



SRI RAMACHANDRA
MEDICAL COLLEGE AND RESEARCH INSTITUTE



SILVER JUBILEE
DEPARTMENT OF BIOCHEMISTRY
2001-2026

Department of Biochemistry

Cordially Invites You to

SRMC- BioARC

(SRMC - 2nd Biochemistry Annual Revision Course)

MODE: Hybrid

From 20th April to 22nd April 2026

**Venue: Lecture hall-6, 4th floor, Medical college building,
SRMC&RI**

Organizing Chairperson

Dr. K. Sowmya

Professor and Head, Department of Biochemistry, SRMC&RI

Organising secretaries

Dr.M.Rakchna

Assistant Professor
Department of Biochemistry, SRMC&RI

Dr.E.Karthick

Senior Resident,
Department of Biochemistry, SRMC&RI

Organising Team

Department of Biochemistry, SRMC & RI

ABOUT THE DEPARTMENT

The Department of Biochemistry at **Sri Ramachandra Medical College**, established in 1985, has consistently upheld a strong tradition of academic excellence, innovation, and service. Over the decades, the department has evolved into a dynamic academic hub that seamlessly integrates teaching, research, and diagnostic expertise. With well-structured undergraduate and postgraduate programs, advanced laboratory facilities, and a dedicated team of experienced faculty, the department is committed to nurturing competent biochemists who are well prepared for academic, clinical, and research careers. The department continues to inspire lifelong learning and professional growth among its students, aligning education with the ever-evolving demands of modern medical science.

SRMC Bio-ARC 2026

Building on the success of its inaugural edition, the Department of Biochemistry proudly presents the **Second Annual Revision Course - 'SRMC Bio-ARC 2026' for postgraduates**. This program is thoughtfully designed to serve as a focused, high-yield academic experience for postgraduate students, especially those in their second and third years of training.

SRMC Bio-ARC 2026 aims to help postgraduates consolidate core concepts, strengthen applied understanding, and stay updated with contemporary developments in biochemistry. The course emphasizes clarity, integration, and relevance, bridging foundational knowledge with its real-world clinical and laboratory applications. With a balanced mix of conceptual revision, problem-oriented discussions, and practical exposure, the program encourages participants to revisit essential topics with renewed confidence and perspective. This year's edition continues the department's commitment to innovation, collaboration, and academic leadership, stimulating a learning environment that supports exam readiness as well as long-term professional competence.

TARGET PARTICIPANTS: MD & MSc Biochemistry postgraduates, Senior Residents and faculty members may also apply

PROGRAM HIGHLIGHTS

SRMC Bio-ARC 2026 is a comprehensive revision course designed to sharpen both knowledge and skills across major domains of biochemistry. Participants will revisit key areas, including **clinical biochemistry, instrumentation, molecular biology, immunology, and recent advances**, with an emphasis on concepts that are most relevant to examinations and clinical practice.

•**Risk Assessment Workshop:** Gain practical insight into identifying, analysing and minimizing errors in laboratory processes. This session strengthens understanding of quality assurance, validation, and patient safety, which are essential skills for every clinical biochemist.

•**LC-MS Case-Based Interpretation:** This workshop enhances interpretative skills, helping participants translate complex mass spectrometry outputs from the real-life case scenarios into meaningful clinical decisions.

•**DNA Isolation & Quantification:** This workshop enables the participants to understand both the principles and practical nuances of DNA extraction and measurement, crucial for genetic testing and research applications.

WHY YOU SHOULD ATTEND

- Rapid, structured revision of core biochemistry
- Strong focus on clinical and laboratory application
- Hands-on exposure to essential and advanced techniques
- Interactive learning and peer engagement
- Networking with experienced faculty and fellow postgraduates

Overall, SRMC Bio-ARC 2026 is more than a revision course, it is an opportunity to relearn, refine, and reconnect with biochemistry in a way that is meaningful, motivating, and future-focused.

“Learn, Practice, Excel and Revise, Retain, Recall – Secure your spot and join the journey today”

Note:

1. Registration fee

Online mode (Conference only) - Rs. 1800 + 18% GST

Offline mode (Conference & workshop) - Rs. 3000 + 18% GST

2. For TNMC Credit Hours Rs. 200/- (In addition to registration fees)

3. Workshop participants is restricted to maximum of 35 participants

4. Registration form link:

<https://events.sriramachandra.edu.in/SRMCBioARC2026>

5. All participants will be issued participation e-certificate

6. For enquiries contact Dr. M. Rakchna: 9952338337, Dr Karthick E: 7904916266

Email: cmesrmcbiochem@gmail.com



PROGRAM SCHEDULE
DAY-1 (20.04.2026)

Date	Time	Topic	Speaker
Day 1 20.04.2026 Monday	8:00 am – 9:00 am Registration		
	9:00 am – 9:30 am Inauguration		
	9:30 am – 10:00 am	Effect of microplastics on health & disease	Dr.M.Ganesh Professor, Biochemistry, SRMC & RI
	10:00 am – 10:30 am	Nanotechnology	Dr.Santhi Silambanan Professor, Biochemistry, SRMC&RI
	10:30 am – 10:45 am Break		
	10:45 am – 11:15 am	Trace element and heavy metal testing – AAS & ICP-MS	Dr.A.S.Meenakshi Sundaram Associate professor, Biochemistry, PSG IMSR
	11:15 am – 11:45 am	Transplant compatibility testing	Dr. Sandhya Suresh Associate professor, Nephrology, SRMC&RI
	11:45 am – 12:15 pm	Laboratory stewardship	Dr.K.Sowmya Professor & Head, Biochemistry, SRMC&RI
	12:15 pm – 1:00 pm	Sigma beyond metrics – Kaizen, DMAIC & DMADV techniques	Dr.M.Rakchna Assistant Professor, Biochemistry, SRMC&RI
	1:00 pm - 1:45 pm Lunch break		
1:45 pm - 3:45 pm	Risk assessment workshop	Dr. Anila Mathan Senior consultant, lab Haematology & Transfusion medicine, Apollo Hospitals Dr.K.Sowmya Professor & Head, Biochemistry, SRMC&RI Dr.Anjana Vinod Assistant Professor, Biochemistry, SRMC&RI	

PROGRAM SCHEDULE
Day 2 (21.04.2026)

Date	Time	Topic	Speaker
DAY-2 21.04.2026 Tuesday	8:30 am - 9:00 am	Approach to blood gas analysis and acid base disorders	Dr.Pavai Sthaneshwar Associate professor, Pathology, University of Malaya, Malaysia
	9:00 am - 9:30 am	Interferences in Immunoassay	Dr.Leena Chand Associate Professor, Biochemistry, SRMC&RI
	9:30 am - 10:00 am	Immunology - Antibody diversity	Dr.R.Soundravally Professor, Biochemistry, JIPMER
	10:00 - 10:15 am Break		
	10:15 am - 10:45 am	Endocrine disruptors	Dr.H.Nandeesh Professor, Biochemistry, JIPMER
	10:45 am - 11:15 am	Importance of Therapeutic drug monitoring	Dr.L.Karpagavel Professor & Head, Biochemistry, Chettinad Hospital and Research Institute, CARE
	11:15 am - 11:45 am	The biochemical signature- best practices in biobanking	Dr.Thivyaprabha A.G. Professor and Head, Biochemistry, St. Peter's Medical College
	11:45 am - 12:15 pm	Tumor microenvironment as a Game changer of cancer progression	Dr.S.Asmathulla Additional Professor & Head, Biochemistry, AIIMS, Madurai
	12:15 pm - 12:45 pm	Role of Laboratory in Acute coronary syndrome - Routine to recent	Dr. Iyyama Gowri Senior Resident, Biochemistry, SRMC&RI
	12:45 pm - 1:45 pm Lunch break		
1:45 pm - 3:45 pm	LC-MS Instrumentation & case-based interpretation	Instrumentation: Spinco Biotech & Team Case based interpretation: Dr.B.Umamaheswari Professor & Head, Neonatology, SRMC&RI Moderator: Dr.E.Karthick Senior Resident, Biochemistry, SRMC&RI	

PROGRAM SCHEDULE
Day 3 (22.04.2026)

Date	Time	Topic	Speaker
DAY-3 22.04.2026 Wednesday	8:30 am - 9:00 am	Clinical genome sequencing	Dr.Anjana Vinod Assistant Professor, Biochemistry, SRMC&RI
	9:00 am - 9:30 am	DNA hybridisation techniques	Dr.Teena Koshy Associate professor, Human genetics, SRIHER
	9:30 am - 10:00 am	RNA sequencing	Dr.A.Manikandan Professor, Dept of Biochemistry, SRMC&RI
	10:00 – 10:15 am Break		
	10:15 am - 10:45 am	Gene editing technologies - RNA interference and CRISPR	Dr.R.Anusha Professor & Head, Biochemistry, PMCHRI
	10:45 am - 11:15 am	Cell free DNA – Isolation techniques and Applications	Dr.K.Ramadevi Professor, Biochemistry, ACS Medical College & hospital
	11:15 am - 11:45 am	Epigenomics and epitranscriptomics	Dr.Akila Prashant Professor & Head, Biochemistry, JSS Hospitals
	11:45 am - 12:15 pm	Overview of machine learning algorithms	Dr.E.Karthick Senior Resident, Biochemistry, SRMC&RI
	12:15 – 1:15 pm - Lunch Break		
	1:15 pm - 3:45 pm	Mastering the basics: DNA isolation and Quantification	Dr.Teena Koshy Associate professor, Human genetics, SRIHER Dr.A.Manikandan Professor, Biochemistry, SRMC&RI

IgniteX – Inspire to Innovate

IgniteX is an academic platform that aims to ignite curiosity and inspire scholarly dialogues among emerging biochemists. This event focuses on the theme “Recent advances in Biochemistry”, encouraging participants to translate complex concepts into clear and engaging narratives. IgniteX provides an opportunity to showcase innovation, creativity, communication and teaching skills using modern technologies.

General Rules

- 1. Eligibility:** The event is open to all the participants registered for SRMC BioARC 2026.
- 2. Theme:** The presentation topic is “**Recent Advances in Biochemistry**” which may include emerging concepts, novel techniques, translational applications, or interdisciplinary developments.
- 3. Presentation Format:** Each participant must submit a **pre-recorded video explaining their chosen topic within 5 minutes of duration.**
- 4. Mode of Presentation:** Participants may choose **any teaching or presentation style**, including lectures, storytelling, case-based learning, visual explanations etc.. Use of any visual aids like PowerPoint slides, animations, etc. is permitted. The speaker should be visible in front of the camera during the whole presentation. The language of presentation must be **English.**
- 5. Content Guidelines:** Content must be Scientifically accurate, evidence-based, original and free from plagiarism. The presentation should be Clear, unbiased, and ethically appropriate. Misrepresentation of scientific facts may lead to disqualification. Citations should be adequately provided.
- 6. Judging Criteria:** Presentations will be evaluated based on:
 - Novelty and relevance to the topic (10)
 - Scientific accuracy and depth of presentation (10)
 - Clarity and organization of presentation (10)
 - Creativity and innovation in the presentation (10)
 - Time management and adherence to guidelines (10)
- 7. Judges’ Decision :** The decision of the judges shall be **final and binding.**
- 8. Awards & Recognition :** Cash prizes will be awarded for winners based on the final scores. E-certificates for participation will be provided to all participants.
- 9. Submission Guidelines:** The video should be submitted only in MP4 format not exceeding 100 MB. The last date of submission is on or before April 1st 2026, 5:00PM. Late or incomplete submissions will not be accepted. Kindly send your videos to **biochemistry@sriramachandra.edu.in.**