747"></td> </tr> <tr> <td data-bbox="836 747 1079 854">PG</td> <td data-bbox="1079 747 1458 854"></td> </tr> </tbody> </table>	Course	No. of attempts	MBBS		PG	
Course	No. of attempts							
MBBS								
PG								
9. Details of Permanent Registration with the Medical Council incorporating PG qualification (Photocopy to be enclosed)	:	State : Regn. No.: Date :						

DECLARATION BY THE CANDIDATE

I declare that the information furnished by me herein are true and correct. In case any information furnished herein is found to be incorrect or any document is found to be not genuine, I agree to forego my claim for admission and abide by the decision of the Sri Ramachandra Medical Centre authorities.

I further declare that I have read the prospectus furnished with the application form fully and understood the contents therein clearly and I hereby undertake to abide by the conditions prescribed therein. I undertake to abide by the Rules and Regulation of Sri Ramachandra Medical Centre.

Place:

Signature of the Candidate

Date:

Name:

Submit online Application (with attachments) to

The Medical Director, Sri Ramachandra Medical Centre, Porur, Chennai-600116.

medicaldirector@sriramachandra.edu.in

with copies marked to

hod.biochemistry@sriramachandra.edu.in

deanoffaculties@sriramachandra.edu.in

vicechancellor@sriramachandra.edu.in

registrar@sriramachandra.edu.in