

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:

REGISTER NOW!



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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

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

Day 2

- 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

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Laboratory Techniques in Recombinant Protein Expression & Purification

July 11-12, 2024 | 10 am- 5 pm

Venue: FLSB laboratory (LS 004)

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. coli* as expression host and protein purification using affinity chromatography technique. In 2 days, participants will learn the basics of various protein expression platforms through hands-on training in bacterial cell culture, cell lysis by ultrasonication, Polyacrylamide gel electrophoresis (SDS-PAGE), Affinity Chromatography, and the quantitative/qualitative analysis of the purified protein.

ORGANIZERS



Dr. Rinkoo D Gupta
Associate Professor



Dr. Ravi S Akund
Associate Professor

For any workshop-related queries, please write us at rdgupta@sau.ac.in
simplekumari@southasianuniversity.org

COORDINATORS



Ms. Simple Kumari
Lab In-charge



Md Fahim Khalid
PhD Student



Md. Mostafizur Rahman
PhD Student

For registration, please visit the link <https://sau.int/events/>