



ALL INDIA INSTITUTE OF AYURVEDA

Ministry of Ayush, Government Of India,
Sarita Vihar, New Delhi, 110076
www.aiia.gov.in



SKILL DEVELOPMENT TRAINING IN MOLECULAR BIOLOGY TECHNIQUES

INTEGRATION OF AYURVEDA CLASSICS & MOLECULAR BIOLOGY

June 25th to July 24th 2026

Integrated Translational Molecular Biology Unit (ITMBU)

Department of Roga Nidan Evam Vikriti Vigyan (RNVV)

Last Date of Registration: June 15, 2026 (Monday)

Official List of Selected Candidates: June 17, 2026 (Wednesday)

Last Date of Fee Payment: June 22, 2026 (Monday)

Link for Registration: <https://forms.gle/2BUi4ea6xuRZ7icz9>

Venue: Room No 516, 5thFloor, Academic Block (ITMBU), AIIA, New Delhi

The training in Molecular Biology Techniques is designed to equip students with cutting-edge skills in the field of molecular biology, combining modern science with traditional Ayurvedic practices. Learn advanced laboratory techniques and its application in health and disease.



COURSE CONTENT

Basic Molecular Techniques

Introduction to fundamental laboratory skills including pipetting, reagent preparation, and sterile handling. Provides the essential foundation required for all advanced molecular biology procedures.

Nucleic Acid Extraction

Demonstration training in isolating high-quality DNA and RNA from biological samples. Focuses on yield optimization, purity assessment, and troubleshooting common challenges.

PCR (Polymerase Chain Reaction)

Learn how to amplify specific DNA fragments using PCR. Covers reaction setup, primer design basics, and analysis of amplified products and Gel Electrophoresis

RT-PCR (Reverse Transcription PCR)

Understanding the conversion of RNA into complementary DNA (cDNA) followed by amplification. Ideal for gene expression studies and RNA analysis.

Real-Time PCR (qPCR)

Training in quantitative analysis of nucleic acids using fluorescence-based detection. Includes interpretation of Ct values, melt curves, and quantification methods.

Western Blot

Covers Protein casting, Protein isolation, estimation, protein separation, transfer, and antibody-based detection techniques. Provides skills to identify and quantify target proteins from complex samples.

FACS (Fluorescence-activated cell sorter)

Covers the complete FACS workflow, including sample preparation, instrument setup, data acquisition, and cell sorting.

Training Duration: 30 days

- Expert online Lectures,
- Skill Training 5 days, 20 July to 24 July at ITMBU, AIIA, New Delhi
- **Total no. of Seats: 10**
- **Fee: 7000 (excluding Accommodation)**

Working High tea, Lunch & Registration Kit will be provided at AIIA, New Delhi.

Who should attend?

- **Essential qualification:** Completed MD Ayurveda or M.Sc Life Sciences
- **Desirable:** Basic knowledge of Molecular Biology Techniques

Why should attend?

- Hands-on Training
- Expert Faculty Guidance
- Enhance Analytical and Research Competence

***Certificate of Participation will be provided on successful completion of skill development training.**

Organizing Patron

Prof. (Vd.) P.K. Prajapati
Director, AIIA

Organizing Chairman

Dr. Vivek Agarwal
MD, PhD

Organizing Secretary

Dr. Richa Tripathi, PhD
Dr. Shalini Rai, MD, PhD

Scientific Experts

Dr. Neha Singh, PhD
Dr. Ozasvi R. Shanker, PhD

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