



# GEMS ARTS AND SCIENCE COLLEGE

An ISO 9001 : 2015 Certified Institution

(A Unit of Global Education and Management Studies Co-operative Ltd., No. M. 782)

(Affiliated to University of Calicut and UGC Recognized under Section 2 (f) of UGC Act 1956)

Ramapuram, Kadungapuram P.O, Malappuram Dt., Kerala. Pin - 679 321, Ph : 04933-256123, 255700

www.gemsasc.ac.in, email: gemsasc@gmail.com

## Letter of Collaboration

Date: 03/05/2022

Place: Ramapuram

GEMS Arts and Science College and

Unibiosys Biotech Research Labs; South Kalamassery.

Has signed a letter of collaboration/MoU on 22-12-2021

This Collaboration is for conducting the program entitled:

Academic Project works for students.

on 2021-22 with 27 number of participants.

Principal

GEMS Arts and Science College

Dr. NAVEEN MOHAN  
PRINCIPAL  
GEMS ARTS AND SCIENCE COLLEGE  
KADUNGAPURAM (PO), RAMAPURAM  
MALAPPURAM DT., KERALA-679 321



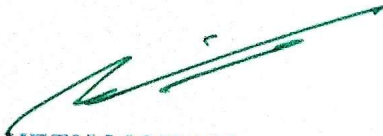
# **ACTIVITY REPORT**

## **UNIBIOSYS PROJECT WORKS (2021-22)**

During the academic year 2021-22, the students of BSc Microbiology at Gems Arts and Science College completed their 6th-semester dissertation work in Unibiosys biotech research labs, South Kalamaserry. 27 students have successfully completed their project works in the concerned institution. The details of the student's project works are given below;

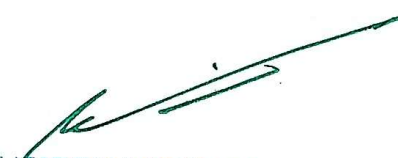
<b>SL.NO</b>	<b>REG.NO</b>	<b>STUDENT NAME</b>	<b>TOPIC OF DISSERTATION</b>
1	GGATSMB001	Adhila Musthafa	Isolation, quantification, and molecular identification of PHB-producing bacteria from the waste sample
2	GGATSMB012	Ramees	
3	GGATSMB019	Rinsha.K	
4	GGATSMB026	Fathimath Shahla. V	
5	GGATSMB030	Shaima. E.C	
6	GGATSMB036	Mohammed Anshad. P	
7	GGATSMB003	Fidha .K.K	Molecular identification of biofilm-forming <i>Pseudomonas fluorescens</i> isolated from water bodies
8	GGATSMB021	Arya.V	
9	GGATSMB029	Rasli. P.T	
10	GGATSMB004	Hanan Nazer Mangarathodi	Identification of potential antagonistic bacteria lactobacillus species against biofilm forming <i>Klebsiella pneumonia</i> .
11	GGATSMB008	Rinsha .P	
12	GGATSMB005	Harsha Jasmin	Identification of gene involved in pseudomonas fluorescent for the formation of biofilm
13	GGATSMB025	Fathima Salwa. K.T	



  
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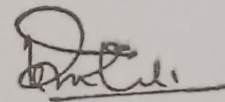
14	GGATSMB010	Muhammed Shibily.T	Isolation, quantification, molecular identification of polygalacturonase-producing bacteria from decayed fruits.
15	GGATSMB013	Shibily Nihal. A. T	
16	GGATSMB037	Mohammed Shifin roshan	
17	GGATSMB038	Muhammed Sajid.N	
18	GGATSMB039	SUFAIL.P	
19	GGATSMB011	NABHAN	Molecular detection of extended-spectrum $\beta$ -lactamase genes in <i>Klebsiella</i> clinical isolates from urine sample
20	GGATSMB023	AYISHA AHLAM	
21	GGATSMB024	FASILA SHERIN.K	
22	GGATSMB028	NIHALA.C.M	
23	GGATSMB032	THAJREEFA.T	
24	GGATSMB035	GOKUL.A	
25	GGATSMB015	ARYADAS. K	Identification of potential antagonistic bacteria lactobacillus species against biofilm-forming <i>Klebsiella pneumonia</i>
26	GGATSMB016	FATHIMA HUDHA.M.K	
27	GGATSMB020	UMMU HANIYYA	



  
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**CERTIFICATE**

This is to certify that the dissertation entitled **“Isolation, quantification and molecular identification of PHB producing bacteria from waste sample”** is a bonafide record of the original research work done by **Ms. Adila Musthafa, Gems college, Ramapuram** partial fulfillment of the requirement for the award of **‘Degree of Bachelor of Science in Microbiology’** during the period of her study in the Department of Microbiology, under my direct supervision & guidance.

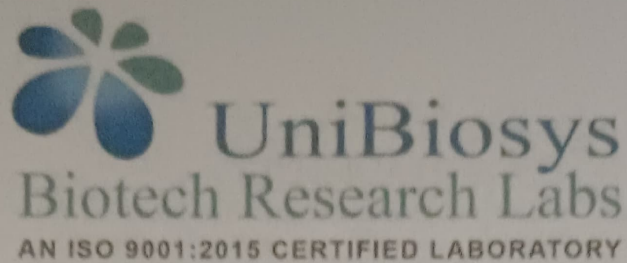


South Kalamaserry

Dr. K.S Rishad

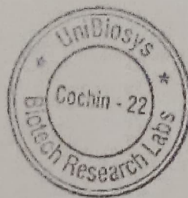
22/04/2022

(Supervising Guide)



## CERTIFICATE

This is to certify that the dissertation entitled “**MOLECULAR IDENTIFICATION OF BIOFILM FORMING *Pseudomonas fluorescens* ISOLATED FROM WATER BODIES**” is a bonafide record of the original research work done by **Ms. FIDHA K K, Gems Arts and Science Collage, Ramapuram** partial fulfillment of the requirement for the award of ‘**Degree of Bachelor of Science in Microbiology**’ during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



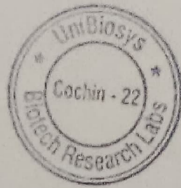
**South Kalamaserry**

**22/04/2022**

**Dr. K.S Rishad**  
**(Supervising Guide)**

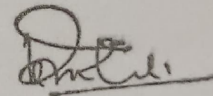
**CERTIFICATE**

This is to certify that the dissertation entitled “**identification of potential antagonistic bacteria lactobacillus species against biofilm forming *Klebsiella pneumoniae***” is a bonafide record of the original research work done by **Ms. Hanan Nazer Mangarathodi, Gems college, Ramapuram** partial fulfillment of the requirement for the award of ‘**Degree of Bachelor of Science in Microbiology**’ during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



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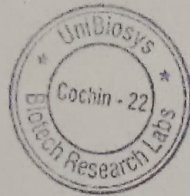


Dr. K.S Rishad

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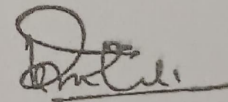
**CERTIFICATE**

This is to certify that the dissertation entitled “**Identification of Gene that Involved in *Pseudomonas fluorescens* For the Formation of Biofilm**” is a bonafide record of the original research work done by **Ms. Harsha jasmin, Gems college, Ramapuram** partial fulfillment of the requirement for the award of ‘**Degree of Bachelor of Science in Microbiology**’ during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



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**22/04/2022**

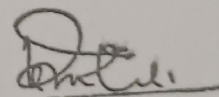
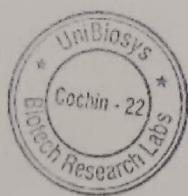


**Dr. K.S Rishad**

**(Supervising Guide)**

### CERTIFICATE

This is to certify that the dissertation entitled “**Molecular detection of extended spectrum  $\beta$ -lactamase genes in *Klebsiella* clinical isolates from urine samples**” is a bonafide record of the original research work done by **Ms. Ayisha ahlam, Gems college, Ramapuram** partial fulfillment of the requirement for the award of ‘**Degree of Bachelor of Science in Microbiology**’ during the period of his study in the Department of Microbiology, under my direct supervision & guidance.



South Kalamaserry

Dr. K.S Rishad

22/04/2022

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