



St. Thomas College, Pala

UGC APPROVED College with Potential for Excellence

CERTIFICATE

*Certified that this is a bonafide report of the project work entitled
“MEDICINAL PROPERTIES OF THE DIFFERENT
SOLVENT EXTRACTS OF THE FRUIT OF *Artocarpus*
hirsutus AGAINST CLINICALLY ISOLATED DIARRHEA
CAUSING *E. Coli*” Carried out by Mr. AJITH.M.R, Reg.
No:160011013023 in the Department of Applied microbiology &
Biotechnology St. Thomas College, Pala, under the guidance of Mr.
NOBY MATHEW during the academic year 2015- 2017 towards the
partial fulfillment of the requirement for the award of Masters Degree in
Biotechnology under Mahatma Gandhi University.*

Prof. James Joseph

PROF. JAMES JOSEPH
HEAD, DEPT. OF BIOTECHNOLOGY
Course Coordinator
ST. THOMAS COLLEGE

Mr. Noby Mathew

Faculty Member

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Palai

External examiner

Dr. Sajib Kumar Saha



St. Thomas College, Pala

UGC Approved College with Potential for Excellence

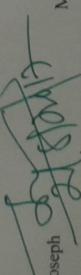
(Reaccredited by NAAC with A Grade)

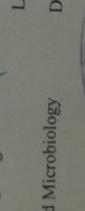
Affiliated to M.G. University Kottayam

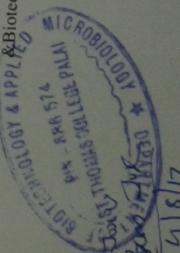
DEPARTMENT OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY ARUNAPURAM P O, PALAI, KOTTAYAM, KERALA

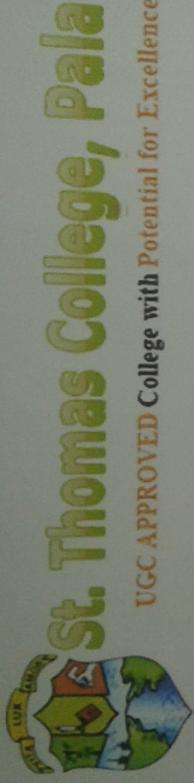
CERTIFICATE

This is to certify that the project work entitled "STUDY ON THE EFFECT OF LOW LEVEL LASER ON EXPRESSION OF TELOMERASE REVERSE TRANSCRIPTASE IN HUMAN MELANOMA CELLS" is an authentic record of the work carried out by Ms. Amritha G.A, Reg. No: 150011015821 in the Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai, under the guidance of Mr. Rajesh Ramachandran, Biogenix Research Center, Center for Molecular Biology and Applied Science, Poojapura, Trivandrum, Kerala and the internal guidance of Ms. Praveena George, Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai during the academic year 2015-2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.


Prof. James Joseph
Course Coordinator
Department of Applied Microbiology
& Biotechnology


Ms. Praveena George
Lecturer
Department of Applied Microbiology
& Biotechnology

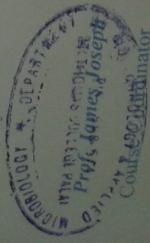

Examiners
1. Dr. V. D. Balaji
2. Prof. B. M. Venkatesan
Date: 18/1/17



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CERTIFICATE

*Certified that this is a bonafide report of the project work entitled
ANTIBACTERIAL ACTIVITIES OF THE LEAF
EXTRACT OF *Hevea brasiliensis* AGAINST MASTITIS
CAUSING BACTERIAL PATHOGENS" Carried out by Miss.
ARCHANA MOHANAN, Reg. No: 150011014160 in the Department of
Applied microbiology & Biotechnology St. Thomas College, Pala, under
the guidance of Mr. NOBY MATHEW during the academic year 2015-
2017 towards the partial fulfillment of the requirement for the award of
Masters Degree in Applied Microbiology under Mahatma Gandhi
University.*



Mr. Noby Mathew
Faculty Member
Dept. of Applied Microbiology & Biotechnology
St. Thomas College Pala

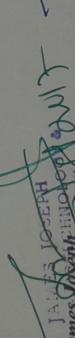
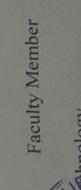
HIGH LEVEL SCIENCES INSTITUTE
SCIENCE

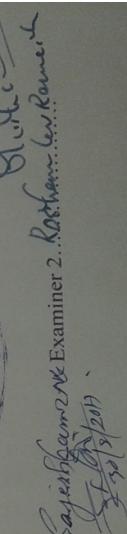


UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled
“ANTIBACTERIAL ACTIVITY OF FLOWER EXTRACTS OF Caesalpinia
pulcherrima AGAINST EYE INFECTION CAUSING PATHOGENS” Carried out
by Miss. ATHIRA T. RAMESHAN, Reg. No:150011014161 in the Department of
Applied microbiology & Biotechnology St. Thomas College, Pala, under the
guidance of Mr. NOBY MATHEW during the academic year 2015-2017 towards
the partial fulfillment of the requirement for the award of Masters Degree in
Biotechnology under Mahatma Gandhi University.



PROF. JAMES JOSEPH
PROF. NOBY MATHEW
HEAD OF DEPARTMENT
APPLIED MICROBIOLOGY & BIOTECHNOLOGY
COLLEGE OF APPLIED SCIENCE & TECHNOLOGY & APPLIED
CONSTRUCTION
Arunapurni P. O. - P. O. - P. O.
PALA - 686 524
Dept. of Applied Microbiology & Biotechnology
St. Thomas College, Pala
19/10/2017


Dr. Rajeshwaran Examiner 2, Rathnam & Ranjith
22/9/2017



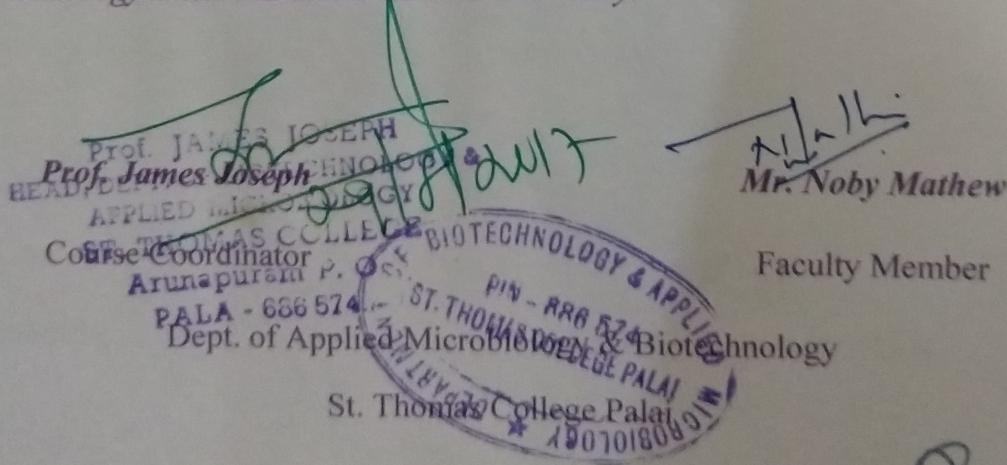


St. Thomas College, Pala

UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled "**ANTIBACTERIAL ACTIVITY OF FLOWER EXTRACTS OF Caesalpinia pulcherima AGAINST EYE INFECTION CAUSING PATHOGENS**" Carried out by Miss. **ATHIRA T. RAMESHAN**, Reg. No:**150011014161** in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of **Mr. NOBY MATHEW** during the academic year 2015- 2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.



Examiner 1. Dr. Sajeshkumar
Examiner 2. Roshan Dev Ramesh
[Handwritten signatures of Dr. Sajeshkumar and Roshan Dev Ramesh]
[Handwritten signature of Date: 30/8/2017]



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DEPARTMENT OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY

ARUNAPURAM P.O., PALAI, KOTTAYAM, KERALA

CERTIFICATE

This is to certify that the project work entitled "Anticancer activity of *Terminalia chebula* Retz in HepG2 liver cancer cell line" is an authentic record of the work carried out by Ms. Athira Unnikrishnan, Reg. No: 150011015820 in the Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai, under the guidance of Dr. P.J. Wills, PhD Senior Scientist, MIMS Research Foundation, Mayon building, Valayanad Temple Road, Mankavu P.O.Calicut-673 007, Kerala and the internal guidance of Ms. Simi Jacob Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai during the academic year 2015-2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.

Prof. James Joseph

Course Coordinator

Department of Applied Microbiology
& Biotechnology

Examiners

1. Dr. Poornima Devi ✓ *Burzda*
4/8/17

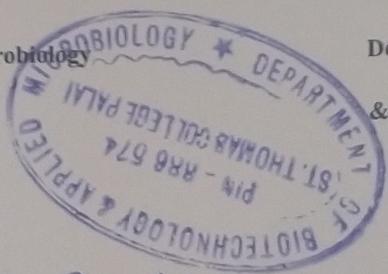
2.

Ms. Simi Jacob

Lecturer

Department of Applied Microbiology

& Biotechnology

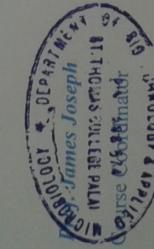




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CERTIFICATE

*Certified that this is a bonafide report of the project work entitled
“ANTIBACTERIAL ACTIVITIES OF *Piper longum* LEAF EXTRACT
AGAINST DENTAL CARIES CAUSING CLINICAL ISOLATES” carried
out by Miss ATHIRA V.M, Reg.No: in the Department of Applied microbiology &
Biotechnology, St. Thomas College, Pala, under the guidance of Mr. NOBY
MATHEW during the academic year 2015- 2017 towards the partial fulfillment of
the requirement for the award of Masters Degree in Applied Microbiology under
Mahatma Gandhi University.*



Mr. Nothy Mathew
Supervising Guide

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Palai

Mr. Nothy Mathew
Examiner.....



St. Thomas College, Pala

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DEPARTMENT OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY

ARUNAPURAM P O, PALAI, KOTTAYAM, KERALA

CERTIFICATE

This is to certify that the project work entitled "**2-METHOXY ESTRADIOL MODULATES ESTROGEN- α RECEPTOR BINDING AND INDUCES CELL DEATH IN CERVICAL CANCER**" is an authentic record of the work carried out by **Ms. Bhama Francis, Reg. No: 150011015821** in the Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai, under the guidance of **Mr. Rajesh Ramachandran, Biogenix Research Center, Center for Molecular Biology and Applied Science, Poojapura, Trivandrum, Kerala** and the internal guidance of **Ms. Praveena George, Department of Applied Microbiology & Biotechnology, St.Thomas College, Palai** during the academic year 2015-2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.

Prof. James Joseph

Course Coordinator

Department of Applied Microbiology

& Biotechnology

Examiners

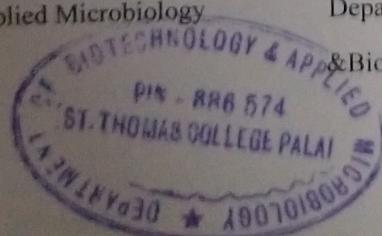
1. Dr. Sam Jox V (Bun 902)
6/8/17
- 2.

Ms. Praveena George

Lecturer

Department of Applied Microbiology

& Biotechnology





UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled

"EFFECT OF SODIUM BENZOATE ON XYLITOL PRODUCTION

BY Debaryomyces nepalensis NCYC 3413" *Carried out by Ms. Bhavya S,
Reg. No: 150011015822 in the Department of Biotechnology, Indian
Institute of Technology, Madras under the guidance of Prof.*

Sathyanaarayana N. Gummadi *during the academic year 2015-2017
towards the partial fulfillment of the requirement for the award of Masters
Degree in Biotechnology under Mahatma Gandhi University, Kottayam,*

Kerala.

Prof. James Joseph

Course Coordinator
Department of Biotechnology & Applied Microbiology, St. Thomas College Pala
MICROBIOLOGY & APPLIED BIOTECHNOLOGY
18/11/2018

Mrs. Anupama K S

Lecturer
Department of Biotechnology & Applied Microbiology
St. Thomas College Pala
MICROBIOLOGY & APPLIED BIOTECHNOLOGY
18/11/2018



DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST. THOMAS COLLEGE

PALA

CERTIFICATE

Certified that this is a bonafide report of the project work entitled
**“OPTIMIZATION OF MEDIA FORMULATIONS FOR CALLUS
INDUCTION, AND DIRECT ORGANOGENESIS IN JUSTICIA
GENDARUSSA BURM FIL., AN EXOTIC MEDICINAL PLANT”**

*Carried out by ELIZABETH CHERIAN, Reg. No: 150011015823 in the
Department of Applied microbiology & Biotechnology St. Thomas
College, Pala, under the guidance of Mr. NOBY MATHEW during the
academic year 2015- 2017 towards the partial fulfillment of the
requirement for the award of Masters Degree in Biotechnology under
Mahatma Gandhi University.*

*Mr. Noby Mathew
Faculty member
Department of Biotechnology
& Applied Microbiology*

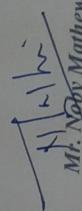
*Mr. Noby Mathew
Faculty member
Department of Biotechnology
& Applied Microbiology*

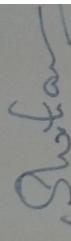
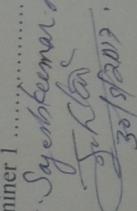
SELECTION 245
7 RANK
10 RANK
Sandi Ladke

CERTIFICATE

Certified that this is a bonafide report of the project work entitled "Naregamia alata, A MEDICINAL REMEDY FOR MASTITIS" Carried out by Miss. HANNA THOMAS, Reg. No:150011014161 in the Department of Applied microbiology & Biotechnology St. Thomas College, Palai, under the guidance of Mr. NOBY MATHEW during the academic year 2012- 2014 towards the partial fulfillment of the requirement for the award of Masters Degree in Applied microbiology under Mahatma Gandhi University.


Prof. James Joseph
HEAD, DEPT. OF BIOTECHNOLOGY & DEPARTMENT
COURSE COORDINATOR, BIOLOGY & DEPARTMENT
ST. THOMAS COLLEGE
ARUPAPURAM P.O., MELTALINGAMPALI
PALA - 689742, APPLIED MICROBIOLOGY & BIOTECHNOLOGY
St. Thomas College Palai


Mr. Noby Mathew
Faculty Member

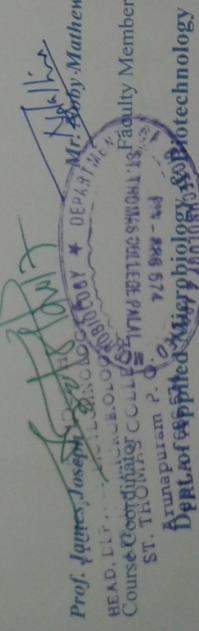

Dr. S. Subramanian,
Examiner 1

Prof. K. Venkateswaran,
Examiner 2
30/9/2017



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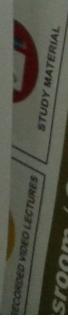
*Certified that this is a bonafide report of the project work entitled "Therapeutic Potential of *Passiflora edulis* var. *flavicarpa* Leaves against *Streptococcus* Isolates from Decayed Tooth Sample" carried out by Mr. Jeevan Mathew, Reg. No:150011014166 in the Department of Applied microbiology & Biotechnology St. Thomas College, Palai, under the guidance of Mr. NOBY MATHEW during the academic year 2015-2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Applied Microbiology under Mahatma Gandhi University.*



St. Thomas College Palai

External Examiner 1
Prof. James Joseph

External Examiner 2
Dr. Sajith Kumar



LMS
Zoom / Online Class Plan

Monsoon Session (Target Dec. 2020)
BATCH START



**DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST.THOMAS COLLEGE
PALA**

CERTIFICATE

*Certified that this is a bonafide report of the project work entitled
“THE INFLUENCE OF DIFFERENT HORMONE CONCENTRATION
AND COMBINATION ON DIRECT ORGANOGENESIS FROM THE
NODAL EXPLANTS OF ROUVOLFIA SERPENTINA(L.)BENTH” Carried
out by **JESNI K, Reg. No: 150011015824** in the Department of Applied
microbiology & Biotechnology St. Thomas College, Pala, under the
guidance of **Mr. NOBY MATHEW** during the academic year 2015- 2017
towards the partial fulfillment of the requirement for the award of Masters
Degree in Biotechnology under Mahatma Gandhi University.*

Prof. James Joseph

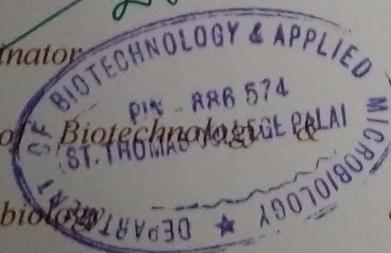
21/8/2017

Course Coordinator

Mr. Noby Mathew

Faculty Member

Department of



Department of Biotechnology

Applied microbiology

& Applied Microbiology

*Vahel
Dr. James Joseph
Bun Jox
4/8/17*

CERTIFICATE

Certified that this is a bonafide report of the project work entitled "Introductory studies on morphological characterization and genomic DNA isolation of selected land races in the germplasm repository of small cardamom (*Elettaria cardamomum Maton*)"Carried out by Miss JITYMOL SEBASTIAN , Reg. No: 150011015826 in the Department of Biotechnology St.Thomas College, Pala, under the guidance of Miss , Anupama K.S. during the academic year2015-2017 towards the partial fulfilment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.

Prof. James Joseph

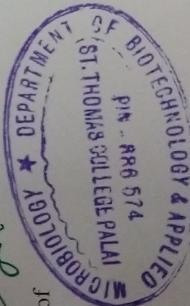
Miss: Anupama K.S.

Internal Project Guide

Department of Biotechnology

ST.Thomas college

Pala.



External viva- voce examination conducted on: 28/06/2017.....

External Examiner: Dr. Peter Doss Ben
11/8/17

Place:

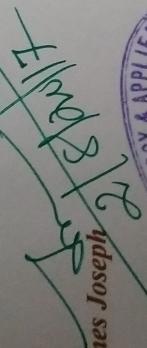
Date: 11/8/17



**DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST.THOMAS COLLEGE
PALA**

CERTIFICATE

Certified that this is a bonafide report of the project work entitled "Efficient in vitro callus induction protocol for three endemic medicinal plants *Cyrtella peltata*, *Naregamia alata*, and *Kaempferia galanga Linn*" Carried out by **LAKSHMI B NAIR**, Reg. No: 1500111015827 in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of **Mr. NOBY MATHEW** during the academic year 2015- 2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.


Prof. James Joseph

Course Coordinator



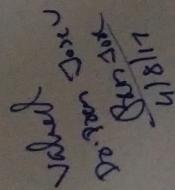
Department of Biotechnology
& Applied Microbiology

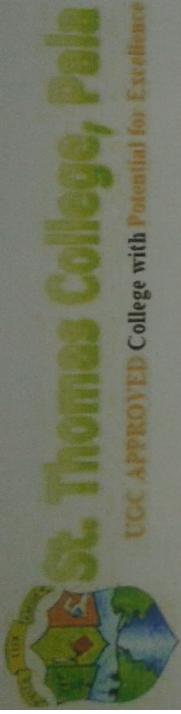

Mr. Noby Mathew

Faculty Member

Department of Biotechnology

& Applied Microbiology


Dr. Sunil



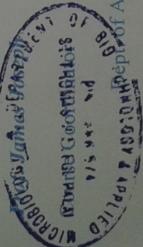
UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled
“PHARMACOLOGICAL ACTIVITY OF LEAVES OF *Thespesia populnea*
AGAINST CLINICAL ISOLATES FROM WOUND SAMPLES IN DIBITIC
PATIENTS” Carried out by Miss. LINTA MARIA THOMAS JOHN, Reg.
No:150011014167 in the Department of Applied microbiology & Biotechnology
St. Thomas College, Pala, under the guidance of Mr. NOBY MATHEW during the
academic year 2015 - 2017 towards the partial fulfillment of the requirement for the
award of Masters Degree in Biotechnology under Mahatma Gandhi University.

Mr. Noby Mathew

Faculty Member



St. Thomas College Pala

TOTAL SELECTION 242



RANK 7
Jayashri Ladke

TOTAL SELECTION 282
Rushan Choudhary
TOTAL SELECTION 10



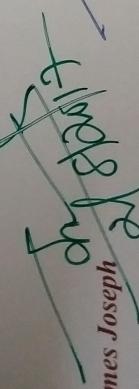
**DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST.THOMAS COLLEGE
PALA**

CERTIFICATE

Certified that this is a bonafide report of the project work entitled

"IN VITRO CULTURE STUDIES OF VERNONIA CINEREA (L.)

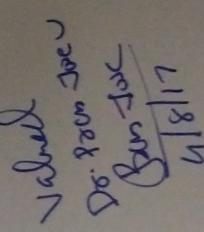
AN IMPORTANT MEDICINAL HERB" Carried out by MARYA SUNNY, Reg. No: 150011015828 in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of Mr. NOBY MATHEW during the academic year 2015 - 2017 towards the partial fulfilment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.

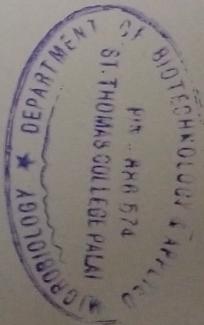

Prof. James Joseph

Course Coordinator

Department of Biotechnology & Department of Biotechnology

Applied microbiology & Applied Microbiology


Dr. Nobby Mathew
1/8/17





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CERTIFICATE

Certified that this is a bonafide report of my research work entitled "INFECTION CONTROL ACTIVITY OF LEAFTRACTS OF *Citruslimon* AGAINSTMULTIDRUG RESISTANT CLINICALISOLATES FROM WOUND SAMPLE"Carried out by Miss. NAMITHA SURESH, Reg. No:150011014168 in the Department of Applied microbiology & Biotechnology St.Thomas College, Pala, under the guidance of Mr. NOBY MATHEW during the academic year 2012- 2014 towards the partial fulfillment of the requirement for the award of Masters Degree in Applied Microbiology under Mahatma Gandhi University.

Prof. James Joseph
PROFESSOR OF MICROBIOLOGY
Co-ordinator of ALOPKA & AFA Faculty Member
Applied Microbiology & Biotechnology
ST. THOMAS COLLEGE
Aranapura
PALA - 611 101
External Examiners.

Dr. Sajitha K. R. N.
26/9/2017

Mr. Noby Mathew
Faculty Member
Applied Microbiology & Biotechnology
ST. THOMAS COLLEGE
Aranapura
PALA - 611 101
External Examiners.

	RANK	19
	RANK	19
- TOTAL SELECTION 282		
	RANK	10
	RANK	10

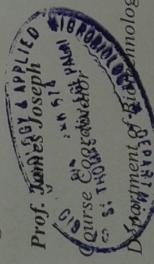


**DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST.THOMAS COLLEGE
PALA**

CERTIFICATE

*Certified that this is a bonafide report of the project work entitled
"Development of a simple, reproducible and efficient in vitro culture
protocol for callus proliferation and direct organogenesis from nodal
explants of *scoparia dulcis linn*,an exotic medicinal plant." Carried out
by PADMASREE P R, Reg. No: 150011015829 in the Department of
Applied microbiology & Biotechnology St. Thomas College, Pala, under the
guidance of Mr. NOBY MATHEW during the academic year 2015- 2017
towards the partial fulfilment of the requirement for the award of Masters
Degree in Biotechnology under Mahatma Gandhi University.*

*Mr. Noby Mathew
Faculty Member
Department of Biotechnology
& Applied Microbiology*





St. Thomas College, Pala

UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled

"ISOLATION AND CHARACTERIZATOIN OF ANKYRIN GENE

FROM PIPER NIGUM" Carried out by **Miss. Reshma Krishnan S R,**

Reg. No: 150011015830 in the Department of Biotechnology & Applied

Microbiology St.Thomas College, Pala, under the guidance of **Mr. NOBY**

MATHEW during the academic year 2015 - 2017 towards the partial

fulfillment of the requirement for the award of Master's Degree in

Biotechnology under Mahatma Gandhi University.

Prof. James Joseph

Course Coordinator

Mr. Noby Mathew

Lecturer

Department of Biotechnology

Department of Biotechnology

& Applied Microbiology

& Applied Microbiology

*Valued
Do. Sam
Bem Sare
4/8/17*





St. Thomas College, Pala

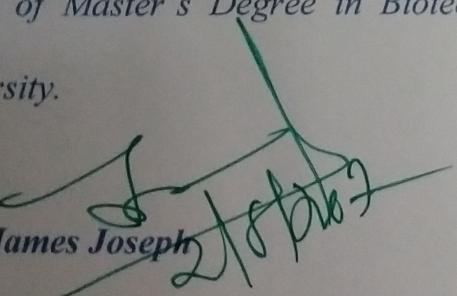
UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled

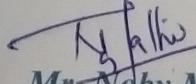
"DIFFERENTIAL EXPRESSION STUDY OF APOPTOSIS INDUCING GENE IN ZINGIBER-PYTHIUM PATHOSYSTEM"

*Carried out by Mr. Siva Prasad D.G, Reg. No: 150011015832 in the
Department of Biotechnology & Applied Microbiology St.Thomas College,
Pala, under the guidance of Mr. NOBY MATHEW during the academic
year 2015 - 2017 towards the partial fulfillment of the requirement for the
award of Master's Degree in Biotechnology under Mahatma Gandhi
University.*


Prof. James Joseph

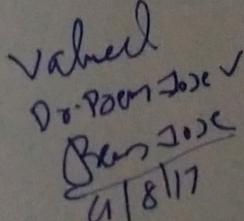
Course Coordinator

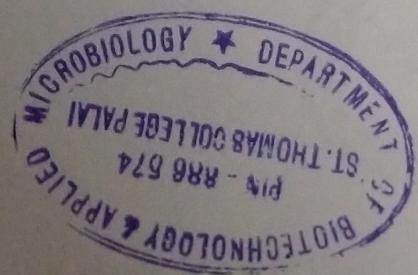
Department of Biotechnology
& Applied Microbiology


Mr. Noby Mathew

Lecturer

Department of Biotechnology
& Applied Microbiology


Valued
Dr. Poornima Ben
Date: 20/02/2018





St. Thomas College, Pala

UGC APPROVED College with Potential for Excellence

CERTIFICATE

Certified that this is a bonafide report of the project work entitled
"BIOCONTROL ACTIVITY OF LEAF EXTRACT OF Solanum
torvum AGAINST MULTI DRUG RESISTANT SKIN
INFECTON CAUSING CLINICAL ISOLATES" carried out by
Miss. THEERTHA V.P, Reg. No:150011014176 in the Department of
Applied microbiology & Biotechnology St. Thomas College, Pala,
under the guidance of Mr. NOBY MATHEW during the academic
year 2015- 2017 towards the partial fulfillment of the requirement for
the award of Masters Degree in Applied Microbiology under Mahatma
Gandhi University.

Prof. James Joseph
Course Coordinator
APPLIED MICROBIOLOGY & APPLIED FACULTY MEMBER

ST. T DEPARTMENT OF BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Aruna Pathak, M.Tech.
FALA - SGU 574
13-28-28-030 * 13-28-28-030 *

Examiners :

1.
2.

**DEPARTMENT OF APPLIED MICROBIOLOGY
& BIOTECHNOLOGY ST. THOMAS COLLEGE
PALA**



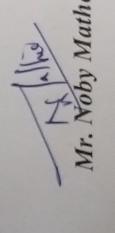
CERTIFICATE

Certified that this is a bonafide report of the project work entitled "PLANTLET REGENERATION THROUGH INDIRECT ORGANogenesis AND OPTIMIZATION OF MEDIA FORMULATIONS FOR CENTELLA ASIATICA LINN." Carried out by VAISHNAJA MOHAN V, Reg. No: 150011015833 in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of Mr. NOBY MATHEW during the academic year 2015-

2017 towards the partial fulfillment of the requirement for the award of Masters Degree in Biotechnology under Mahatma Gandhi University.


Prof. James Joseph

Course Coordinator


Mr. Noby Mathew

Faculty Member


Department of Biotechnology, St. Thomas College Pala
Applied microbiology & Applied biotechnology