

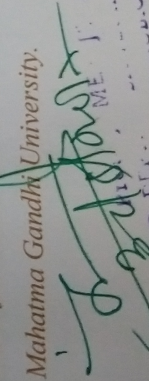


**St. Thomas College, Pala**

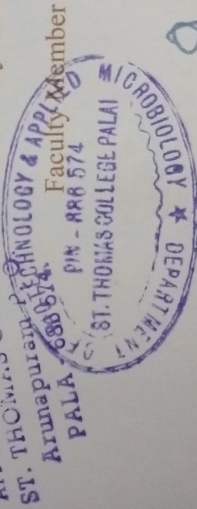
UGC APPROVED College with Potential for Excellence

## CERTIFICATE

*Certified that this is a bonafide report of the project work entitled*  
**Invitro ANTIBACTERIAL ACTIVITIES OF *Lantana camara* LEAF**  
**EXTRACT AGAINST ACNE CAUSING *Staphylococcus aureus*"**  
*Carried out by Miss. AMRUTHA M.K, Reg. No: 150011014157 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**   
HEAD, DEPARTMENT OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY  
ST. THOMAS COLLEGE

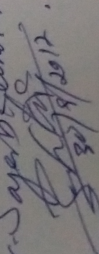
Course Coordinator

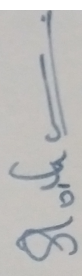


External Examiners:

1. Dr. Sajab Kumar N.K.

2. Rohan Lakshmi

  
30/11/2017





# St. Thomas College, Pala

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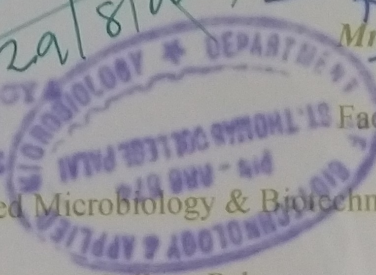
## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "A SCIENTIFIC STUDY ON THE FOOD PRESERVATIVE PROPERTY OF CINNAMON" Carried out by Miss. ANUSREE SURENDRAN, Reg. No:150011014159 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

ST. THOMAS COLLEGE  
Arunapattanam  
PALA - 689 574.



Mr. Noby Mathew

Faculty Member

Dept of Applied Microbiology & Biotechnology

St. Thomas College Pala

### Examiners

1. Dr. Sajithkumar

*[Signature]*  
30/8/2017

2. K. S. S. S. S.

*[Signature]*

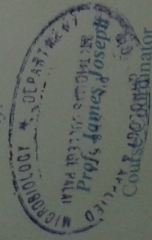


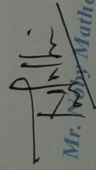
**St. Thomas College, Pala**

UGC APPROVED College with Potential for Excellence

## CERTIFICATE

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

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SCIENCE  
SCIENCE



# St. Thomas College, Pala

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## 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.

Prof. JAMES JOSEPH  
HEAD, DEPT. OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY

COURSE COORDINATOR

Arunapuram P. O.

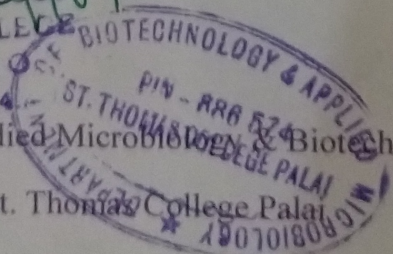
PALA - 686 574

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Pala

Mr. Noby Mathew

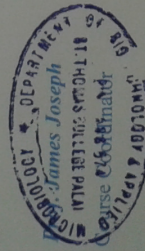
Faculty Member

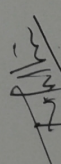


Examiner 1 *Dr. Sajeshkumar* Examiner 2 *Roshan K Ramesh*  
*30/8/2017*

**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.

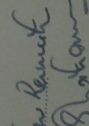


  
**Mr. Noby Mathew**

Supervising Guide

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Palai

  
Examiner.....

**BIOLOGICAL SCIENCE**



# St. Thomas College, Pala

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## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "*In-vitro study of the cosmetic activity of Nerium oleander on pimples*" Carried out by Miss. Beena Habel, Reg. No:150011014163 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 Microbiology under Mahatma Gandhi University.

Prof. James Joseph

Prof. JAMES JOSEPH

HEAD, DEPT. OF BIOTECHNOLOGY & APPLIED MICROBIOLOGY

ST. THOMAS COLLEGE

Arunapuram P. O.

PALA - 686 574.

St. Thomas College Pala

Mr. Noby Mathew

Faculty Member

Dept. of Applied Microbiology & Biotechnology

Examiner:

- 1.
- 2.

Dr. Sajeshkumar N. [Signature] 30/12/19

Ruchan K Ramiah [Signature]



# St. Thomas College, Pala

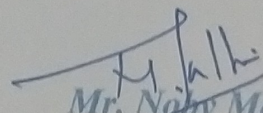
UGC APPROVED College with Potential for Excellence

## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "*Murraya koenigii*, A NATURAL AGENT FOR INCREASING THE SHELF LIFE OF PROCESSED FOOD" Carried out by Miss. **BIKU MOL BABY**, Reg. No:150011014164 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 Master's Degree in Applied Microbiology under Mahatma Gandhi University.

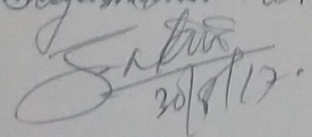
Prof. James Joseph

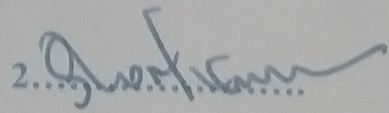
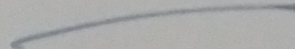
Course Coordinator

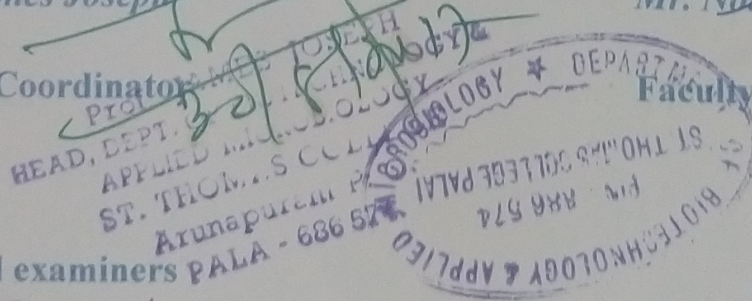
  
Mr. Noby Mathew

Faculty Member

External examiners

1. Dr. Jayashree Ar. N. K.  
  
20/9/17

2.   




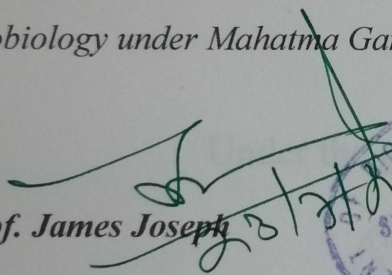


# St. Thomas College, Pala

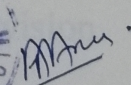
UGC APPROVED College with Potential for Excellence

## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "INVITRO STUDIES ON THE ANTI-CANCER AND APOPTOTIC EFFECTS OF STAPHYLOCOCCUS XYLOSUS PIGMENT ON HUMAN LUNG CANCER CELLS" carried out by **Miss. G Devipriya, Reg. No:160011011793** in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of **Dr. RAJESH RAMACHANDRAN** 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

  
**Mrs. Anupama K S**

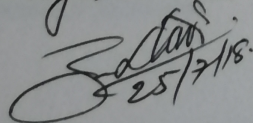
Internal Guide

Dept. of Applied Microbiology & Biotechnology

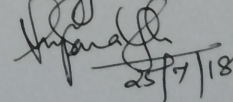
St. Thomas college, Palai

Examiners:

1. **Dr. Sajeesh kumar** 25/11/18

  
25/7/18

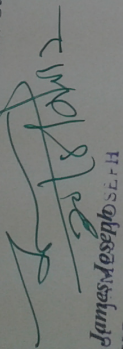
2. **Dr. Lincy Sara Varghese**

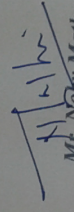
  
25/7/18



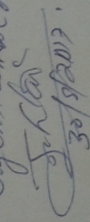
**CERTIFICATE**

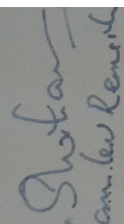
Certified that this is a bonafide report of the project work entitled "Naregamia alata, A MEDICINAL REMADY FOR MASTITIS" Carried out by Miss. HANNA THOMAS, Reg. No:15001101416 in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, under the guidance of Mr. NOBY MATHEW during 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 Meseth

  
Mr. Noby Mathew  
Faculty Member

HEAD, DEPT. OF BIOTECHNOLOGY  
Course Coordinator  
ST. THOMAS COLLEGE  
Arunapuram P. O. INTD. SETTING SPOONHILLS  
PALA - 688 579.  
St. Thomas College Pala

Examiner 1 .....  
Dr. Syed Akbar N.R.  
  
30/9/2017

Examiner 2   
Roshan. Lewis Renuk

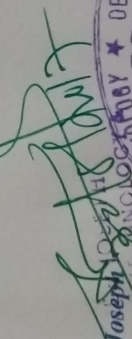


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## CERTIFICATE

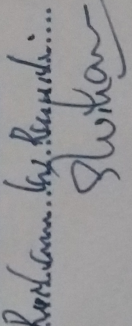
Certified that this is a bonafide report of the project work entitled "Therapeutic Potential of *Passiflora edulis* var. *flavicarpa* Leaves against *Streptococcus* Isolates from Decayed Tooth Sample " Carried out by **Mr. Jeevan Mathew**, Reg. No:150011014166 in the Department of Applied microbiology & Biotechnology St. Thomas College, 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 Applied Microbiology under Mahatma Gandhi University.

Prof. J. Joseph   
HEAD, DEPARTMENT OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY

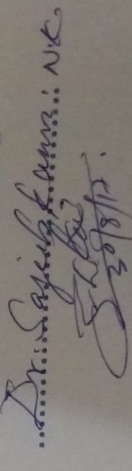
St. Thomas College Pala  
Course Co-ordinator  
ST. THOMAS COLLEGE  
Arunapuram P. O. 719 928 - 448  
Dept. of Applied Microbiology & Biotechnology  
100108790

St. Thomas College Pala

External Examiner 1



External Examiner 2





# St. Thomas College, Pala

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## CERTIFICATE

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,  
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 Applied Microbiology under Mahatma Gandhi University.

*Prof. Jeevan Mathew*  
Prof. Jeevan Mathew  
HEAD, DEPT. OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY  
ST. THOMAS COLLEGE, PALA  
719 922 - 443  
Trunapuram P. O.  
DEPT. OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY  
16010600300

External Examiner 1  
*Prof. Dr. S. S. S. S. S.*

External Examiner 2  
*Prof. Dr. S. S. S. S. S.*

St. Thomas College Pala

STUDY MATERIAL  
stream / Online Class Plan  
Monsoon Session (Target Dec. 2020)  
BATCH START

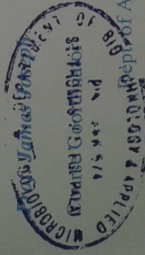


**St. Thomas College, Pala**

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## 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 DIEBITIC  
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 fulfilment of the requirement for the  
award of Masters Degree in Biotechnology under Mahatma Gandhi University.



*Mr. Noby Mathew*

Faculty Member

Department of Applied Microbiology & Biotechnology

St. Thomas College Pala

TOTAL SELECTION 243

**7** RANK



Jayashri Ladke

TOTAL SELECTION 282

Pushan Choudhary

**10** RANK



**St. Thomas College, Pala**

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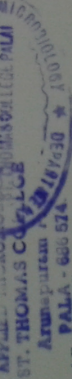
## CERTIFICATE

Certified that this is a bonafide report of the research work entitled "INFECTION CONTROL ACTIVITY OF LEAFEXTRACTS 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

Coordinator, Applied Microbiology & Biotechnology

Faculty Member



External Examiners.

1. Dr. Sajidkumar N/C.

*Sajidkumar*  
20/19/2017

2. Dr. Suresh Kumar

*Suresh Kumar*

RANK	NAME	RANK
10	Bhushan Choudhary	10
10	Jayashri Laddo	10
10	Pradiya Pachpatil	10
10	Debanjan	10

**- TOTAL SELECTION 282**

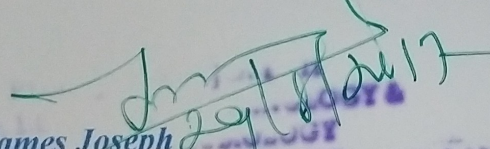


# St. Thomas College, Pala

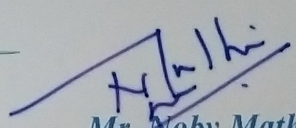
UGC APPROVED College with Potential for Excellence

## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "PHARMACOLOGICAL ACTIVITY OF *Piper betel* LINN AGAINST MULTI-DRUG RESISTANT DENTAL CARIES CAUSING BACTERIAL ISOLATES" Carried out by **Miss. PRINSHA K K, Reg. No:150011014169** 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

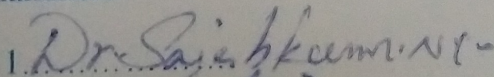
  
Mr. Noby Mathew

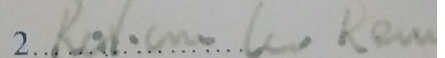
Faculty Member

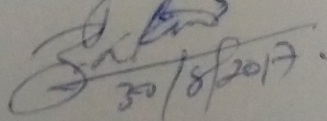
Dept. of Applied Microbiology & Biotechnology

St. Thomas college, Palai

Examiners:

1.   
Dr. Saikumar

2.   
Rev. Fr. Rev

  
30/8/2017

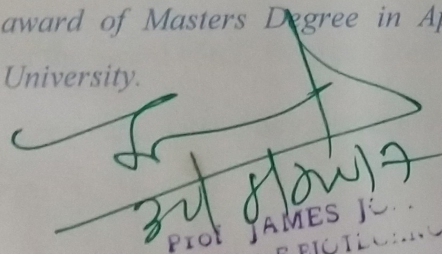


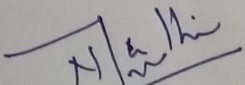
# St. Thomas College, Pala

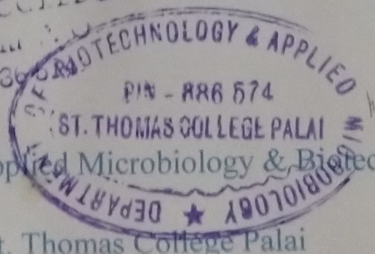
UGC APPROVED College with Potential for Excellence

## CERTIFICATE

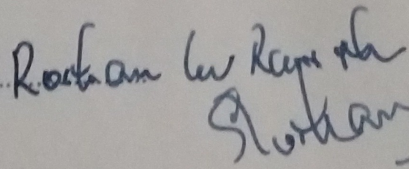
Certified that this is a bonafide report of the project work entitled "ANTIFUNGAL ACTIVITY OF *Cinnamomum tamala* AGAINST FOOD-BORNE SPOILAGE FUNGAL ISOLATES" Carried out by Miss. Rini Cathrine Tom, Reg. No:150011014170 in the Department of Applied microbiology & Biotechnology St. Thomas College, Pala, 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.

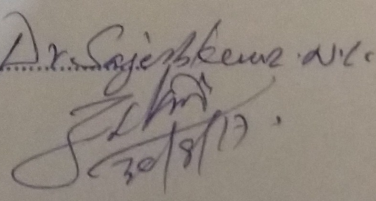
  
Prof. JAMES JOSEPH  
HEAD, DEPT. OF BIOTECHNOLOGY &  
APPLIED MICROBIOLOGY  
ST. THOMAS COLLEGE  
Arunapuram  
PALA - 686 574

  
Mr. Noby Mathew



Course Coordinator  
Faculty Member  
Dept. of Applied Microbiology & Biotechnology  
St. Thomas College Pala

Examiner 1... 

Examiner 2... 

# CERTIFICATE



## St. Thomas College, Pala

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Certified that this is a bonafide report of the project work entitled  
"PRELIMINARY PHYTOCHEMICAL ANALYSIS AND  
ANTIBACTERIAL SCREENING OF LEAF EXTRACT OF *Pouteria  
campechiana* AGANIST SKIN INFECTION CAUSING BACTERIAL  
PATHOGENS" Carried out by Miss. RITTY THOMAS, Reg.  
No:150011014171 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

Mr. Noby Mathew

Prof. JAMES JOSEPH  
HEAD, DEPT. OF BIOTECHNOLOGY & APPLIED  
MICROBIOLOGY

Faculty Member

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Palai

External Examiners.. 1. .. 2. ..





# St. Thomas College, Pala

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## CERTIFICATE

Certified that this is a bonafide report of the project work entitled **MEDICINAL PROPERTIES OF *Ixora Coccinea* LEAF EXTRACT AGAINST CLINICALLY ISOLATED EYE INFECTION CAUSING PATHOGENS** Carried out by **Miss.SHALIA JOSEPH, Reg. No:150011014172** 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 Microbiology under Mahatma Gandhi University.

*[Signature]*  
**Prof James Joseph**

**APPLIED MICROBIOLOGY & BIOTECHNOLOGY**  
**ST. THOMAS COLLEGE**  
**Course Coordinator P. O.**  
**PALA - 686 574.**

*[Signature]*  
**Mr. Noby Mathew**

Faculty Member

Dept. of Applied Microbiology & Biotechnology

St. Thomas College Pala

External examiner 1. *[Signature]*

*[Signature]*  
5/5/2012

2. *[Signature]*  
*[Signature]*



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**CERTIFICATE**

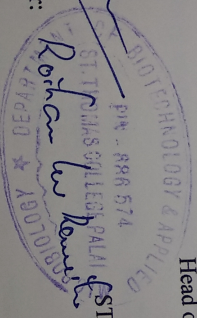
Certified that this is a bonafide report of the project work entitled "ISOLATION, SCREENING AND MOLECULAR IDENTIFICATION OF MARINE ACTINOMYCETES AGAINST FOOD BORNE PATHOGENS" carried out by Shehna Shukkoor, Reg.no 150011014173 in the Department of Microbiology and Fermentation Technology, under the guidance of DR. Mohan A. Dhale, Scientist, Central Food Technological Research Institute, Mysuru during the academic year 2015 – 2017 towards the partial fulfilment of the requirement for the award of Master's degree in Applied Microbiology under Mahatma Gandhi University

**Prof. James Joseph**

Head of the department of Applied Microbiology

HEAD, BIODIVERSITY AND BIOTECHNOLOGY  
 APPLIED MICROBIOLOGY  
 ST. THOMAS COLLEGE, PALA  
 Arunapuram P. O.  
 PALA - 686 574.

External examiner:



Place:

Date:



**St. Thomas College, Pala**

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## CERTIFICATE

Certified that this is a bonafide report of the project work entitled "**BIO CONTROL ACTIVITY OF THE ETHYL ACETATE EXTRACTS OF Asparagus racemosus willd AGAINST A SPECTRUM OF MASTITIS CAUSING BACTERIAL PATHOGENS**" Carried out by Miss. SNEHA ANTONY, Reg. No:150011014175 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 Master's Degree in Applied microbiology under Mahatma Gandhi University.

**Prof. James Joseph**

**COORDINATOR**  
HEAD, DEPT. OF BIO TECHNOLOGY  
DEPT. OF APPLIED MICROBIOLOGY & BIOTECHNOLOGY  
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Arurapuzham P. O  
PALA - 686 574.

Faculty Member

**Mr. Noby Mathew**

Examiner 1 **Dr. Sajishkumar** Examiner 2 **K.K.K...**

*Signature*  
23/10/17

*Signature*



**St. Thomas College, Pala**

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**CERTIFICATE**

*Certified that this is a bonafide report on the project work entitled*  
**“BIOCONTROL ACTIVITY OF LEAF EXTRACT OF Solanum  
torvum AGAINST MULTI DRUG RESISTANT SKIN  
INFECTION 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.*

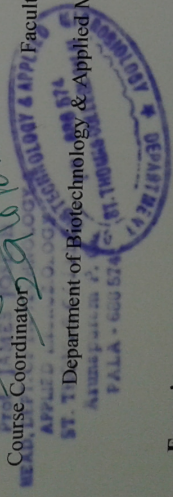
**Prof. James Joseph**

*[Signature]*  
Course Coordinator

**Mr. Noby Mathew**

Faculty Member

Department of Biotechnology & Applied Microbiology



**Examiners :**

1. *[Signature]*  
2. *[Signature]*