

YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in

dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE BY PROJECT GUIDE

This is to certify that Mr. Abhilash H A, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "Early detection of Cervical Cancer in Indian Context" under the supervision of Dr. Shankar P. Das., Assistant Professor Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 7th September 2020 to 30th December 2020.

Dr. Stankar P. Das
Assistant Professor
Yenepoya Research Centre
Yenepoya (Deemed to be University)

Assistant Professor

Yenepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project entitled "EARLY DETECTION OF CERVICAL CANCER IN INDIAN CONTEXT" is a bonafide work done by Mr. ABHILASH H A (193083601) towards the partial fulfillment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30 10 2021

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Dr. Monika Sadananda

Coordinator/ Chairperson

M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Fullipajaka State, (India)

CHAIRPERSON

Department of Biosclences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)

Examiners:

1.

2.



Department of Biosciences

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project entitled "ISOLATION AND CHARACTERISATION OF GUT MICROBIOME OF ASTAXANTHIN-TREATED ALBINO WISTAR RAT" is a bonafide work done by Mr. Adithya A (193083602) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, -574199. This work is original and has not been submitted in part or full to any other university VALUED for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dadenado

Coordinator Chairperson DEPARTMENT OF BIO-SCIENCES Mangalore University Mangalagangothri-574199 Karnataka State, (India)

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (Ind. a)

Examiners:

Dedacale 10/12/4 1.

2.



Department of Biosciences Mangalore University Mangalore, India

Phone: +91 824 2287 261 Mobile: +91 94488 69719

Email: monikasadananda@gmail.com

monika.sadananda@mangalore univeristy.ac.in

30 October 2021

CERTIFICATE

This is to certify that the MSc Project Dissertation being submitted to Mangalore University as partial fulfilment of the requirement for the award of the degree of MSc in Biotechnology and entitled "Isolation and characterisation of gut microbiome of Astaxanthin-treated albino Wistar rats" was carried out under my guidance by Mr. Adithya A., student of IV Sem. M.Sc. Biotechnology, Department of Biosciences, Mangalore University.

This work has not been published and is not under consideration for publication in its current form anywhere.

Prof. Dr. Monika Sadananda

Woodarood

Dr. Monika Sadananda Professor Department of Biosciences MANGALORE UNIVERSITY



Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka India

CERTIFICATE

This is to certify that the project entitled "GREEN SYNTHESIS OF SILVER NANOPARTICLES USING TECOMA STANS LEAF EXTRACT AND ITS POTENTIAL APPLICATION" is a bonafied work done by Mr. Akshay Kumar V (193083603), towards partial fulfilment of the Master of Science degree in Biotechnology programme, Mangalore University carried out during the academic year 2020-21 at Mangalore University Mangalagangothri. The work is original and has not been submitted in part or full to any other university for any other degree or diploma.

VALUED

Place: Mangalagangothri, Mangalore

Date: 30-10-2021

Dr. Dakshavini K

Project guide

Department of Biosciences

Dr. Monika Sadananda

Chairperson/coordinator

Department of Biosciences

CHAIRPERSON

Mangalore University

Karnataka State (India)

Co-ordinator M.Sc. Biotechnology Cours Department of Biosciences DEPARTMENT OF BIO-SCIENCE Mangalore University

Mangalagangothri 574 199 Mangalagangothri-574 199 Kamataka State, (India)

EXAMINERS:



DECLARATION

I, AKSHAY KUMAR V (Reg. No.193083603), hereby declare that the project work entitled "Green synthesis of silver nanoparticles using <u>Tecoma stans</u> leaf extract and its potential application" has been undertaken by me during the year 2020-21 under the guidance of Dr. Dakshayini K, Department of Biosciences Mangalore University, Mangalagangothri, Mangalore, Karnataka, India - 574199. It is been submitted to Mangalore University towards the partial fulfilment of the requirement for the award of Master's Degree in Biotechnology.

I also declare this project has not been submitted to any other university or institution for the award of any other degree.

Akshay Kumar V

193083603

Place: Mangalagangothri, Mangalore

Date: 30-10-2021



Department of Biosciences Mangalagangothri - 574 199 Karnataka, India.

CERTIFICATE

This is to certify that the project entitled "Analysis of downregulated genes induced by vitamin D on myogenic differentiation" is a bonafide work done by Ms. Anupama (Reg. No. 193083604) towards the partial fulfilment of M.Sc. Degree in year 2020-21 at Yenepoya Research Centre, Deralakatte, Mangalore, Karnataka, India. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 30/10/2021

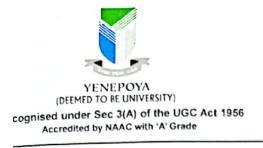
Dr. Monika Sadananda

Coordinator/Chairperson M.Sc. Biotechnology Course

Mangalore University Mangalagangothri-574199 Karnataka State, (India)

CHAIRPERSON DEPARTMENT OF BIO-SCIENCES Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India)

Examiners



YENEPOYA RESEARCH CENTRE

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Email: research@yenepoya.edu.in

dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that Ms. Anupama, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "Analysis of downregulated genes induced by vitamin D on myogenic differentiation" under the supervision of Dr. Raghu Bhushan, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 5th October 2020 to 30th November 2020.

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

> Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018

Pekto 7. D-1



Department of Biosciences Mangalagangothri - 574 199 Karnataka, India.

Certificate

This is to certify that the project entitled "Role of vitamin D induced upregulated genes on skeletal muscle differentiation" is a bonafide work done by Ms. Argya B Jain (Reg. No. 193083605) towards the partial fulfilment of M.Sc. Degree in year 2020-21 at Yenepoya Research Centre, Deralakatte, Mangalore, Karnataka, India. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 30/10/21

Coordinator

Examiners

Chairperson
CHAIRPERSON
Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

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Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that **Ms**. **Argya B Jain**, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "*Role of vitamin D induced upregulated genes on skeletal muscle differentiation*" under the supervision of Dr. Raghu Bhushan, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 5th October 2020 to 30th November 2020.

VALUED VALUED

Pettra P.D.

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

Venepoya Research Centra Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences

Mangalagangothri-574199

CERTIFICATE

This is to certify that the project entitled "Curation of ectoine biosynthesis pathway of Halomonas malpeensis YU-PRIM-29^T from whole genome data and characterization of the isolated ectoine" is a bonafide work done by Ms. Babyshwetha S M (193083606) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangotori, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri, Mangaluru

Date: 30/10/2021

Acdenad
Dr. Monika Sadananda

Coordinator/ Chairperson

M.Sc. Biotechnology Course
M.Sc. Biotechnology Course
DEPARTMENT OF BIQ SCIENCES
Mangalare University
Mangalagangothri-574199
Karnalaka Siale, (India)

CHAIRPERSON

Department of Biosciences

Mangalore University

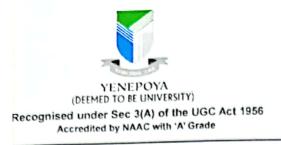
Mangalagangothri 574 159

Karnataka State (India)

Examiners:

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YENEPOYA RESEARCH CENTRE

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Ph: +91 8242204668/69/70, Ext. 2035

02.11.2021

CERTIFICATE BY THE PROJECT GUIDE

This is to certify that Ms. Babyshwetha Suresh Moger, M.Sc. Biotechnology, Mangalore University, Mangalore has undertaken the project titled "Curation of ectoine biosynthesis pathway of *Halomonas malpeensis* YU-PRIM-29^T from whole genome data and characterization of the isolated ectoine" under my supervision in Yenepoya research centre, Yenepoya (Deemed to be University), Deralakatte, Mangalore, Karnataka from 1st October 2020 to 30th November 2020.

Dr. Rekha P.D

Professor

Yenepoya research centre Yenepoya (Deemed to be University)

Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018

MANGALORE



UNIVERSITY

Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Mutational studies on isopenicillin N synthatase gene in Penicillium species isolated from different natural resources" is a bonafied work done by Mr.CHARAN RAJ (193083607) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Sangene Biotech Company Pvt Ltd Domlur, Bangalore, Karnataka 560071. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri, Mangalore

Date: 30-10-2021

Dr. Monika Sadananda

Coordinator/ Chairperson

Department of Biosciences

Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Karnataka State, (India)

CHAIRPERSON

Department of Blosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

Examiners:

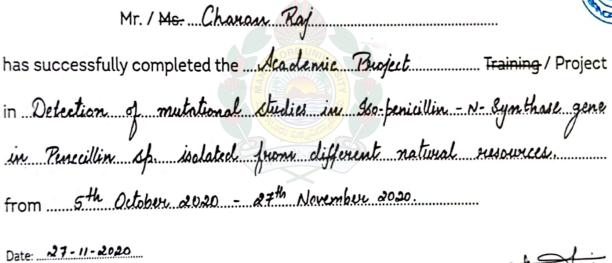
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This is to Certified that



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Managi QUALECTOR SANGENE BIOTECH 24/A, 2nd Cross, Krishna Reddy Colony Domlur Layout, Bengaluru - 560 071



MANGALORE

Department of Biosciences
Mangalore University
Mangalagangothri-574 199
Karnataka, India

CERTIFICATE

This is to certify that the project **PRODUCTION**, **PURIFICATION AND CHARACTERISATION OF ENZYME FROM SOIL MICROBE** is a bonafied work done by **Miss. CHAYASHREE R BANGERA** (193083608) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at **AZYME BIOSCIENCES Pvt Ltd**, **BANGALORE**. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Coordinator/Chairperson

Dadewal

M.Sc. Biotechnology Course Department of Biosciences
DEPARTMENT OF BIO-SCIENCES Mangalore University
Mangalagangothri-574199
Kaifxaminers, (India)

CHAIRPERSON

Mangalagangothri-574199

Karnataka State (India)

1. I dans 10/12/21



Ref. No. AB/CF/1033/21

Date: 22" Oct 2021



CERTIFICATE

This is to certify that Ms. Chayashree R
Bangera a student of M.Sc., Biotechnology
from Mangalore University, Mangalore has
successfully completed her Dissertation work
entitled "Production, Purification and
Characterisation of L-Asparaginase from soil
Microbe" from 28th Sep 2020 to 6th Nov 2020 at
Azyme Biosciences Pvt Ltd, Bengaluru.

Mahesh. M CEO



MANGALORE



UNIVERSITY

Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Ancestry specific variation in neuropsychological disorders among the South Asian population: Ancient genomic perspective" is a bonafide work done by Ms. Gaana Rukmini S M (193083609) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and hasnot been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Coordinator/ Chairperson

Examiners:

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YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in

dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that Ms. Gaana Rukmini S M, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "Ancestry specific variation in neuropsychological disorders among the South Asian population: Ancient Genomic perspective" under the supervision of Dr. Ranajit Das., Assistant Professor Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 10th September 2020-30th November 2020.

Yenepoya (Deemed to be University)

Yenepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project entitled "RAPID DETECTION OF ESBL's PRODUCING BACTERIA FROM FOOD SAMPLES" is a bonafide work done by Mr. Gautham (193083610) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Yenepoya Research Centre, Deralakatte, Mangaluru. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30/10/2021

Dr. Monika Sadananda

Daderado

Coordinator/ Chairperson

Co-ordinator

M.Sc. Biotechnology Course DEPARTMENT OF BIQ-SCIENCES

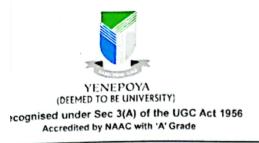
Mangalore University Mangalagangothri-574199 Kamataka State, (India) CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India) Examiners:

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YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that Mr. Gautham, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "Rapid detection of ESBL's producing bacteria from Food sample" under the supervision of Dr. Rajesh P Shastry, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 29th September 2020 to 30th November 2020.

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

> Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "STUDY OF UREA UTILIZATION PATTERN IN KIDNEY STONE FORMING BACTERIA Kalamiella piersonni (YU-22)" is a bonafied work done by Mr. HITHESH K (193083611) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangotri, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma. VALUED

Place: Mangalagangothri, Mangaluru

Date:

Dr. Monika Sadananda

Coordinator/ Chairperson

Department of Biosciences

Co-ordinator CHAIRPERSON .Sc. Biotechnology Course EPARTMENT OF BIO-SCIENCES Department of Biosciences Mangalore University Mangalore University Mangalagangothri-574199 Mangalagangothri 574 199 Karnataka State (India) Kamataka State, (India)

Examiners:

2.



Recognised under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

Certificate

This is to certify that Mr. Hithesh K, M. sc., Biotechnology from Mangalore University, Mangalore has undertaken the project titled "Study of urea utilization pattern in kidney stone forming bacteria kalamiella piersonii (YU-22) "under the supervision of Dr. Rekha PD, Professor and Director, Yenepoya research centre Yenepoya (Deemed to be University), Mangalore, Karnataka from 7th September to 30th December 2020.

VALUE!

Rether P. O. 26/10/2021

Yenepoya Research Centre Yenepoya (Jeemed to be University) Peralakatte, Mangaluru-575013



MANGALORE UNIVERSITY

Department of Biosciences Mangalagangothri-574199 Karnataka, India.

Certificate

This is to certify that the project work entitled "A STUDY ON ANTIBACTERIAL AND LARVICIDAL POTENTIAL OF WILD AND MALLIKA MANGO PEEL" is a bonafide work of Ms. KAVYA(193083612) towards the partial fulfillment of M.Sc Degree in Biotechnology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of, Dr.Avila D'Spuza, proprietor, Euchem Biologicals, Udupi.

This work is original and has not been submitted in part or full to any other University for any degree or diploma.

Place:

Date: 9 12/24

Examiners:

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Scale well.
Chairperson:

Chairperson:

Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)



EUCHEM BIOLOGICALS

RESEARCH, ANALYTICAL LABORATORY AND TRAINING CENTRE

1st Floor, Shriram Tower, NH-66, Santhekatte, Udupi - 576 105

Contact Phone: 09448240099, 08660668958 Email: euchembiologicals@gmail.com or dsilvavila@gmail.com

CERTIFICATE

This is to certify that Ms. Kavya, Reg No. 193083612 of Post-graduation Department of Biotechnology, Mangalagangothri, Mangalore University, Mangalore, Karnataka, has undertaken a project entitled "A STUDY ON ANTIBACTERIAL & LARVICIDAL POTENTIAL OF WILD AND MALLIKA MANGO PEEL EXPRACTS" in her fourth semester of M.Sc in Biotechnology at Euchem Biologicals, Udupi, under the guidance of Dr. Avila D'Souza towards partial fulfilment of the degree in Masters of science. No part of this thesis has been used for the award of any other degree.

Date: 27/10/2021

Place: Udupi.

Guide: Dr. Avila D'Souza

Nature to Nurture: Seeking Answers to Questions

MANGALORE



UNIVERSITY

Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "COMPARATIVE STUDY OF GUT MICROBIOME IN WISTAR AND WISTAR KYOTO RATS" is a bonafide work done by Mr. Manohar Prasad (193083613) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Daderale

Coordinator Chairperson

M.Sc. Biotechnology Course

DEPARTMENT OF BIO-SCIENCES

Mangalore University

Mangaloge Specific 574 199

Mangalagangothr. 574199 Kamataka State, (India)

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India)

Examiners:

1.

2.



Department of Biosciences Mangalore University Mangalore, India

Phone: +91 824 2287 261 Mobile: +91 94488 69719

Email: monikasadananda@gmail.com

monika.sadananda@mangalore univeristy.ac.in

30 October 2021

CERTIFICATE

This is to certify that the MSc Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of MSc in Biotechnology and entitled "Comparative study of gut microbiome in Wistar and Wistar kyoto rats" was carried out under my guidance by Mr. Manohar Prasad, student of IV Sem M.Sc. Biotechnology, Department of Biosciences, Mangalore University.

This work has not been published and is not under consideration for publication in its current form anywhere.

Hodarorde

Prof. Dr. Monika Sadananda

Dr. Monika Sadananda Professor Department of Biosciences MANGALORE UNIVERSITY



Department of Biosciences

Mangalagangotri-574199

Karnataka, India.

Certificate

This is to certify that the dissertation entitled "STUDIES ON EXPRESSION OF DAMAGE SENSOR IN DIFFERENT CANCER CELL LINES" a bonafide work done by Ms. Nidhi Shetty (Reg No.193083614) towards the partial fulfillment of MSc .Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-2021 at Yenapoya research centre, Yenepoya university, Mangalore. This work is Orginal and has not been submitted in part or full to any other university for any other degree or diploma.

VALUED

Place:Mangalagangothri

Date: 30/10/21

Coordinator

M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University

Dadenad

Mangalagangothri-574199 Karnataka State, (India)

Plane 10/12/21

Examinars:

Chairperson CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)



YENEPOYA RESEARCH CENTRE

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Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that **Ms**. **Nidhi Shetty,** Department of Bioscience ,Mangalore University has undertaken the internship on project entitled as "Studies on expression of damage sensor in different cancer cell lines" under the supervision of Dr. Suparna Laha, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 3rd September 2020 to 19th November 2020.

VALUED

SUPARNA LAHA

YRC

Assistant Professor
Yenepoya Research Centre
Yenepoya (Deemed to be University)
Deratakatte, Mangaluru-575018

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018

MANGALORE



UNIVERSITY

Department of Biosciences
Mangalore University
Mangalagangothri- 574 199
Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Population specific variation in neuropsychological disorders among Indian population" is a bonafide work done by Ms. Nishmitha K(193083615) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Yenepoya Research Centre, Yenepoya (Deemed to be University), Deralakatte, Mangalore. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Coordinator/ Chairperson

Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University

Mangalagangothri-574199 Kamataka State, (India) CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)

Examiners:

1.

2.



Recognised under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

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Email: research@yenepoya.edu.in
dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that Ms. Nishmitha K, Department of Bioscience ,Mangalore University has undertaken the internship on project entitled as "Population specific variation in neuropsychological disorders among Indian population." under the supervision of Dr. Ranajit Das, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 10th September 2020 to 30th November 2020.

VALUED

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

Relhaf. D-26/10/2021

Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "MONOAMINERGIC SIGNALLING AND DOCKING STUDIES ON SEROTONIN RECEPTOR USING MADECASSIC ACID OF Centella asiatica" is a bonafide work done by Ms. Nrutya Koppalaramane (193083616) towards the partial fulfillment of M.Sc. Degree in Biotechnology Program, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, University, Mangalagangothri, - 574199. This work is original and has not been submitted in part or full to any other university, for any other degree diploma.

Place: Mangalagangothri

Date: 30/10/2021

Dr. Monika Sadananda Project Guide/ Chairperson Department of Biosciences

Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Kamataka State, (India)

CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri 574 199 Kamataka State (India)

Examiners:

1. Dada de 10/12/21
2.



Department of Biosciences Mangalore University Mangalore, India

Phone: +91 824 2287 261 Mobile: +91 94488 69719

Email: monikasadananda@gmail.com

monika.sadananda@mangalore univeristy.ac.in

30 October 2021

CERTIFICATE

This is to certify that the MSc Project Dissertation being submitted to Mangalore University as partial fulfilment of the requirement for the award of the degree of MSc in Biotechnology and entitled "Monoaminergic signalling and docking studies on Serotonin receptor using Madecassic acid of Centella asiatica" was carried out under my guidance by Ms. Nrutya Koppalaramane, student of IV Sem. M.Sc. Biotechnology, Department of Biosciences, Mangalore University.

This work has not been published and is not under consideration for publication in its current form anywhere.

.

Prof. Dr. Monika Sadananda

Dr. Monika Sadananda Professor

Department of Biosciences
MANGALORE UNIVERSITY



Department of Biosciences Mangalagangotri – 574199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Standardisation of Fermentation Parameters of Malted Paddy" is a bonafide work by Poovamma C D (193083617) towards the partial fulfillment of M.Sc. Degree in Biotechnology Programme, Mangalore University, carried out during the academic year 2020-2021 at Mangalore University, Mangalagangothri. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 30/10/2021

Dede Lad Coordinatorion

M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University

Mangalagangothri-574199 Mangalagangothri-574199 Karnaigko Stale, (India)

Examiners:

1. Veleval 10/12/4

2.

Chairperson CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri 574 193

Karnataka State (India)



ಸಿಎಸ್ಐಆರ್- ಕೇಂದ್ರೀಯ ಆಹಾರ ತಾಂತ್ರಿಕ ಸಂಶೋಧನಾಲಯ, ಮೈಸೂರು - ೫೭೦ ೦೨೦ ಭಾರತ

सीएसआईआर - केंद्रीय स्वाद्य प्रौद्योगिक अनुसंघान संस्थान, मैसूरू -१९७० ०२० भारत



CSIR-Central Food Technological Research Institute, Mysuru - 570 020 India

Dr. Anu Appaiah K.A. M.Sc. Ph.D. Principal Scientist

Dept., of Microbiology & Fermentation Technology Ph.: 0821- 2517539 email; anuappaiah@cftri.res.in

CERTIFICATE

This is to certify that the work entitled "Standardization of fermentation parameters of malted paddy" was the work carried out by Miss. Poovamma C. D. under my guidance during period of June 2020-January 2021 at Microbiology and Fermentation Technology Department of Central Food Technological Research Institute (CSIR-CFTRI), Mysore. This work is a part of her Dissertation leading to the partial fulfillment of the requirements for the award of degree of "MASTER OF SCIENCE" in BIOTECHNOLOGY, Department of Biosciences, and Mangalore University.

(Guide)

Dr. K.A. Anu Appalah, M.Sc. Ph.D Principal Scientist

Dept. of Microbiology or Fernventation Technology

Email anuappaiah@cftri.res.in

Scanned with CamScanner



Department of Biosciences

Mangalore university

Mangalagangothri - 574 199

Karnataka, India.

CERTIFICATE

This is to certify that the project entitled "EFFECT OF FERMENTATION ON PHYSICAL AND BIOCHEMICAL PROPERTIES OF PHYTOCHEMICALS IN Physalis minima" is a bonafide work done by Ms. Prakruthi H.D (193083618) towards the partial fulfillment of the Master's degree in Biotechnology programme, Mangalore University carried out during the academic year 2019-21 at Mangalore university, Mangalagangothri, Mangalore. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date : 28/10/21 DNaem.

Decle carel chairperson

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India)

Examiners:

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2. 4 12/04



MANGALORE UNIVERSITY

Department of Biosciences Mangalagangothri-574199

CERTIFICATE

This is to certify that PRASAD K (193083619) of IV semester M.Sc. Biotechnology student has undertaken the project entitled " EFFECT OF FERMENTATION ON CHEMICAL, PHYSICAL AND BIOLOGICAL PROPERTY OF PHYTOCHEMICALS ON Biophytum sensitivium towards the partial fulfillment of the requirement of Master's degree in Biotechnology Programme, Mangalore University carried out during academic year 2020-2021 at Mangalore University, Mangalagangothri, Konaje. This work is original and has not been submitted in part or full to any other university for any other degree.

Place: Mangalagangothri

Date: 30/10/2021

Project Guide

VALUED

Chairperson

CHAIRPERSON

Department of Biosciences Mangalore University

Mangalagangothd 574 188

Karnataka State (India)

Examiner:

2.



Department of
BiosciencesMangalore
University
Mangalagangothri574199

Karnataka, India

CERTIFICATE

This is to certify that the project entitled "A styley on antioxidant potential and phytochemical analysis of wild and Mallika mango peel extracts." is a bonafide work done by Ms. Precha A. S. (193083620) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and hasnot been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date:30-10-2021

Dr. Monika Sadananda

Acade ward

Coordinator/ Chairperson

M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Karnataka State, (India)

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India) **Examiners:**

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EUCHEM BIOLOGICALS

RESEARCH, ANALYTICAL LABORATORY AND TRAINING CENTRE

1st Floor, Shriram Tower, NH-66, Santhekatte, Udupi - 576 105

Contact Phone: 09448240099, 08660668958
Email: euchembiologicals@gmail.com or dsilvavila@gmail.com

CERTIFICATE

This is to certify that **Ms. Preeta A S, Reg No. 193083620** of Post-graduation Department of Biotechnology, Mangalagangothri, Mangalore University, Mangalore, Karnataka, has undertaken a project entitled "A STUDY ON ANTIOXIDANT POTENTIAL & PHYTOCHEMICAL ANALYSIS OF WILD AND MALLIKA MANGO PEED EXTRACTS" in her fourth semester of M.Sc in Biotechnology at Euchem Biologicals, Udupi, under the guidance of Dr. Avila D'Souza towards partial fulfilment of the degree in Masters of science. No part of this thesis has been used for the award of any other degree.

Date: 27/10/2021

Place: Udupi.

Guide: Dr. Avila D'Souza

Nature to Nurture: Seeking Answers to Questions

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalore University

Mangalagangothri-574 199

Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Determination of protease gene in Bacillus sps. isolated from soil samples in the production of protease enzyme screening" is a bonafide work done by Saba Fariyan (193083621) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Coordinator/ Chairperson
Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF 810-SCIENCES
Mangalore University

Mangalore University Mangalagangothri-574199 Kamataka State, (India) CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India) **Examiners:**

1. Dalanach 12/21

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Certificate

This is to Certified that

MF. / Ms. Saba Janiyam

in Determination of Protesse gene in Bocillus sp. isolated

soil samples in the production of Protesse enzyme screening.

Date: ペチーバーよの20

GUIDE WALLY

Dr. Prasad. M. P. Ph.D

Dr. Prasad. M. P. Ph.D

Managing DIRECTOR

Managing DIRECTOR

Managing DIRECTOR

SANGENE BIOTECH

SANGENE BIOTECH

24/A, 2nd Cross; Krishna Reddy Colony,

24/A, 2nd Cross; Krishna Reddy Colony,

Domlur Layout, Bengaluru - 560 071

Scanned with CamScanner



Department Of Biosciences Mangalagangothri - 574199 Karnataka, India

CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of silver nanoparticles from Synedrella nodiflora leaf extract" is a bonafide work done by Ms. Shachi Adiga (Reg. No. 193083622) towards partial fulfilment of the Master of Science degree in Biotechnology Programme, Mangalore University carried out in the academic year 2020-2021 at Mangalore University, Mangalagangothri. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri, Mangalore

Date: 30-10-2021

Dr. Dakshayini K

Project guide

Department of Biosciences

Dr. Monika Sadananda

Chairmanan/acandinatan

Chairperson/coordinator

Department of Biosciences

CHAIRPERSON M.Sc. Biotechnology Course

Department of Biosciences DEPARTMENT OF BIO-SCIENCES

Mangalore University Mangalore University
Mangalagangothri 574 199 Mangalagangothri-574 199

Mangalagangothri 574 199 Mangalagangothri-574 199 Karnataka State (India) Karnataka State, (India)

EXAMINERS:

1) Dedacal 10/11/11

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Department Of Biosciences Mangalagangothri - 574199 Karnataka, India

CERTIFICATE

This is to certify that the dissertation entitled "Molecular Modelling of interaction between FTO Protein and Myricetin" is a bonafide work done by Mr. Shuaib Pasha (Reg. No. 193083623) towards partial fulfilment of the Master of Science degree in Biotechnology Programme, Mangalore University carried out in the academic year 2020-2021 at Mangalore University. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 30-10-2021

Co-ordinator

M.Sc. Biotechnology Course DEPARTMENT OF BIO-SCIENCES Mangalore University

Mangalagangothri-574199

Kamatanu . . . (India)

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199

Karnataka State (India)

Examiners:



This is to certify that the project work entitled "Molecular Modelling of interaction between FTO Protein and Myricetin" was duly performed by *Mr. Shuaib Pasha* of II year Master of Science degree in Biotechnology programme, Mangalore University, Mangalagangothri, Mangalore, Karnataka-574199 under my supervision has completed research project at the University for the period of two months from 25-December-2020 to 27-January-2021. No part of this thesis has been presented for the award of any degree.

Date:

Place: Mangalagangothri, Mangalore

(Dr. Pallavi B)
Faculty of Biosciences
Mangalore University
Mangalagangothri,
Mangalore, Karnataka-574199



Department of Biosciences Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Phytochemical Analysis, Total Phenolic Content And Antibacterial Activity Of Seed Extract Of Persea americana" is a bonafied work done by Ms. Sonia Sushmitha Cordeiro (Reg. No. 193083624) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalogotri, Mangalore-574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri, Mangalore

Date: 30/10/2021

VALUED

Wade and

Coordinator
Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University

Mangalagangothri-574199

K-Examiners:

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Chairperson

CHAIRPERSON

Department of Biosciances
Mangalore University
Mangalagangothri 574 199

Karnataka State (India)



This is to certify that the project work entitled "Phytochemical Analysis, Total Phenolic Content And Antibacterial Activity Of Seed Extract Of Persea americana" was duly performed by Ms. Sonia Sushmitha Cordeiro of II year Master of Science degree in Biotechnology programme, Mangalore University, Mangalagangothri, Mangalore, Karnataka-574199 under my supervision has completed research project at the University for the period of one month from 09-September-2021 to 10-October-2021. No part of this thesis has been presented for the award of any degree.

Date: 30 / 10 / 2021

Place: Mangalagangothri, Mangalore

(Dr. Pallavi B)

Faculty of Biosciences

Mangalore University

Mangalagangothri,

Mangalore, Karnataka-574199

Department of Biosciences Mangalagangothri-574199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Biogenesis Of Silver Nanoparticles From Passiflora edulis And Study Of Its Antidiabetic And Anticancer Activities"is a benefited work done by Ms. Soumya S Halladamal (193083625) towards the partial fulfillment of M.Sc. Degree in Biotechnology Program Mangalore University carriedout during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangotri -574199. This work is original and has not been submitted in part or full to any other University for any other degree diploma.

Place: Mangalagangothri, Mangalore

Date: 30/10/2021

Coordinator

Paderad

M.Sc. Biotechnology Course DEPARTMENT OF BIO-SCIENCES

Mangalore University . rangoths: (

nutana State, Litar

Examiners:

CHAIRPERSON

Department of Biosciences Mangalore University

Mangalagangothri 574 199

Karnataka State (India)



Tel: +91-0836-2270305 Mob: +91-8431670004

+91-9035623200

E-mail: info@cytxon.com Website: www.cytxon.com

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms. Soumya Halladamal has successfully completed a project entitled "Biogenesis of Silver Nanoparticles from Passiflora edulis; and Study of its Antidiabetic and Anticancer activity " at Cytxon Biosolutions Pvt Ltd., Hubballi during October 2020 to December 2020.

Authorised Signatory

#3500/1B1, 21" Cross, Lingaraj Nagar North, Hubballi - 580031, Karnataka, India

MANGALORE



UNIVERSITY

Department of Biosciences Mangalore University Mangalagangothri-574 199 Karnataka, India

CERTIFICATE

This is to certify that the project entitled "Determination of genetic diversity amongst yeast isolated from different sources using RAPD molecular markers" is a bonafied work done by Mr.Yakshith A (193083633) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Sangene Biotech Company private Ltd Domlur, Bangalore, Karnataka 560071. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

VALUED

Place: Mangalagangothri, Mangalore

Date: 30/10/2021 Daderado

Dr. Monika Sadananda

Coordinator/ Chairperson

Department of Biosciences

M.Sc. Biotechnology Course DEPARTMENT OF BIO-SCIENCES Mangalore University Mangalagangothri-574199 Examiners:

CHAIRPERSON

Department of Biosciences Mangatore University Mangalagangothri 574 199 Karnataka State (India)

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalore University

Mangalagangothri, 574 199

Karnataka India

VALUED

CERTIFICATE

This is to certify that the project entitled "Synthesis, characterization of chitosan-silver coated fucoidan polyelectrolyte complexes and its antimicrobial activity against Candida albicans" is a bonafied work done by Mr.Vijendra Prasad Reg. No. 193083632, towards partial fulfilment of the Master of Science degree in Biotechnology programme, Mangalore University, carried out during the academic year 2020-21 at Mangalore University Mangalagangothri. The work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 30,-10 -2021

Dr.Monika Sadananda

Coordinator/Chairperson

Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University

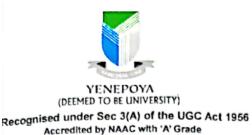
Mangalagangothri-574199 Kamataka State, (Inuia) CHAIRPERSON

Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

EXAMINERS

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YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

26.10.2021

Certificate

This is to certify that Mr. Vijendra Prasad, M.Sc., Biotechnology from Mangalore University, Mangalore has undertaken the project titled "Synthesis, characterization of chitosan- silver coated fucoidan polyelectrolyte complexes and its antimicrobial activity against Candida albicans" under the supervision of Dr. Rekha PD, Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore, Karnataka from 7th September to 30th December 2020.

Reklo f.D. 10 2021

Yenepoya Research Centre Yenepoya (Deemed to be University)

Director

Yenepoya Res irch Centre Venepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences

Mangalagangothri-574 199

Karnataka, India

CERTIFICATE

This is certified that the project entitled "STUDY ON EXPRESSION OF REPAIR GENE IN DIFFERENT BREAST CANCER CELL LINES" is a bonafide work done by Ms. Veekshitha (193083631) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore university carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri- 574199. This work is original and has not been submitted in part or full to any other university for any other degree or diploma

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Coordinator/ Chairperson
Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Karnataka State, (India)

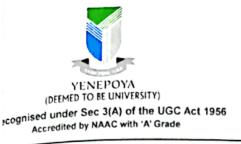
CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India) **Examiners:**

1.

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YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that **Ms. Veekshitha**, Department of Bioscience ,Mangalore University has undertaken the internship on project entitled as "*Study on expression of repair gene in different breast cancer cell lines*" under the supervision of Dr. Suparna Laha Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 13th October 2020 to 15th November 2020.

SUPARNA LAHA.

YRG Sistant Professor Yenepoya Research Centre Yenepoya (Deemed to be University) Deratakatte, Mangaluru 575018 Rella 70 Der 1
Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018



Department of Biosciences

Mangalagangothri-574199

CERTIFICATE

This is to certify that the project entitled "Curation of polyhydroxyalkanoate biosynthesis pathway of Halomonas malpeensis YU-PRIM-29T from whole genome data and its characterization" is a bonafide work done by Ms. Vasudha Honnappa (193083630) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri, Mangaluru

Date: 30 10 2001

Coordinator/ Chairperson

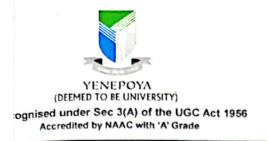
Co-ordinator M.Sc. Biotechnology Course DEPARTMENT OF BIO-SCIENCES Mangalore University Mangalagangothri-574199 Kamataka State, (India)

CHAIRPERSON

Department of Biosciences Mangatore University Mangalagangothri 574 199 Karnataka State flodir

Examiners:

1. 2.



YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University)
University Road, Deralakatte
Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in

Ph: +91 8242204668/69/70, Ext. 2035

02.11.2021

CERTIFICATE BY THE PROJECT GUIDE

This is to certify that Ms. Vasudha Honnappa, M.Sc. Biotechnology, Mangalore University, Mangalore has undertaken the project titled "Curation of polyhydroxyalkanoate biosynthesis pathway of *Halomonas malpeensis* YU-PRIM-29^T from whole genome data and its characterization" under my supervision in Yenepoya research centre, Yenepoya (Deemed to be University), Deralakatte, Mangalore, Karnataka from 1st October 2020 to 30th November 2020.

Dr. Rekha P.D

Professor

Yenepoya research centre Yenepoya (Deemed to be University)

Venepoya Research Centre Yenepoya (Deemed to be University) Deralakatte, Mangaluru-575018





Department Of Biosciences Mangalagangothri - 574199 Karnataka, India

CERTIFICATE

VALUED

This is to certify that the dissertation entitled "Biodegradable Film Containing Turmeric As Potential Anti-microbial Agent For Wound Healing" is a bonafide work done by Ms. Syeda Nayaab (Reg. No. 193083629) towards partial fulfilment of the Master of Science degree in Biotechnology Programme, Mangalore University carried out in the academic year 2020-2021 at Sumtech Ventures Private Limited, Mysuru. This work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri

Date: 27-10-2021

Coordinator Course Coordinator Course Coordinator Biotechnology Course Coordinator Course State of Bio-Sciences DEPARTMENT OF BIO-SCIENCES

Mangalore University Examiners: Mangalagangothri-574199 Karnataka State, (India)

1.

10/12/2 10/12/2

Chairperson

CHAIRPERSON

Department of Biosciences

Mangalore University Mangalagangothri 574 199

Karnataka State (India)



Dr. Dattatri K. Nagesha Founder-Director

Dated: 23-10-2021

CERTIFICATE

Turmeric As Potential Anti-microbial Agent For Wound Healing" was duly performed by *Ms. Syeda Nayaab* of II year Master of Science degree in Biotechnology programme, Mangalore University, Mangalagangothri, Mangalore under my supervision has completed research project at Sulntech Ventures Private Limited, Mysuru, Karnataka-570023 for the period of two months from 10-June-2020 to 30-July-2020. No part of this thesis has been presented for the award of any degree.

K.N. Naltaten Join

(Dr. Dattatri. K Nagesha)

Guide



Department of Biosciences

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project entitled "Anti- Quorum sensing activity of synthetic compounds against Chromobacterium violaceum" is a bonafide work done by Ms. Sushmitha K Y (193083628) towards the partial fulfilment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2020-21 at Department of Biosciences, Mangalore University, Mangalagangothri, - 574199. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

Date: 30/10/2021

Dr. Monika Sadananda

Coordinator/ Chairperson

Co-ordinator
.Sc. Biotechnology Course
EPARTMENT OF BIO-SCIENCES
Mangalore University

Mangelagangothri-574199

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka State (India) **Examiners:**

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9/10/21



ecognised under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

YENEPOYA RESEARCH CENTRE

Yenepoya (Deemed to be University) University Road, Deralakatte Mangalore - 575018.

Email: research@yenepoya.edu.in dydirectoryrc@yenepoya.edu.in Ph: +91 8242204668/69/70, Ext. 2035

Date: 26.10.2021

CERTIFICATE

This is to certify that Ms. Sushmitha K Y, Department of Bioscience, Mangalore University has undertaken the internship on project entitled as "Anti-quorum sensing activity of synthetic compounds against Chromobacterium violaceum." under the supervision of Dr. Rajesh P Shastry, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 29th September 2020 to 30th November 2020.

Director

Yenepoya Research Centre Yenepoya (Deemed to be University)

Pirector
Yenepeya Research Centre
Yenepeya (Deemed to be University)
Peralakatte, Mangaluru-575018

Relations



Department of Biosciences Mangalore University Mangalagangothri 574 199 Karnataka India

CERTIFICATE

This is to certify that the project entitled "ADSORPTION OF METHYLENE BLUE BY SILVER NANOPARTICLES SYNTHESIZED FROM URENA LOBATA LEAF EXTRACT" is a bonafied work done by Mr. Sujith A M, Reg. No. 193083627, towards partial fulfilment of the Master of Science degree in Biotechnology programme, Mangalore University carried out during the academic year 2020-21 at Mangalore University Mangalagangothri. The work is original and has not been submitted in part or full to any other university for any other degree or diploma.

Place: Mangalagangothri, Mangalore

Date: 30-10-2021

Dr. Dakshayini K

Project guide

Department of Biosciences

Ocada and

Dr. Monika Sadananda

Chairperson/coordinator

Department of Biosciences

CHAIRPERSON Co-ordinator
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Mangalere University
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Karnataka State (India)
Karnataka State, (India)

EXAMINERS:



Mangalore University

Department of Biosciences Mangalagangothri – 574 199 Karnataka,India

CERTIFICATE

This is to certify that the project entitled "Effect of fermentation on chemical, physical and biological property of phytochemicals in Boerhaavia diffusa" is a bonafied work done by Mr.Sudev P ((Reg. No:193083626) toward the partial fulfilment of M.Sc degree in Biotechnology programme, Mangalore university carried out during the academic year 2019-21 at Memgalore university Mangalagangothri campus, Mangalore. This work is original and has not been submitted in any part or full to any other university for any other degree or

Place: Mangalagangothri

Date: 30/10/21

diploma.

Project Guide

CHAIRPERSON

Department of Biosciences Mangalore University Mangalagangethri 574 19\$ Karnataka State (India)

Examiners

10/12/21 10/12/21