

## REPORTS



# UKA TARSADIA UNIVERSITY C.G. BHAKTA INSTITUTE OF BIOTECHNOLOGY



Resolving Doubts Holds the Key

## Online Certificate Course in Recombinant DNA Technology (Batch-29<sup>th</sup>)

- **Date:** 17<sup>th</sup> June 2025 to 4<sup>th</sup> July 2025
- **Venue:** Online mode
- **Time:** 6.00 pm to 8.00 pm
- **Total No. of Participants:** 23
- **Name of the Experts:** Dr. Gopal Jee Gopal, Dr. Ravi Vijayvargiya. MSU Baroda,  
**If non-UTU Experts:** 1. Dr. Ravi Vijayvargiya (MSU, Baroda)
- **Event Coordinator:** Dr. Gopal Jee Gopal
- **Program objective:** To enhance participants' knowledge and practical understanding of Recombinant DNA Technology.
- **Program outline (in two lines):** This is 32 hours online course in which participants were from all over India and ranging from Graduate students to faculties.

- **Program outcomes** (in three lines): Total 23 students and scholars (from all over India) have attended this course.

Schedule of Events in a tabular format

DAYS & TIME	ACTIVITY
DAY-1 (6.00 PM to 8.00 PM)	Inauguration (20 minutes), Introduction to RDT. Why should we study RDT?
DAY-2 (6.00 PM to 8.00 PM)	Basic Techniques used in RDT: Gel electrophoresis (>10 types) will be Continued.... next day
DAY-3 (6.00 PM to 8.00 PM)	Blotting techniques, Sequencing
DAY-4 (6.00 PM to 8.00 PM)	PCR: Normal PCR, RT-PCR, PCR plateau, Real time PCR, Error prone PCR etc. (>10 types of PCR
DAY-5 (6.00 PM to 8.00 PM)	Frequently used chemical and mathematical calculations
DAY-6 (6.00 PM to 8.00 PM)	Players of Gene cloning
DAY-7 (6.00 PM to 8.00 PM)	Players of RDT: DNA modifying Enzymes, Vector
DAY-8 (6.00 PM to 8.00 PM)	Cloning and Expression vector pBR322, pUC, pET, pMAL, Bacteriophage, Cosmid, Phagemid. YAC, BAC etc.
DAY-9 (6.00 PM to 8.00 PM)	Strategy for gene/DNA Cloning: Isolation of gene, ligation, Introduction of recombinant DNA into host and screening.

DAY-10 (6.00 PM to 8.00 PM)	Complete Steps of PCR based gene cloning.
DAY-11 (6.00 PM to 8.00 PM)	Expression of foreign gene in <i>E. coli</i> (More than 10 types of Expression host)
DAY-12 (6.00 PM to 8.00 PM)	Strategy to produce Recombinant protein in eukaryotic host, (Dr. Ravi Vijayvargiya)
DAY-13 (6.00 PM to 8.00 PM)	Exploring the function of the gene. Protein Engineering
DAY-14 (6.00 PM to 8.00 PM)	Plant Genetic Engineering. (Dr. Abhishek Sharma)
DAY-15 (6.00 PM to 8.00 PM)	Protein-Protein Interaction
DAY-16 (6.00 PM to 8.00 PM)	Protein -DNA interaction. Valedictory

### **Online certificate course in Recombinant DNA Technology (Batch-29<sup>th</sup>)**

Online certificate course in Recombinant DNA Technology (Batch-29<sup>th</sup>) has been successfully conducted from 17<sup>th</sup> June 2025 to 4<sup>th</sup> July 2025 by Dr. Gopal Jee Gopal. Participants were from all over India and ranging from UG students to Scientists and faculties. Participants were from not only state Universities and private Universities but also from central Universities and All India Institute of Medical Science (AIIMS) New Delhi also. In addition to Dr. Gopal Jee Gopal, Dr. Ravi Vijayvargiya, MSU Baroda has also delivered lecture. We thank our Director, Prof. Dr. Meonis Pithawala, honourable Vice Chancellor, Dr. Yogeshwar Kosta and Honorable CEO. Dr. Dinesh R. Shah for all the freedom to execute programme successfully. The valedictory was graced by Prof. A.M. Deshmukh, President, MBSI.

## Inauguration of 29<sup>th</sup> Batch



## Valedictory of 29<sup>th</sup> batch



Oral feedback shared by participants: <https://youtu.be/eXMIU2kSkz0g>



**Feedback shred on LinkedIn Post:**

[https://www.linkedin.com/posts/gopal-jee-gopal-a2312529\\_recombinantdnatechnology-biotechnology-microbiology-activity-7347185991251550208-vm42?utm\\_source=share&utm\\_medium=member\\_desktop&rcm=ACoAAAXkJXsBhDReVh3j8ECAjSC8cnQ9CqACNZ8](https://www.linkedin.com/posts/gopal-jee-gopal-a2312529_recombinantdnatechnology-biotechnology-microbiology-activity-7347185991251550208-vm42?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAXkJXsBhDReVh3j8ECAjSC8cnQ9CqACNZ8)

*Gopal Jee Gopal*

**Dr. Gopal Jee Gopal**

**Course Coordinator**



*Meonis A. Pithawala*

**Dr. Meonis A. Pithawala**

**Director**

**Director**

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