

## SOUTH ASIAN UNIVERSITY



## Faculty of Life Sciences and Biotechnology organises

## International Workshops

Workshop 1
Laboratory Techniques in
Molecular Biology and Genetic
Engineering
8-10 July 2024

Workshop 2
Laboratory Techniques in
Recombinant Protein
Expression & Purification
11-12 July 2024

Venue: FLSB laboratory (LS 004), South Asian University, Rajpur Rd. Maidan Garhi

### Who can attend?

Open to students pursuing or completed BSc, MSc, PhD in any field of Biology/Research Scholars/Faculty members/ Industry delegates from any SAARC countries

Registration Fees (INR)		
Category	Any one workshop	For both workshops
Students	3000	5000
Faculty	4000	6000
Industry	5000	8000

Registration Deadline: June 25, 2024

**Workshop session:** The workshop will cover lectures and complete hands-on practical training in the laboratory by expert mentors.

## Registration Fees includes:

Workshop materials, Tea/Lunch, and Training
Certificates. Accommodation is not included in the
registration fee. Limited hostel accommodation (on
sharing and payment basis) may be available on
request

Enquiries:

Email us: simplekumari@southasianuniversity.org

Phone:



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https://sau.int/



## Workshop 1

# Laboratory Techniques in Molecular Biology and Genetic Engineering



July 8-10, 2024 | 10 am- 5 pm

Venue: FLSB Laboratory (LS 004) South Asian University, Rajpur Rd, Maidan Garhi.

## 3-days practical Hands-on training

Day 1

Day 2

- Preparation of buffers
- Polymerase Chain Reaction
- Agarose Gel Electrophoresis
- Purification of DNA from Agarose gel
- Gene cloning in plasmid vector

- Transformation of plasmid DNA
- Preparation of media and LB plates
- Plasmid DNA isolation from Ecoli.
- Quantification of plasmid DNA

Day 3

- Restriction enzyme digestion of DNA
- Analysis of restriction digestion
- Overview of gene cloning techniques
- Troubleshooting

Each day will have lectures covering a variety of topics in Molecular Biology and Genetic Engineering followed by practical hands-on training in the laboratory

Registration Deadline: June 25, 2024

**Enquiries** 

Conveners: Dr. Ritu Gaur and Dr. Ananda Mustafiz Coordinators: Ms. Simple, Aradhana and Arushi Email: simplekumari@southasianuniversity.org

Phone: 9811361844; 9140058863

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**REGISTER NOW!** 

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### Workshop 2

## Laboratory Techniques in Recombinant Protein Expression & Purification





#### OBJECTIVES OF THE WORKSHOP

Recombinant protein expression & purification techniques are the most widely used techniques in Medical and Industrial biotechnology. The major objectives of this workshop are heterologous protein expression using E. expression host and protein purification using coli chromatography technique. In 2 days, participants will learn the basics of various protein expression platforms through hands-on training in bacterial by ultrasonication, Polyacrylamide cell lysis cell culture. gel (SDS-PAGE), Affinity Chromatography, the electrophoresis and quantitative/qualitative analysis of the purified protein.

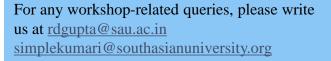
#### **ORGANIZERS**



Dr. Rinkoo D Gupta Associate Professor



Dr. Ravi S Akund Associate Professor



#### **COORDINATORS**



Ms. Simple Kumari Lab In-charge



Md Fahim Khalid PhD Student



Md. Mostafizur Rahman PhD Student