



# 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: 11/09/2020

Place: Ramapuram.

GEMS Arts and Science College and

Genobio Research centre, Parappur Road, Kottakkal.

Has signed a letter of collaboration/MoU on 25.12.2020

This Collaboration is for conducting the program entitled:

Academic  
Project works for students

on 2020-21 with 5 number of participants.

Principal

GEMS Arts and Science College

Dr. NAVEEN MOHAN  
PRINCIPAL

GEMS ARTS AND SCIENCE COLLEGE  
KADUNGPURAM P.O, MALAPPURAM  
MALAPPURAM DT., KERALA - 679 321



For Geno Bio



Proprietor





# Geno Bio

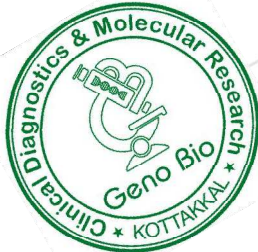
Clinical Diagnostics &  
Molecular Research

## Certificate

This is to certify that the dissertation entitled “**Pharmaceutical activity of *Cinnamomum tamala*(Indian Bay leaf) against Urinary tract infection**” is piece of authentic record of work carried out by **Ms. AMRUTHA M** of 4<sup>th</sup> semester MSc Microbiology, GEMS Arts and Science College, Ramapuram, under my guidance and supervision.

**Kottakkal**  
**27/08/2020**

  
**Mr. Mohamed Musthafa E.P.**  
**(Supervising Guide)**



**Geno Bio** Clinical Diagnostics & Molecular Research

Near AWH Special School, Parappur Road, Kottakkal Malappuram Dt. Kerala - 676503  
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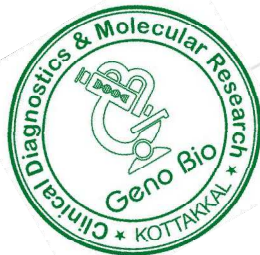
Clinical Diagnostics &  
Molecular Research

## Certificate

This is to certify that the dissertation entitled “Meat Preservation by using Bacteriocin produced Lactic Acid Bacteria isolated from Milk Samples” is piece of authentic record of work carried out by Mrs. NIHALA U.P. of 4<sup>th</sup> semester MSc Microbiology, GEMS Arts and Science College, Ramapuram, under my guidance and supervision.

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27/08/2020

  
Mr. Mohamed Musthafa E.P.  
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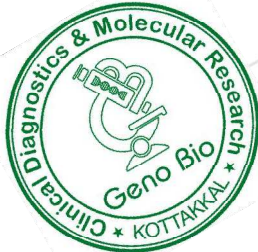
Clinical Diagnostics &  
Molecular Research

## Certificate

This is to certify that the dissertation entitled “**Antifungal potentiality of *Rhizophora mucronata* against fungal pathogens isolated from plant leaves**” is piece of authentic record of work carried out by **Ms. JAMSEERA ROSINI M** of 4<sup>th</sup> semester MSc Microbiology, GEMS Arts and Science College, Ramapuram, under my guidance and supervision.

Kottakkal  
27/08/2020

  
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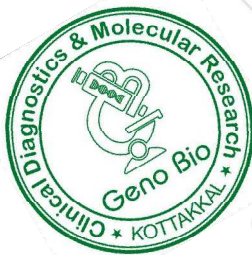
Clinical Diagnostics &  
Molecular Research

## Certificate

This is to certify that the dissertation entitled “**A Study of Antibacterial activity and Resistant profile of Tirur Betel leaf (Piper betle) against the Isolated Bacteria from Chicken farm soil**” is piece of authentic record of work carried out by **Mrs. SAMEERA VK** of 4<sup>th</sup> semester MSc Microbiology, GEMS Arts and Science College, Ramapuram, under my guidance and supervision.

**Kottakkal**  
**27/08/2020**

  
**Mr. Mohamed Musthafa E.P.**  
**(Supervising Guide)**



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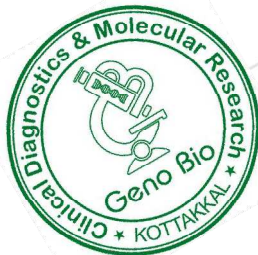
Clinical Diagnostics &  
Molecular Research

## Certificate

This is to certify that the dissertation entitled “**Antibiotic Resistant Bacteria isolated from Marine fish gut and Treated by Garcinia gummi-gutta fruit**” is piece of authentic record of work carried out by **Mrs. FATHIMATHUL FARISHA VK** of 4<sup>th</sup> semester MSc Microbiology, GEMS Arts and Science college, Ramapuram, under my guidance and supervision.

Kottakkal  
26/08/2021

  
Mr. Mohamed Musthafa E.P.  
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