

Online Course on Molecular Cloning

19th – 26th January, 2025
(7.00pm – 9.00pm IST)

HIGHLIGHTS

Basics of Cloning & its Applications, DNA Manipulation & Vector Preparation, Cloning Vectors, Restriction Enzymes, PCR for Gene Amplification, Primer Designing, Gel Electrophoresis, Ligation, Competent Cell Preparation, Transformation, Screening and Clone Selection

INVITED SPEAKERS



Dr. Aruna Goenka Agrawal,
Director,
Flowcytometry Solutions,
Jaipur, India



Dr. Anirudh Singh
Associate Professor
SAM Global University
Raisen, M.P., India



Dr. Satyabrata Bag
HOD QC,
3B BlackBio Dx Ltd,
Bhopal, India



Dr. Shivendra Chaurasiya
Associate Professor
MANIT
Bhopal, India

Registration Fee

How to Apply

-Fill Registration form online by clicking the “REGISTER” button below

-Make payment by scanning the QR on right hand side and send receipt via email

-For International payment, send us the request for payment link

From India:

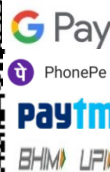
Student/Technician/JRF/SRF/Trainee
(From Academia)—INR 1000

Postdoc/Resident (JR/SR)/Faculty/
Technical or Research Officer/Consultant/
Research Associate/Scientist—INR 1500

Diagnostic Lab/Company/Non-Academia-
Clinical or Research—INR 2000

Outside INDIA: USD 50

Scan the Below
QR Code and Pay



Discount on Registration Fee
10% for Group of 5 or More

Contact Us
training@flowsols.com



- Reading Material will be provided
- Recordings for all the sessions will be available to watch
- E-Certificate will be given to all registered participants

Last Date of Registration 18th January 2025

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PROGRAM

Lecture	Date & Day	Time (IST)	Title	Speaker
Topic 1	19 th Jan 2025 (Sunday)	7:00 pm-9:00 pm	Introduction to Molecular Cloning -Types of cloning -Virtual exploration of DNA plasmid maps and enzyme databases (e.g., NEB Cutter) -Discussions on experimental design	Dr. Anirudh Singh
Topic 2	20 th Jan 2025 (Monday)	7:00 pm-9:00 pm	DNA Manipulation and Vector Preparation -Enzyme-based digestion -Designing PCR primers -Polymerase Chain Reaction -Gel electrophoresis -DNA gel extraction and quantification	Dr. Aruna Goenka Agrawal
Topic 3	22 nd Jan 2025	7:00 pm-9:00 pm	Ligation and Transformation -Overview of DNA ligation methods. -Transformation techniques: chemical and electroporation. -Key factors influencing transformation efficiency. -Troubleshooting ligation and transformation issues using case studies. -Simulation of plasmid assembly tools (e.g., SnapGene)	Dr. Satyabrata Bag
Topic 4	25 th Jan 2025	7:00 pm-9:00 pm	Screening and Verification -Screening methods: antibiotic selection and blue-white screening. -Verification techniques: colony PCR, restriction digestion, and sequencing. -Bioinformatics tools for sequence analysis.	Dr. Shivendra Chaurasiya
Topic 5	26 th Jan 2025	7:00 pm-9:00 pm	Applications of Cloning -Real-world applications: protein expression, gene therapy, and synthetic biology. -Importance in research, industry, and medicine. -Common challenges and troubleshooting tips.	Dr. Anirudh Singh

For any queries, please contact us at training@flowsols.com