West Zone AMBI Workshop
Basic and Advanced Genomic Techniques

Organized by Department of Biochemistry

Armed Forces Medical College Pune

23 Oct 2025

Coordinator	Venue
Dr. Anurodh Gupta Professor, Biochemistry AFMC Pune	Department of Biochemistry Third Floor Diamond Jubilee Block AFMC Pune

Workshop Overview

This one-day workshop offers participants a unique opportunity to gain hands-on training in genomic techniques, covering both foundational and advanced methods. Sessions will include DNA extraction and handling, PCR setup and optimization, and sequencing workflows, with a focus on practical applications in molecular diagnostics.

The program is designed to:

Strengthen conceptual understanding of genomic technologies.

Provide practical exposure to cutting-edge laboratory tools.

Enhance laboratory skills and confidence in performing genomic assays.

Bridge the gap between theoretical knowledge and real-world laboratory practice.

Who Should Attend?

The workshop will be particularly beneficial for postgraduate students, researchers, and faculty members seeking to expand their expertise in molecular biology and genomic diagnostics.

Workshop Faculty

Dr Bhaskar Mukherjee, Prof & HOD Dept of Biochemistry AFMC

Dr Anurodh Gupta Prof Dept of Biochemistry AFMC

Dr Deeptika Agrawal Assoc Prof Dept of Biochemistry AFMC

Mrs Subhashree Pradhan Sc C Dept of Biochemistry AFMC

Date: -23 OCT 2025

Venue – Department of Biochemistry, 3rd floor, Diamond jubilee block

Workshop : Basic & Advanced Molecular Techniques		
Time	**Topic**	**Speaker/Resource Person**
0800 - 0900 H	Registration at Diamond Jubilee Block Foyer	
0900h-0930 H	Welcome address	Dr Bhaskar Mukherjee
0930h-1000 H	Basics of molecular biology: DNA & RNA	Dr Deeptika Agrawal
1000h-1200 H	Hands-on DNA Extraction & Quantification	Dr Deeptika Agrawal Mrs Subhashree Pradhan
1200h-1230 H	Basic Principle and Types of PCR	Dr Anurodh Gupta
1230h-1330 H	Hands-on End Point PCR reaction and Gel electrophoresis.	Dr Anurodh Gupta Dr Deeptika Agrawal Mrs Subhashree Pradhan
1330h-1400 H	**Lunch**	
1400h-14300 H	Basics of Sanger Sequencing	Dr Anurodh Gupta
1430h-1700 H	Sanger Sequencing wet lab and Data analysis	Dr Anurodh Gupta Dr Deeptika Agrawal Mrs Subhashree Pradhan
1700h-1730 H	**High Tea**	
24 Oct 2025- The Molecular Lab Dept of Biochemistry AFMC Pune has high-end technologies such as Next Generation Sequencing. Visit to NGS lab will be encouraged. Interested Candidates will be permitted hands on practice of PCR.		

Registration Fee: Rs 2000/-

SCAN & PAY

Correspondance email

afmcmolecular@gmail.com

Please email your details after payment

About Pune

Pune, often called the ‘Cultural Capital of Maharashtra’, is the second-largest city in the state after Mumbai and one of the fastest-growing metropolitan cities in India. Nestled near the Sahyadri hills in western Maharashtra, Pune boasts a rich historical legacy as the stronghold of the Peshwas of the Maratha Empire. The city has played a pivotal role in India’s freedom movement and socio-cultural reforms and has earned the title ‘Oxford of the East’ due to its renowned educational institutions such as Savitribai Phule Pune University, Fergusson College, FTII, and Symbiosis International University.

Today, Pune is a major hub for **Information Technology, Automobile Manufacturing, Research, and Education**. Industrial zones like **Hinjewadi IT Park, Chakan MIDC**, and **Talegaon** attract leading national and international companies. It is also home to strategic defense establishments such as the **National Defence Academy (NDA)** and **Southern Command HQ**. The city is well connected to all major Indian cities via road, rail, and air. The existing **Pune Airport** and the upcoming **Purandar International Airport** along with the **Pune Metro project** signify rapid infrastructural growth.

Pune is also a **green city**, with several parks, hills, and lakes such as **Parvati Hills, Vetal Tekdi, Pashan Lake, and Saras Baug**, making it a favorable place for eco-conscious urban living. The city is also close to weekend getaways like **Lonavala, Khandala, Lavasa, and Mahabaleshwar**.