



सत्यमेव जयते  
Government of India  
Ministry of Human Resource  
Development

**Guru Angad Dev  
Teaching Learning Centre of MHRD**  
SGTB Khalsa College, Delhi University

*A Centre of MHRD, Govt. of India  
under Pandit Madan Mohan Malaviya National Mission  
on Teachers and Teaching (PMMMMNMTT)*



In collaboration with

Ram Lal Anand College,



University of Delhi

**REPORT**

**One Week Online Faculty Development Programme**

**Essential Skills for Genomics**

**(4-11 August, 2023)**



## RAM LAL ANAND COLLEGE (DEPARTMENT OF MICROBIOLOGY)

UNDER THE AEGIS OF IQAC  
AND

CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION,  
AND TRAINING (CIIDRET), UNIVERSITY OF DELHI SOUTH CAMPUS

IN COLLABORATION WITH

INSTITUTION OF EMINENCE-DELHI SCHOOL OF SKILL ENHANCEMENT AND  
ENTREPRENEURSHIP DEVELOPMENT (IOE-DSSEED)

AND

UNIVERSITY OF DELHI

(SKILL ENHANCEMENT COURSE COMMITTEE)

AND

GAD-TLC, SGTB KHALSA COLLEGE

MINISTRY OF EDUCATION, PMMMNMTT, GOVT. OF INDIA

IS CONDUCTING

## One Week National Faculty Development Program (FDP)

on

### Essential Skills for Genomics

### 4-11 August 2023

#### University of Delhi Skill Enhancement Courses to be covered during FDP

- 01 Isolation and Characterization of Plasmid DNA
- 02 Isolation and Characterization and quality check of Genomic DNA
- 03 Polymerase chain reaction (PCR) and its applications

Successful completion of  
FDP will meet promotional  
Requirements as per CAS of  
UGC

**LIMITED SEATS**  
**Registration CHARGES @**  
**Rs. 4000/-**

**CONTACT US:**  
**PROF. VANDANA GUPTA**



+91 78380 04880

email:vandanagupta@rla.du.ac.in



**Inauguration of One Week National Faculty Development Program (FDP) on Essential Skills for Genomics being held at the RAM LAL ANAND COLLEGE and Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET), University of Delhi South Campus organized by Department of Microbiology, RLAC, CIIDRET, IoE-DSSEED, Skill Enhancement Course Committee, University of Delhi and GAD-TLC, SGTB Khalsa College, Ministry of Education, PMMMNMTT, Govt. of India.**





**Duration: 7 working days**

**Title: Essential Skills for Genomics**

**No. of Registrations: 15**

**No. of Participants joined: 15**

**No. of Participants Qualified (50 or above Total Marks out of 100): 15**

**No. of Participants Not Qualified (49 or less Total marks out 100): 0**

### **Organising Committee @ GAD-TLC**

#### **CORE TEAM**

- Prof A. K. Bakhshi, Chairman, GAD-TLC and VC, PDM University, Haryana,
- Prof K V Bhanumurthy Vice-Chairman, GAD-TLC
- Prof Jaswinder Singh, Principal SGTB Khalsa College & Director, GAD-TLC
- Prof. Vimal Rarh, Project head and Joint Director, GAD-TLC

**National Coordinator-** Dr Vimal Rarh

### **Organising Committee @ Collaborating Institution**

#### **Department of Microbiology, Ram Lal Anand College**

- Prof. Rakesh Kumar Gupta, Principal Rlac,
- Prof. Vandana Gupta, Teacher In Charge, Department Of Microbiology, Rlac.
- Prof. Perna Diwan, Coordinator, Iqac, Rlac

#### **Centre For Innovation In Infectious Disease Research, Education, And Training (Ciidret), University Of Delhi South Campus**

- Prof. Amita Gupta, Director, CIIDRET

#### **Institution Of Eminence-Delhi School Of Skill Enhancement And Entrepreneurship Development (Ioe-Dsseed)**

- Prof. Vijay K Chaudhary, Director Ioc-Dsseed

#### **Skill Enhancement Course Committee, University Of Delhi**

- Prof. Payal Mago, Chairperson, Skill Enhancement Course Committee, University Of Delhi

## Resource Persons and Panelists:

From Center For Innovation In Infectious Disease Research, Education And Training (CIIDRET), University of Delhi South Campus:

- **Prof. Vijay Kumar Chaudhary** - Nasi-Senior Scientist,  
Director (Hon.), Delhi School For Skill Enhancement & Entrepreneurship Development (DSSEED), UDSC.
- **Prof. Amita Gupta** - Professor & Director
- **Shilpi Das** - Technical Officer At Genomic Facility
- **Navneet Kaur** - Research Scholar
- **Surbhi Chauhan** - Research Scholar
- **Sapna Yadav** - Project Assistant

From Ram Lal Anand College, University of Delhi South Campus :

- **Prof. Vandana Gupta** - Professor and Teacher in charge
- **Prof. Perna Diwan** - Professor
- **Ms. Mansi Podia** - Research Scholar
- **Ms. Perna Yadav** - Research Scholar
- **Ms. Shashi Prabhakumari** - JRF

## Organizers and their Role

Name	Designation and Affiliation	Role
Prof. Vandana Gupta	Professor in Microbiology, Ram Lal Anand college, University of Delhi	Overall planning, execution, coordination among various collaborating institutes, participants feedback and evaluation etc.
Prof. Perna Diwan	Professor in Microbiology Ram Lal Anand college, University of Delhi	Organizing the genomic DNA isolation experiments and valedictory function
Prof. Rakesh Kumar Gupta	Professor and Principal, Ram Lal Anand College	Overall planning, coordination and providing administrative facilities and funds.
Prof. VK Chaudhary	NASI Senior Scientist Director, IoC-DSSEED, South Campus, University of Delhi	Planning, execution and coordinating conduct of experiments of plasmid isolation and PCR. Also he was the resource person for PCR theory sessions.
Prof. Amita Gupta	Professor & Director Director, CIIDRET South Campus, University of Delhi	Planning, execution and coordinating conduct of experiments of plasmid isolation and PCR. Also he was the resource person for plasmid isolation theory sessions.
Prof Payal Mago	Professor, Director SOL Chairperson, Skill Enhancement courses committee, Principal, Shaheed Rajguru College,od applied Sciences for Women	Guidance and Planning

Prof. A.K.Bakhshi	Ex -VC, UPRTOU & PDM University, Chairman, GAD-TLC	
Prof. Jaswinder Singh	Director, GAD-TLC, Principal, SGTB Khalsa College	
Prof. Vimal Rahr	Professor, SGTB Khalsa College, Project Head, & Joint Director, GAD-TLC	



**Participants of One Week National Faculty Development Program (FDP) on “Essential Skills for Genomics” being jointly held at the Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET), University of Delhi South Campus and RAM LAL ANAND COLLEGE.**  
**This FDP has been organized by Department of Microbiology, RLAC, CIIDRET, IoE-DSSEED, Skill Enhancement Course Committee, University of Delhi and GAD-TLC, SGTB Khalsa College, Ministry of Education, PMMMNMTT, Govt. of India.**

*Report on Day-wise Schedule for the Workshop on Essential Skills in Genomics  
 4<sup>th</sup>– 11<sup>th</sup> August 2023  
 RLA and CIIDRET, UDSC*

DATE	DETAILED PROGRAM
<b>4<sup>th</sup> August            (Friday)            First half- RLA</b>	<b>Inauguration of the workshop            Distinguished Guest: Prof. Payal Mago            FDP Organisers: Prof. V.K. Chaudhary, Prof. Amita Singh            Welcome Address: Prof. Rakesh K. Gupta            Vote of Thanks: Prof. Vandana Gupta            Introduction of Faculty and Participants</b>
	<b>Lecture- Basic microbiological techniques            Resource Person: Dr. M. Salome John</b>
	<b>Introduction to all the Equipment, Lab visit            Resource Person: Prof. Vandana Gupta</b>

		<b>Hands-on Practice of Pipetting and Streaking</b> Resource Person: Dr. Sunila, Dr. Nidhi Chandra, Dr. Shalini, Dr. Nidhi Verma	
<b>4<sup>th</sup> August (Friday)</b> Second half- CIIDRET	<b>BATCH 1</b>	<b>BATCH 2</b>	
	<b>Preparation of reagents Demonstration of Inoculation for isolation of plasmid DNA Resource Person: Shilpi Das</b>	<b>Preparation of reagents Demonstration of Inoculation for isolation of plasmid DNA Resource Person: Navneet Kaur</b>	
	<b>Demonstration of Isolation of plasmid DNA by Spin Column Method Resource Person: Navneet Kaur</b>	<b>Demonstration of Isolation of plasmid DNA by alkaline lysis Method Resource Person: Shilpi Das</b>	
	<b>Demonstration of Isolation of plasmid DNA by alkaline lysis Method Resource Person: Shilpi Das</b>	<b>Demonstration of Isolation of plasmid DNA by Spin Column Method Resource Person: Navneet Kaur</b>	
<b>5<sup>th</sup> August (Saturday)</b> CIIDRET	<b>Demonstration of analysis of isolated DNA by agarose gel electrophoresis Resource Person: Shilpi Das</b>	<b>Demonstration of analysis of isolated DNA by agarose gel electrophoresis Resource Person: Navneet Kaur</b>	
	<b>Hands-on Inoculation for isolation of plasmid DNA Resource Person: Shilpi Das</b>	<b>Hands-on inoculation for isolation of plasmid DNA Resource Person: Navneet Kaur</b>	
	<b>7<sup>th</sup> August (Monday)</b> CIIDRET	<b>Hands-on isolation of plasmid DNA by alkaline lysis Method and analysis by agarose gel electrophoresis Resource Person: Navneet Kaur, Surbhi Chauhan</b>	<b>Hands-on isolation of plasmid DNA by Spin Column Method and analysis by agarose gel electrophoresis Resource Person: Shilpi Das, Surbhi Chauhan</b>
	<b>Demonstration of PCR Resource Person: Surbhi Chauhan</b>		
	<b>Lecture- Plasmids, Features, Isolation technology- Principles and Methods Resource Person: Prof. Amita Gupta</b>		
	<b>Hands-on inoculation for isolation of plasmid DNA</b>	<b>Hands-on inoculation for isolation of plasmid DNA</b>	
<b>8<sup>th</sup> August (Tuesday)</b> CIIDRET	<b>Hands-on PCR and analysis by agarose gel electrophoresis</b>	<b>Hands-on PCR and analysis by agarose gel electrophoresis</b>	
	<b>Lecture- PCR and its applications Resource Person: Prof. V.K. Chaudhary</b>		

	<b>Purification of PCR product and analysis by agarose gel electrophoresis</b> <b>Resource Person: Surbhi Chauhan</b>	<b>Purification of PCR product and analysis by agarose gel electrophoresis</b> <b>Resource Person: Surbhi Chauhan</b>
	<b>Lecture- Primer Designing and PCR Components</b> <b>Discussion on Results</b> <b>Resource Person: Prof. V.K. Chaudhary &amp; Prof. Amita Gupta</b>	
<b>9<sup>th</sup> August (Wednesday) RLA</b>	<b>Hands-on isolation of genomic DNA from bacterial cells and analysis by agarose gel electrophoresis</b> <b>Resource Person: Mansi Podia</b>	<b>Hands-on isolation of genomic DNA from bacterial cells and analysis by agarose gel electrophoresis</b> <b>Resource Person: Prerna Yadav, Shashi Prabhakumari</b>
	<b>Media preparation, sterilization, and plate pouring</b> <b>Resource Person: Dr. Nidhi Verma</b>	
	<b>Inoculation and Streaking Bacterial Culture</b> <b>Resource Person: Dr. Sunila Hooda, Dr. Shalini Swami,</b>	
<b>10<sup>th</sup> August (Thursday) RLA</b>	<b>Hands-on isolation of genomic DNA from eukaryotic cells and analysis by agarose gel electrophoresis.</b>	<b>Hands-on isolation of genomic DNA from eukaryotic cells and analysis by agarose gel electrophoresis</b>
	<b>Genomic DNA QC using Spectrophotometer</b> <b>Resource Person: Mansi Podia, Prerna Yadav, Shashi Prabhakumari</b>	
<b>11<sup>th</sup> August (Friday) RLA</b>	<b>Assignment and Quiz</b> <b>Resource Person: Prof. Prerna Diwan</b>	
	<b>Compilation of results, answering questionnaire and feedback on workshop experiments</b>	<b>Compilation of results, answering questionnaire and feedback on workshop experiments</b>
	<b>Valedictory Event</b>	

**Details of the Participants: (n=15)**

<b>S. No.</b>	<b>Name</b>	<b>Email ID</b>	<b>Contact Number</b>	<b>College of Affiliation</b>	<b>Department</b>	<b>Designation</b>
1	Dr. Tarun Kumar	tktarunbiotech@gmail.com	9810750967	Shaheed Rajguru College of Applied Sciences for Women, University of Delhi	Biochemistry	Assistant Professor
2	Dr. Mansi Gogna	mgogna@maitreyi.du.ac.in	9667887348	Maitreyi College	Botany	Assistant Professor (Ad-hoc)

3	Dr. V. A. Pratyusha	pratyusha@rajguru.du.ac.in	9873929458	Shaheed Rjguru College of Applied Sciences for Women	Biochemistry	Assistant Professor
4	Dr Lakshmi Pasricha Sarin	lakshmi.sarin@rajguru.du.ac.in	9891440256	Shaheed Rajguru college of applied sciences for women	Biochemistry	Assistant Professor
5	Dr. Vandana	vandana@maitreyi.du.ac.in	7428417089	Maitreyi college	Botany	Assistant Professor
6	Nidhi Verma	vermanidhi5@gmail.com	9528498280	Ram Lal Anand	Department of Microbiology	Assistant Professor
7	M Salome John	msalomejohn.mic@rla.du.ac.in	8860504883	Ram Lal Anand College	Microbiology	Assistant professor
8	Dr. Sunila	sunilahooda@gmail.com	9810473771	Ram Lal Anand College	Microbiology	Assistant Professor
9	Dr. Shalini Swami	shalinismwami@rla.du.ac.in	9958479607	Ram Lal Anand College	Microbiology	Assistant Professor
10	Rajesh kumar	rajeshbot@gmail.com	9810344831	Hindu	Botany	Associate Professor
11	SUNIL KUMAR DHIMAN	sukudhiman0206@gmail.com	9811120249	KIRORI MAL COLLEGE	BOTANY	Associate Professor
12	Dr Swagata Karmakar	sway.swagata@gmail.com	9910479037	Ram Lal Anand College	Environmental Studies	Assistant professor
13	Virendra Bahadur Singh	virendrasinghju@gmail.com	9999310454	Ram Lal Anand College	Environmental Studies	Assistant Professor
14	Dr Nidhi Subhash Chandra	drnidhischandra@gmail.com	9953598732	Ram Lal Anand College	Microbiology	Assistant Professor
15	Dr. Suneeta Meena	<a href="mailto:suneetameena@gmail.com">suneetameena@gmail.com</a>	9971822348	Ram Lal Anand College	Laboratory Medicine	Assistant Professor

## STATISTICAL ANALYSIS

We had 15 registered faculties including Assistant and Associate Professors from different affiliated colleges of Delhi University (Hindu College, Shaheed Rajguru College, Maitreyi College, Kirori Mal College and Ram Lal Anand College) and AIIMS, New Delhi.

Certificates of successful completion were awarded to 15 participants on the basis of the mandated attendance in all the thirteen sessions and three compulsory assignments.

**Designations of Participants attended:** Associate Professor and Assistant Professor

**Qualification:** PhD. in different discipline of Sciences.

**Subject:** Botany, Biochemistry, Bioinformatics, Environmental Sciences, Microbiology

**Nature of Institution:** Affiliated Colleges to Delhi University, AIIMS.

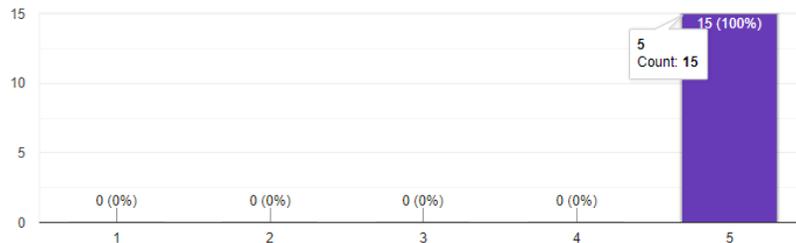
## SESSION WISE FEEDBACK ANALYSIS

### Day 1, Aug 4 2023

6. How do you rate this Session on a scale of 1 to 5

[Copy](#)

15 responses

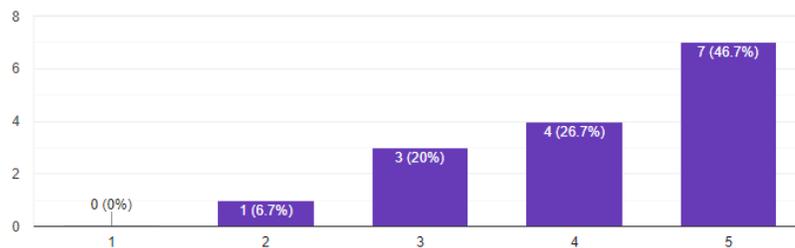


7. How do you rate your knowledge in this topic before attending the Session?

[Copy](#)

Mark only one circle

15 responses

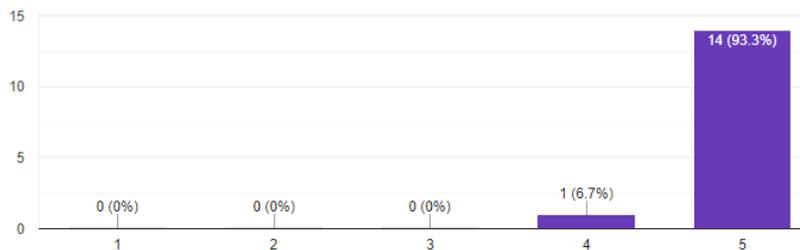


8. How do you rate your knowledge in this topic after attending the Session?

[Copy](#)

Mark only one circle

15 responses



### 9. Any other feedback

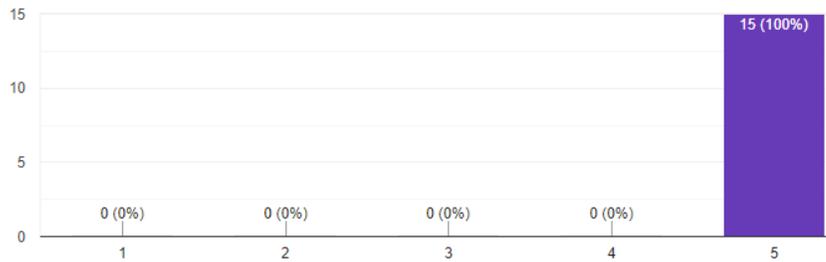
Good arrangement of the whole schedule of experiments
Resource persons are very knowledgeable and very co-operative
Good
Very well arranged.
Quite informative and knowledgeable
Dr Shilpi Das is extremely meticulous. Feels good to be learning from her
Very informative sessions.
Very methodical workshop. Thanks
Good

## Day 2, Aug 5 2023

6. How do you rate this Session on a scale of 1 to 5

 Copy

15 responses

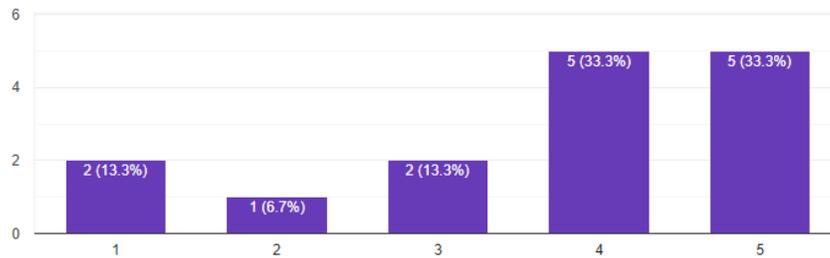


7. How do you rate your knowledge in this topic before attending the Session?

 Copy

Mark only one circle

15 responses

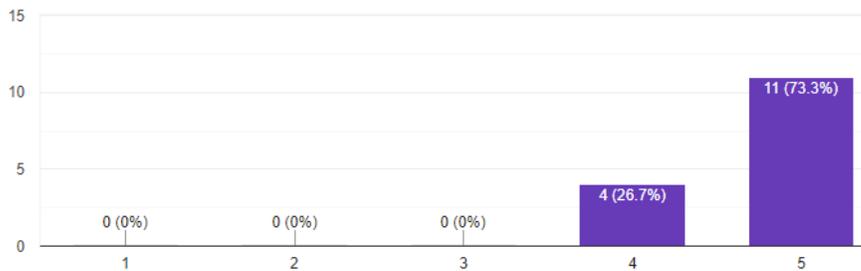


8. How do you rate your knowledge in this topic after attending the Session?

 Copy

Mark only one circle

15 responses



### 9. Any other feedback

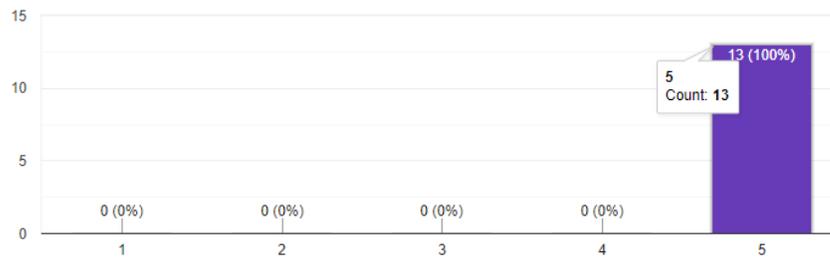
Nicely arranged workshop with very good instructors
All resource persons are very knowledgeable and very co-operative
Instructors, facility and arrangement are very good.
Good
Nice
Comprehensive session and demonstration
Very enjoyable
Impressed with the excellent management of time. A day of much learning. Looking forward to more practice in the week ahead 🙌
Very informative sessions
Very well organized FDP

## Day 3, Aug 7 2023

6. How do you rate this Session on a scale of 1 to 5

[Copy](#)

13 responses

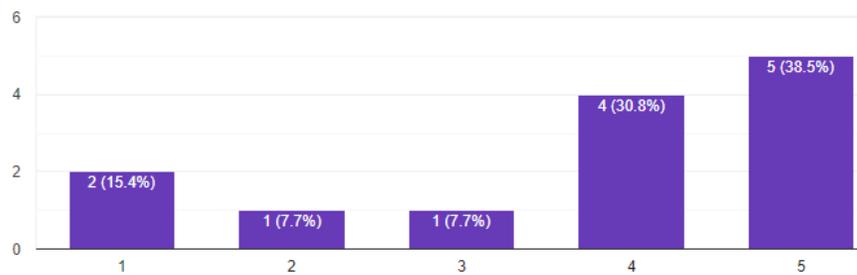


7. How do you rate your knowledge in this topic before attending the Session?

[Copy](#)

Mark only one circle

13 responses

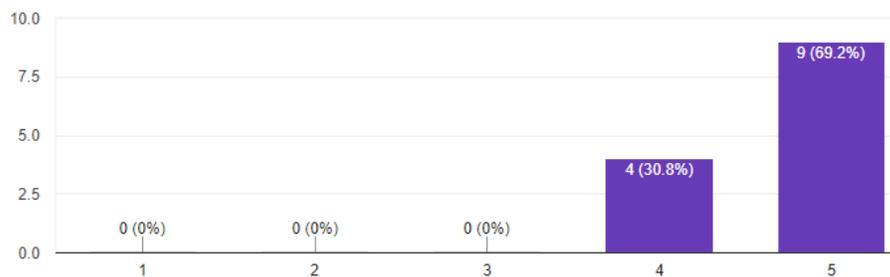


8. How do you rate your knowledge in this topic after attending the Session?

[Copy](#)

Mark only one circle

13 responses



## 9. Any other feedback

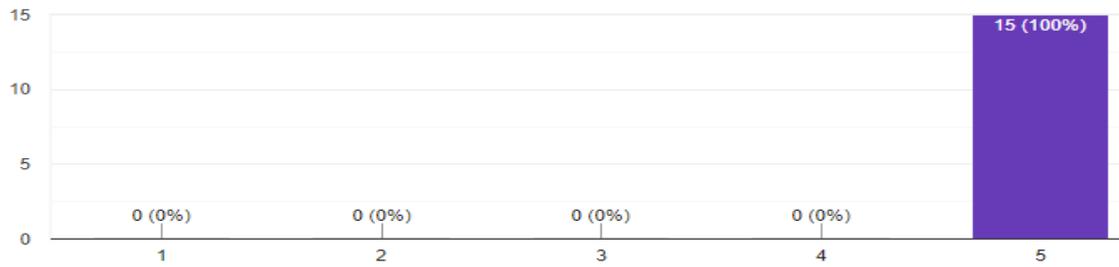
All gud
Good
Very interesting lectures by Prof Amita and Prof Chaudhary
Very good hands on training was given along with theory explanation.
Resource persons are very knowledgeable
Well organised.
Very informative sessions
Enjoyed learning the basics of plasmid isolation, agarose gel electrophoresis and PCR. The lectures were great 🖱

## Day 4, Aug 8 2023

6. How do you rate this Session on a scale of 1 to 5

 Copy

15 responses

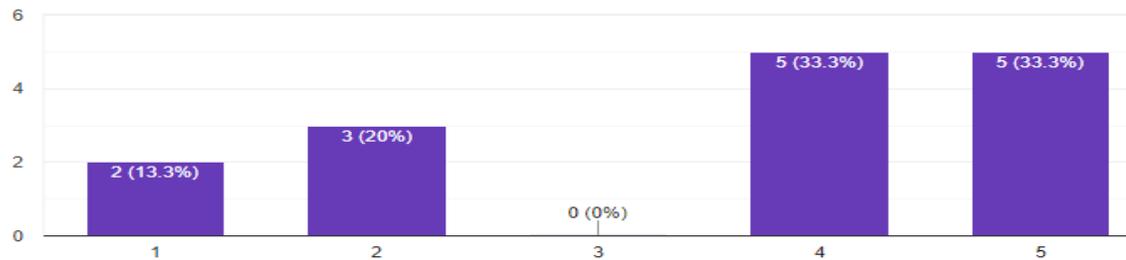


7. How do you rate your knowledge in this topic before attending the Session?

 Copy

Mark only one circle

15 responses

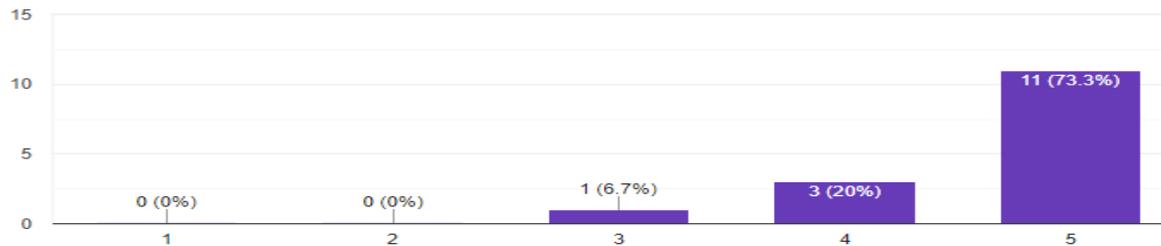


8. How do you rate your knowledge in this topic after attending the Session?

 Copy

Mark only one circle

15 responses



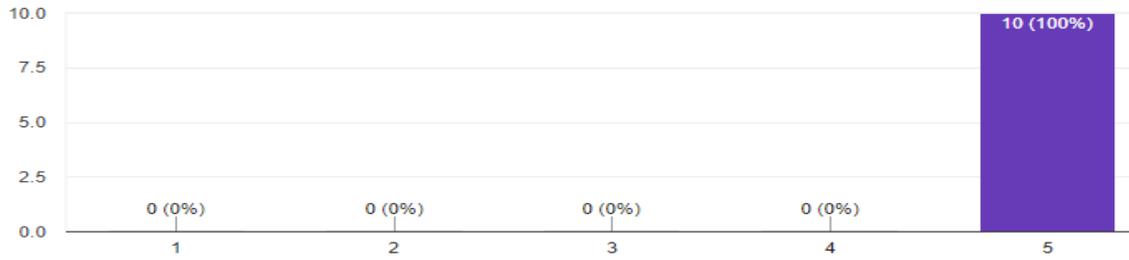
## 9. Any other feedback

Well Organised
Resource persons are very knowledgeable
All good
Very good sessions.
Excellent Day
The opportunity to work hands on is invaluable. Enjoyed the lectures.
Good
Very interesting lecture in the evening .

6. How do you rate this Session on a scale of 1 to 5

[Copy](#)

10 responses

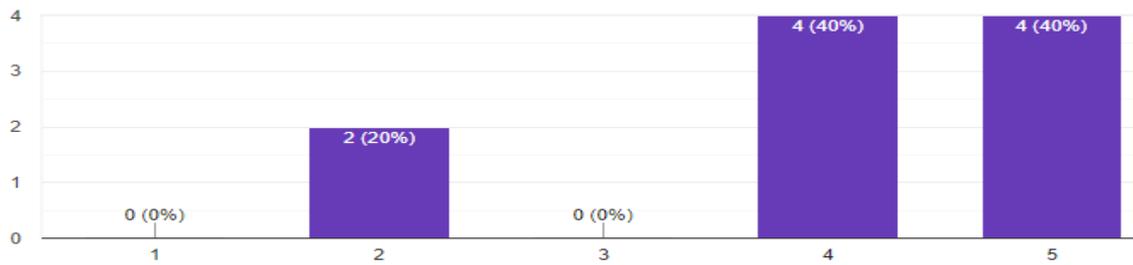


7. How do you rate your knowledge in this topic before attending the Session?

[Copy](#)

Mark only one circle

10 responses

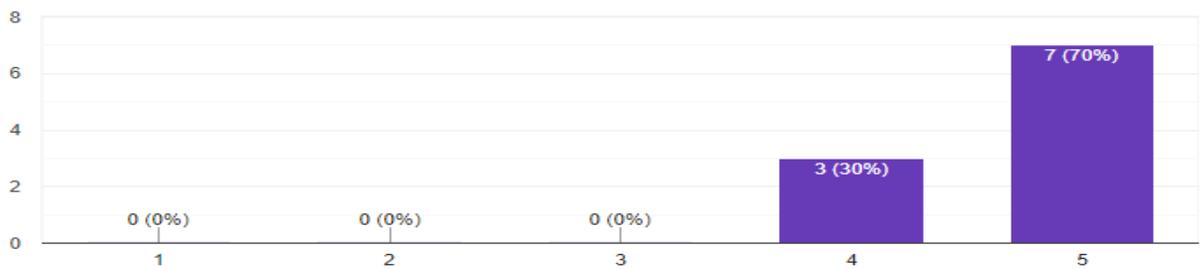


8. How do you rate your knowledge in this topic after attending the Session?

[Copy](#)

Mark only one circle

10 responses



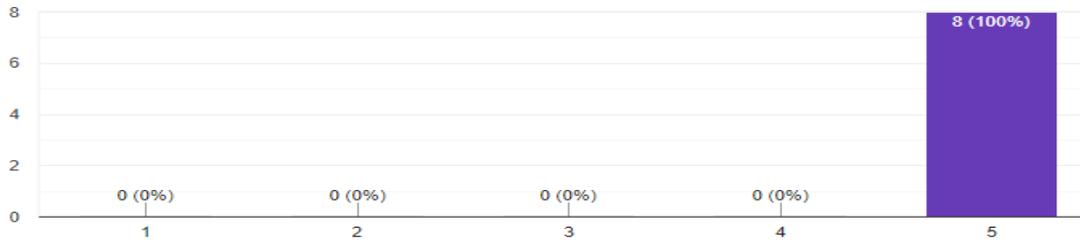
9. Any other feedback

Informative sessions
Good
Great session with hands on experience
Resource persons are very knowledgeable

6. How do you rate this Session on a scale of 1 to 5

 Copy

8 responses

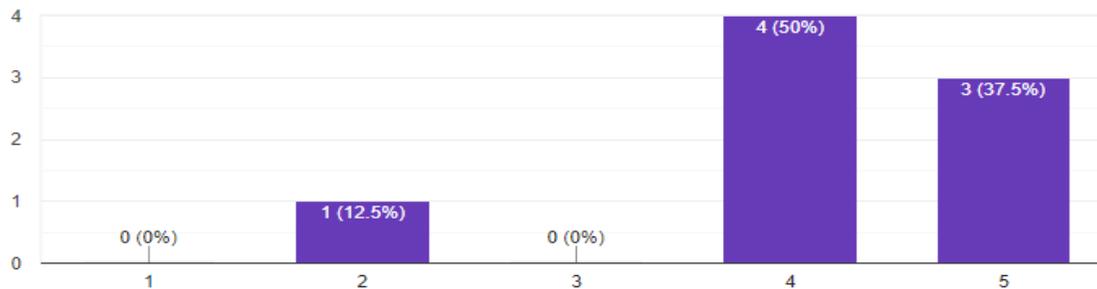


7. How do you rate your knowledge in this topic before attending the Session?

 Copy

Mark only one circle

8 responses

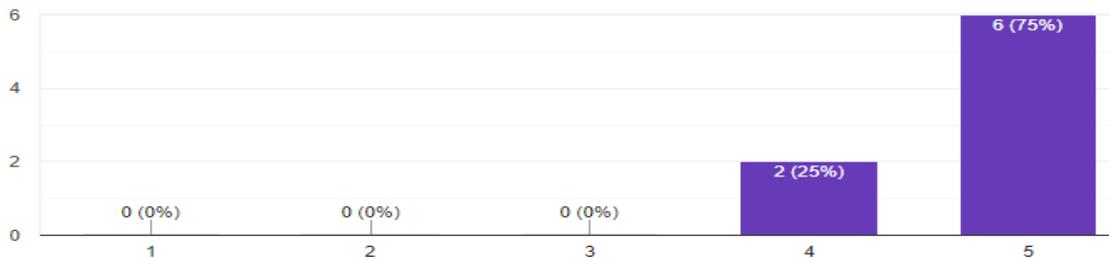


8. How do you rate your knowledge in this topic after attending the Session?

 Copy

Mark only one circle

8 responses



### 9. Any other feedback

All gud
All resource persons are very knowledgeable
Well Organised.
Amazing experience of becoming a student again .

## Overall Feedback, Day 7, 11 Aug 2023

2. How do you rate your overall experience of attending this FDP in scale of 1 to 5 , 1 being lowest and 5 being highest.

Rating by All the participants was “5’

### 3. Five Takeaways from this FDP \*

Very informative
Hands on of Plasmid DNA isolation from alkaline lysis Method was described in details. Absolute quantification of PCR amplified DNA, Basic Concepts of PCR, gDNA isolation from different plant leaves.
Isolation of genomic DNA quantification of DNA PCR agrose gel electrophoresis and
Sound Aseptic technique and it's importance in the handling of reagents & genomic samples, Plasmid isolation, prokaryotic genome isolation technique, plant genome isolation technique and basics of PCR (plus the importance of teamwork)
Good lab practices, research orientation, techniques, hands on experience, excellent lectures
Discipline in Research, Motivation for further application of the techniques used, It helped us for potentially improving teaching learning process.
Learning is an ongoing process, Take the knowledge to your college, It is important to be conversant with the new technology and innovations, We can start these skill. Ourses and make the students job ready for the coming future jobs and it is a reju ination time for teachers also when they become students.
Discipline in Research, Motivation for further application of the techniques used, It helped us for potentially improving teaching learning process.
I refreshed my skills on Bacterial culture, Plasmid isolation, PCR, Genomic and DNA isolation. Genomic DNA isolation from plant sample was completely new for me. I also enjoyed the class lectures by Prof. Amita ma'am and Prof. Vijay Chaudhary sir. They cleared all our doubts regarding the experiments.
Everything about this FDP was excellent, research orientated resource persons, techniques, extensive hands on experience, excellent lectures
Good research can be done in the colleges, even with less facilities, I am impressed with the facilities that the dept. of microbiology at RLAC has.
Discipline, teaching and learning can be fun, Motivation, It helped us to learn how to improveteaching learning process.
Very informative
Great excersises designed for evaluation, importance of hands-on, work culture, importance of understanding the basic concepts

4 How do you rate the session on basic Microbiology techniques	4 How do you rate the session on plasmid DNA isolation	4 How do you rate the sessions on PCR	4 How do you rate the sessions on Genomic DNA isolation
--	--	---------------------------------------	---

Rating by All the participants for all sessions was “5’

<b>5. Write Names of 5-6 Resource Persons whom you liked most *</b>
All resource persons
Prof. Amita Gupta, Prof. V K Chaudhary, Prof. Vandana Gupta, Shilpi Das, Navneet Kaur
Ms. Surbhi Chauhan Prof. Amita Gupta Ms. Navneet kaur Dr. Salome John
Dr Shilpi Das, Surbhi Chaudhry, Navneet Kaur, Prof Amita Gupta, Prof VK Chaudhary, Prof Vandana Gupta
Mrs. Shilpi, Ms. Navneet, Prof Vandana Gupta, Prof. VK Choudhary, Ms. Mansi, Ms. Prerna
Prof. Vijay Chaudhary, Prof. Amita Gupta, Ms Surabhi, Ms Navneet Kaur, Prof. Vandana Gupta, Prof. Prerna Diwan, Ms Mansi Podia Ms

Prof Amita Gupta, Prof VK Chaudhary, Prof Vandana Gupta, Prof Prerna Dewan, Dr Shilpi Das, Surbhi, Navneet, Mansi, Prerna and Shashi
Prof. Vijay Chaudhary, Prof. Amita Gupta, Ms Surabhi, Ms Navneet Kaur, Prof. Vandana Gupta, Prof. Prerna Diwan, Ms Mansi Podia
Dr. Shilpi Das, Ms. Surbhi Chauhan, Ms. Navneet Kaur, Ms. Mansi Podia and Ms. Prerna Yadav
All resource persons
Prof. V K Chaudhary, Prof. Amita Gupta, Prof. Vandana Gupta, Shilpi Das, Navneet Kaur
Ms. Surbhi Chauhan, Prof. Amita Gupta, Ms. Navneet kaur
Prof. VK Chaudhary
All resource persons

<b>6. Give minimum 2-3 sessions you think have scope of improvement. Please mention *</b>
All sessions are very informative
Lectures can more interactive. Gel Electrophoresis, Preparation of Media
PCR product purification PCR amplification and isolation of genomic DNA
More time for eukaryotic Genome isolation
NA
All the sessions were adequately planned and properly executed
All sessions were excellent well planned in advance and hands was also a very good experience .
All the sessions were adequately planned and properly executed
NIL
It can't be better, All the sessions were conducted efficiently, sessions were adequately planned and properly executed
None
NA
I have never seen a better FDP, All the sessions were conducted in a manner that everyone had something to learn
None

<b>7. Which topics would you like GAD-TLC to consider in the conduct of future workshop and training programs? *</b>
Plasmid extraction
Recombinant DNA technology, Real Time PCR, Protein expression and purification
Cloning
Cheese-making, Handling of yeasts (cultivation and growth inhibition), Fermented foods and beverages
Primer designing, NGS, RT PCR
Bioinformatics to help to draw evolutionary relationships between different species
Rt PCR, DNA sequencing
Bioinformatics to help to draw evolutionary relationships between different species
Basic training in Bioinformatics.
real time PCR
qualitative PCR
ELISA
Bioinformatics.
Cloning

<b>8. Any other Suggestion?</b>
Very informative
Thank you for the overall informative sessions which were well placed and nice hospitality.
NA
Please keep organizing hands-on workshops for teachers. The opportunity to learn the principles by actually performing, is priceless. The opportunity to learn from experienced peers and established stalwarts is great!
NA
Overall the FDP was very beneficial to the teachers. We learnt what can be the best within the stipulated time period. In addition total RNA extraction and few variations of PCR ( eg. RT-PCR) can be accomodated in Genomics FDPs.in future
We should have such workshops regularly to hone the skulls of the Trainers . It is important to train the trainers for higher efficiency in teaching learning process.
Overall the FDP was very beneficial to the teachers. We learnt what can be the best within the stipulated time period. In addition total RNA extraction and few variations of PCR ( eg. RT-PCR) can be accomodated in Genomics FDPs.in future
NIL
kindly organize more of such hands-on workshops for teachers.
No
More of such FDPs are needed
No
None

#### **Any other feedback**

All the participants gave very positive feedback on the FDP. On the valedictory event day, Dr Lakshmi Pasricha Sarin, Dr. Tarun Kumar and Dr. Sunil Kumar Dhiman among the participants thanked to RLA and CIIDRET teams for organizing this focused FDP and hospitality provided by the college throughout. They also felt that all the resource persons were extremely good in the topics that they dealt with and also felt the need of conduct of more of such FDPs with extensive hands-on training.