

ST. THOMAS COLLEGE, PALAI

REACCREDITED BY NAAC A GRADE CGPA 3.30

CERTIFICATE

Certified that this is a bonafide report of the project work entitled "Synthesis and characterization of chitosan nanoparticles as effective antimicrobial agent for food packaging" carried out by Ms. Amrutha.S.Joy (Reg. NO: 140011016377) in the Department of Biotechnology And Applied Microbiology, St. Thomas college, Palai under the internal guidance of Ms. Praveena George, during the academic year 2014-2016 towards the partial fulfillment of the requirement for the award of Masters Degree in Applied microbiology under Mahatma Gandhi University and that, this research work has not formed the basis for the award of any other Degree or Diploma earlier.

Prof. (Mr.) James Joseph

Course Coordinator

Department of Biotechnology and

Applied Microbiology

ST. Thomas college , Palains souliege PALAI

Ms. Praveena George

Asst. Professor

Department of Biotechnology and

Applied Microbiology

ST. Thomas college, Palai.

External Examiners



St. Thomas College, Palai

UGC Approved College with Potential for Excellence Reaccredited by NAAC with A Grade (CGPA 3.30)

August 2016

CERTIFICATE

This is to certify that the dissertation entitled "Proteome profiling of GC1-spg cells over-expressing CARD+SAND domains of AIRE" by Angel Benita Christy for the award of the degree of Master of Science in Biotechnology, Mahatma Gandhi University, Kottayam, is an authentic record of original research work carried out under my supervision at Department of Biotechnology and Applied Microbiology, St. Thomas College Palai. It is also certified that the work presented in this dissertation has not been submitted earlier for any other degree or diploma.

Prof. James Joseph

Course Coordinator

Department of Biotechnology &

Applied Microbiology

Ms. Praveena George

Assistant Professor

Department of Biotechnology &

Applied Microbiology

Examiners:

1. Dr. Sajeshkumar. org.



CERTIFICATE

fulfillment of the requirement for the award of Masters Degree in Biotechnology isolated from underarm region of human volunteers" Carried out by Miss. activity of Acacia caesia against foul smell producing microorganisms Certified that this is a bonafide report of the project work entitled "Deodorant Mr. NOBY MATHEW during the academic year 2013- 2015 towards the partial microbiology & Biotechnology St. Thomas College, Pala, under the guidance of BABITHA BABU, Reg. No:140011016379 in the Department of Applied under Mahatma Gandhi University.

Prof. James Joseph

PIN - 886 574

Course Coordinator OTTHOMAS SOLLES LPALM Faculty Member Dept. of Applied Microbiology & Biotechnology

St. Thomas College Pala

External examiners....



CERTIFICATE

Name: BAIJUMON C

Reg.No: 140011016380

This is to certify that the dissertation entitled, OPTIMIZATION OF BIOFLOCCULANT PRODUCTION BY BACTERIAL SPECIES AND ITS EFFECTIVENESS IN WASTEWATER TREATMENT, is an authentic work carried out by Mr. Baijumon c, as prescribed by Mahatma Gandhi University for the award of Master of Science in Biotechnology during the academic year 2015-2016.

Date : 6.09.2016

Teacher In- charge Anupowne K.S.K.

caminers: Dr. Sajashkan

ST. THOMAS SOLLEGE PALAL

Headofthg Departments: H

EAD, DEPT. OF HOLDSHOODS

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August 2016

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This is to certified that the dissertation entitled "An assessment of the physicochemical and microbiological standards of water quality in major rivers of Southern Keraladuring summer season" is an authentic record of the project done by Ms. Chithra PK at St. Thomas College Pala, under the guidance of Dr. Abhilash M, Assistant Professor, Department of Biotechnology and Applied Microbiology in partial fulfillment of the requirement for the award of Degree of Master of Science in Biotechnology at St. Thomas College, Palai, and this Dissertation has not formed the basis for the award of any other degree or diploma earlier.

Lecturer in charge CourseCo-ordinator

Archana Cheriyan

Prof. James Joseph Examiners:

DEPARTMENT OF BIOTECHNOLOGY AND APPLIED MICROBIOLOGY

ST.THOMAS COLLEGE, PALA

CERTIFICATE

Name : DIMPLE ANNIE JOHNS

Reg.No: 140011016382

This is to certify that the dissertation entitled, SYNTHESIS OF SILVER NANOPARTICLES FROM THE LEAF EXTRACT OF INDIAN BLACK BERRY (SYZYIUM CUMINI) is an authentic work carried out by Ms.Dimple Annie Johns, as prescribed by Mahatma Gandhi University for the award of Master of science in Biotechnology during the academic year 2015-2016.

Prof: James Joseph

Course co ordinator

Department of biotechnology

and applied microbiology

Teacher in charge

Internal guide

Mrs. Archana cherian

Dr Sajash Lumar. N. st.



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August 2016

Declaration

I do hereby declare that this project entitled "Potential of banana rind as natural resources of bioactive compounds and its biological potentialities- antioxidant and antimetastatic: a search " is an authentic record of original research work carried out by me under the supervision of Dr. K Murugan, Principal, Govt. College Ambalapuzha, in partial fulfilment of the requirements for the Degree of Master of Science in Biotechnology of the Mahatma Gandhi University and that no part of this work has been previously presented earlier for any degree or diploma in any of the Universities.

Lecture in Charge 7 9 2016

Archana Cheriyan

Course coordinator

Prof. James Joseph

Examiners:

Examiners:

Supervising teacher

Dr. K. Murugan

Archana Cheriyan

Prof. James Joseph

Examiners:



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CERTIFICATE

Certified that this is a bonafide report of the project work entitled CAUSING "MOLECULAR IDENTIFICATION OF UTI BACTERIA AND ITS ANTIMICROBIAL INHIBITION BY BOERHAVIA DIFFUSA" carried out by Ms. LIJO JOSE (Reg. NO: 140011016384) in the Department of Biotechnology And Applied Microbiology, St. Thomas college, Palai under the internal guidance of Ms. Praveena George, during the academic year 2014-2016 towards the partial fulfillment of the requirement for the award of Masters Degree in Applied microbiology under Mahatma Gandhi University and that, this research work has not formed the basis for the award of any other Degree or Diploma earlier.

Prof. (Mr.) James Joseph

Course Coordinator

Department of Biotechnology and APPLIE Department of Biotechnology and Applied Microbiology

ST. Thomas college, Palai,

Ms. Praveena George

Asst. Professor

Applied Microbiology ST. Thomas college, Palai.

External Examiners

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DETECTION OF P53 AND XPD GENE POLYMORPHISM STATUS IN THE INHABITANTS OF HIGH NATURAL BACKGROUND RADIATION AREA (HNBRA) OF KARUNAGAPALLY, KERALA is an authentic work carried out by Ms.Sneha Sandra P.S, under the supervision and guidance of Dr. S. Hariharan, Associate Professor, Laboratory of Cytogenetics and Molecular Diagnostics, Division of Cancer Research, Regional Cancer Centre, Thiruvananthapuram, in partial fulfillment for the award of Degree of Master of science in Biotechnology during the academic year 2015-2016.1 further assure that this work has no been previously formed the basis of any degree in University.

Lecturer in charge

ST. THOMAS COLLEGE PALA

Head of the Department

Mrs. Archana Cherian

Examiners

1. Dx: Sajeshkeemen nik

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