



School of Applied Sciences, Department of Biotechnology

Organises

Three-Day Hands-on Workshop

Recent Advancement in Molecular Biology Techniques

Date: 02nd to 04th May, 2024

Chief Patrons

Dr. P. Shyama Raju

Chancellor, REVA University

Shri. Umesh S. Raju

Pro chancellor, REVA University

Patrons

Dr. N. Ramesh

Vice Chancellor (I/C), REVA University

Dr. Narayanaswamy K. S.

Registrar (I/C), REVA University

Convener

Prof. P. Visweswara Rao

Associate Dean

School of Applied Sciences, REVA University

Prof. Shilpa B. R.

Director (I/C)

School of Applied Sciences, REVA University

Resource Persons

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Department of Biotechnology, SoAS

Dr. R. Senthilkumar

Associate Professor,

Department of Biotechnology, SoAS

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Associate Professor,

Department of Biotechnology, SoAS

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Assistant Professor,

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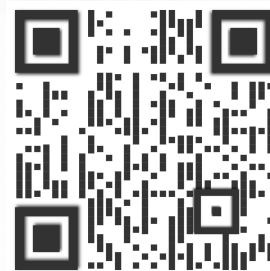
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Registration

Total Number of Seats : 25
Online Transfer Details : <https://www.reva.edu.in/payment>
Last Date for Registration : 01st May, 2024
Notification of Acceptance : 01st May, 2024

**Registration form
Scan here**



Fee Structure

Fee for the Students: (Undergraduate / Postgraduate/Scholars): 2000

Note: No refund after registration and the above fee structure is exclusive of food&accommodation

Venue: Centre of Excellence in Life Sciences, Department of Biotechnology
School of Applied Sciences, REVA University

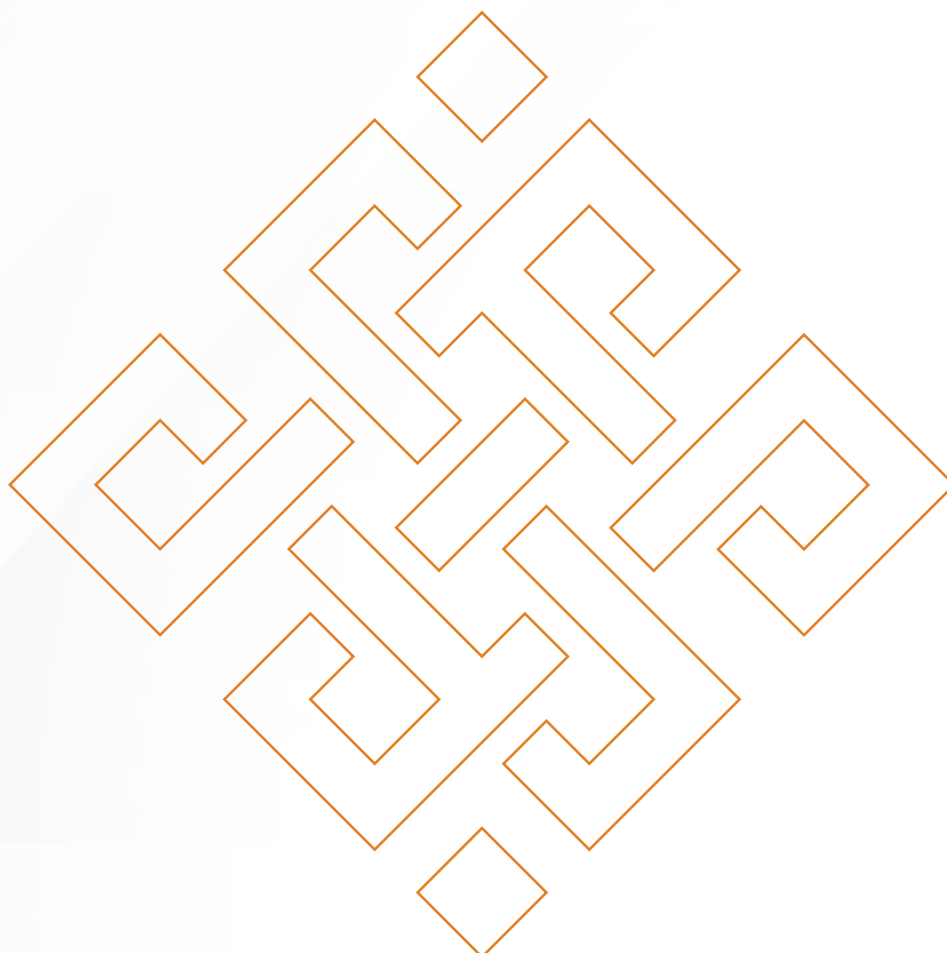
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About REVA University

REVA University is a State Private University established in Karnataka State under the Government of Karnataka Act No. 13 in the year 2012 in Bengaluru, the IT capital of India. The University is recognised by the University Grants Commission (UGC) and is approved by the AICTE (All India Council for Technical Education).

REVA University prides itself in contributing to every student's holistic development. The University currently offers 38 full-time Under Graduate Programmes, 33 full-time Post Graduate programmes, 20 PhD programmes, and certification and diploma programmes. The University offers programmes in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities, and Performing Arts. Courses are offered in Certificate/Diploma and Post Graduate Diploma too. REVA University facilitates research leading to a Doctoral Degree in all disciplines. The programmes offered by REVA University are well-planned and designed based on methodical analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance, and their social significance.

About School of Applied Sciences

The School of Applied Science, started in the year 2014, is known for its dedication and commitment. There are 98 highly qualified teaching faculties teaching various subjects as Physics, Chemistry, Mathematics, Biochemistry and Biotechnology. The school has organized many events such as Inspire Internship program, KSTA conference, National and International conferences. The department has dedicated R&D centre and many funded research projects from various funding agencies such as DST- SERB, DST-TERI, VGST etc.

Department of Biotechnology

The Department of Biotechnology, currently being functional under the School of Applied Sciences. The department offers various courses related to UG, PG and PhD. Department has established MoU with various research organizations and industries like ICAR-NIVEDI, Clini India, MMS University, Biozeen-Bengaluru, NIPGR-New Delhi etc. We offer career-focused courses that aim at creating skilled students to meet research and industrial requirements. The Postgraduate courses like industry-oriented M.Sc. Biotechnology and industry integrated M.Sc. Microbial Technology focuses on student career development. The M.Sc. Bioinformatics course provides a unique learning platform for students to excel in the field of computational biology, genomics, drug designing, etc. Besides, we offer a varied range of unique elective courses, online programs like MOOC/SWAYAM/COURSERA, Student Development Programme, workshops, Internships, and other research-based exposures which are part of the curriculum. The short-term certificate program offered by the biotechnology department deliver career strengthening opportunities to the students. Thus, we provide students with a wide range of career opportunities in domains such as clinical research, healthcare diagnostics services, bioprocess industries, medical and technical writing, entrepreneurship, molecular synthesis, drug designing, etc.

Programs offered

Undergraduate Program

Biotechnology, Biochemistry and Genetics (BBG)
Bioinformatics, Statistics and Computer Science (BStCS)
Microbiology, Chemistry and Genetics (MCG)
Mathematics, Statistics and Computer Science (MStCS)
Physics, Mathematics and Computer Science (PMCs)

Postgraduate Program

Biotechnology
Bioinformatics
Physics
Chemistry
Mathematics
Microbial Technology
Clinical Embryology and Assisted Reproductive Technology

About the Workshop

Rapid advancements in the fields of molecular biology, animal cell culture techniques have stimulated research and significantly impacted progress in all the areas of biological sciences. Thus, a basic understanding of the molecular biology and cell culture tools along with hands-on skill among the research scholars and students of various streams of biological sciences is critical. Hence, the main objective of the workshop is to acquaint the target group with a focused and comprehensive hands-on training on basic molecular biology and cell culture techniques.

The training will consist of sessions of scientific lectures, and practical sessions to impart thorough understanding about the molecular and cell culture tools and techniques. The participants shall be encouraged to discuss about their ongoing research work with the trainers, which will be helpful to them.

Who can attend?

Undergraduate Students, Postgraduate Students & Ph.D Scholars (any life science domain)

The certificate will be delivered to all the participants after successful completion of MCQ test.

Learning outcomes

- Understanding the technical aspects of Animal Cell Culture Studies & experiments.
- Hands on training related to Molecular Biology techniques using cell line

Course Contents

Day 1

- Inaugural Function
- Expert Lecture - Introduction to Animal cell culture techniques.
- Passaging and maintenance of cell lines.
- Media preparation, Cell counting and plating
- Cryopreservation (freezing and thawing of cell lines)
- RNA isolation from cell lines and quantification

Day 2

- Protein extraction and estimation from cell lines
- Protein separation by SDS PAGE
- Polymerase Chain Reaction from cDNA (Reverse Transcription-PCR)
- qRT-PCR

Day 3

- Staining of protein gel
- Agarose Gel electrophoresis
- MCQ-Test
- Conclusion of Workshop

Valedictory function





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