



YENEPOYA
(DEEMED TO BE UNIVERSITY)

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 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. Shankar 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



Dr. Monika Sadananda

Coordinator/ Chairperson

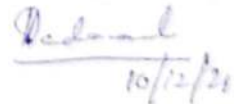
Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
Karnataka State, (India)

CHAIRPERSON

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

Examiners:

1.


10/12/21

2.


11/12/21

MANGALORE UNIVERSITY



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 for any other degree diploma.

Place: Mangalagangothri

Date: 30-10-2021

Dr. Monika Sadananda

Dr. Monika Sadananda

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:

1. *Dr. Monica* 10/12/21
2. *[Signature]* 9/12/21

Prof. Dr. Monika Sadananda
Coordinator-Biotechnology



Department of Biosciences
Mangalore University
Mangalore, India
Phone: +91 824 2287 261
Mobile: +91 94488 69719
Email: monikasadananda@gmail.com
monika.sadananda@mangalore univervisty.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.

VALUED

Prof. Dr. Monika Sadananda

Dr. Monika Sadananda
Professor
Department of Biosciences
MANGALORE UNIVERSITY

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

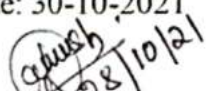
Karnataka India

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.

Place: Mangalagangothri, Mangalore

Date: 30-10-2021


Dr. Dakshayini K

Project guide

Department of Biosciences


Dr. Monika Sadananda

Chairperson/coordinator

Department of Biosciences

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

Co-ordinator
M.Sc. Biotechnology Cours
DEPARTMENT OF BIO-SCIENCE
Mangalore University
Mangalagangothri-574 199
Karnataka State, (India)

EXAMINERS:

1)..... 10/12/21

2)..... 10/12/21



DECLARATION

I, **AKSHAY KUMAR V** (Reg. No.193083603), hereby declare that the project work entitled **“Green synthesis of silver nanoparticles using Tecoma stans 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

MANGALORE UNIVERSITY



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

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 Dr. Sadananda 10/12/21
2 [Signature] 10/12/21



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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. 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.

Rakha P.D.
26/10/2021

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangaluru-575018



**Department of Biosciences
Mangalagangothri - 574 199
Karnataka, India.**

Certificate

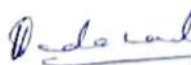
This is to certify that the project entitled **“Role of vitamin D induced upregulated genes on skeletal muscle differentiation”** is a bonafide work done by Ms. Argya B Jain (Reg. No. 193083605) towards the partial fulfilment of M.Sc. Degree in year 2020-21 at Yenepoya Research Centre, Deralakatte, Mangalore, 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.

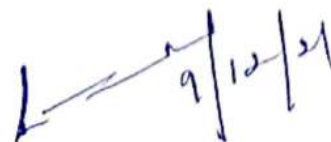
Place: Mangalagangothri

Date: 30/10/21


Coordinator

Examiners

1  10/12/21

2  9/12/21


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



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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. 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

Rekha P.D.
26/10/2021

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

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

MANGALORE UNIVERSITY



Department of Biosciences

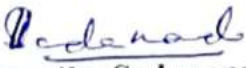
Mangalagangothri-574199

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, 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: 30/10/2021

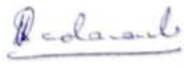

Dr. Monika Sadananda

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.  10/12/21
2.  9/12/21



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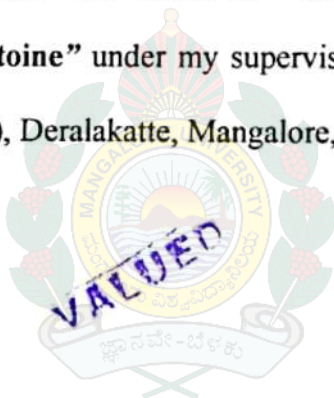
dydirectoryrc@yenepoya.edu.in

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

02.11.2021

CERTIFICATE BY THE PROJECT GUIDE

This is to certify that **Ms. 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.



Rekha P.D.
2/11/2021

Dr. Rekha P.D

Professor

Yenepoya research centre

Yenepoya (Deemed to be University)

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangalore-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 synthetase 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

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 Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

Examiners:

1. *Dr. Sadananda*
10/12/21

2.

Dr. Sadananda
9/12/21

Certificate



This is to Certified that

Mr. / Ms. Chanan Raj

has successfully completed the Academic Project Training / Project
in Detection of mutational studies in 660-penicillin - N- Synthase gene
in Penicillin sp. isolated from different natural resources
from 5th October 2020 - 27th November 2020

Date: 27-11-2020


GUIDE

VALUED



Dr. Prasad. M. P. Ph.D
Managing **DIRECTOR**
SANGENE BIOTECH
24/A, 2nd Cross, Krishna Reddy Colony,
Domlur Layout, Bengaluru - 560 071

MANGALORE



UNIVERSITY

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

[Signature]

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)

1. *[Signature]*
10/12/21

2. *[Signature]*
9/12/21

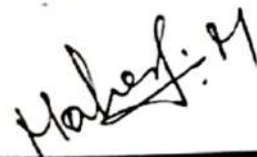
Ref. No. AB/CF/1033/21

Date: 22nd 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:

1.
10/12/21

2.
9/12/21



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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.

Ranjit D.
26/10/21
Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

Director
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 “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

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.

10/12/21

2.

12/21



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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 **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.



Rajesh P.D.
26/10/2021
Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

Director
Yenepoya 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 "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, 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:

VALUED

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 Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)

Examiners:

1.
2.

9/12/21



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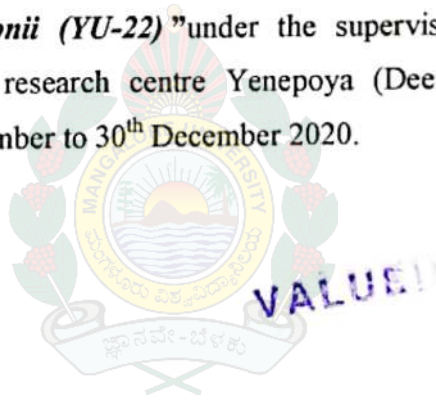
dydirectoryrc@yenepoya.edu.in

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 kalamella 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.



Rekha P. D.
26/10/2021

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



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: 9/12/21

Examiners:

1. D. Avila D' Spuza
2. 10/12/21
9/12/21

D. Avila D' Spuza

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: euchembiochemicals@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 EXTRACTS" in her fourth semester of M.Sc in Biotechnology at Eucchem 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 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

Dr. Monika Sadananda

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:

1.
10/12/21
2.
9/12/21

Prof. Dr. Monika Sadananda
Coordinator-Biotechnology



Department of Biosciences
Mangalore University
Mangalore, India
Phone: +91 824 2287 261
Mobile: +91 94488 69719
Email: monikasadananda@gmail.com
monika.sadananda@mangaloreuniversity.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.

Prof. Dr. Monika Sadananda

Dr. Monika Sadananda
Professor
Department of Biosciences
MANGALORE UNIVERSITY

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalagangothri-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 Original and has not been submitted in part or full to any other university for any other degree or diploma.

Place:Mangalagangothri

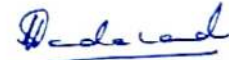
Date: 30/10/21



Coordinator

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

Examinars:



Chairperson

CHAIRPERSON

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







YENEPOYA
(DEEMED TO BE UNIVERSITY)

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 **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.



30.10.21

SUPARNA LAHA

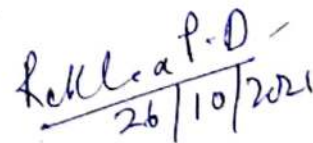
YRC

Assistant Professor

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangaluru-575018



26/10/2021

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Director

Yenepoya 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-574 199
Karnataka State, (India)**

CHAIRPERSON

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

Examiners:

1.
10/12/21
2.
9/12/21



YENEPOYA
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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. 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.



Rukha P.D -
26/10/2021

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

Director
Yenepoya 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, 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
Project Guide/ Chairperson
Department of Biosciences

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.  10/12/21
2.  19/12/21

Prof. Dr. Monika Sadananda
Coordinator-Biotechnology



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

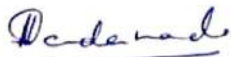
MANGALORE UNIVERSITY
Department of Biosciences
Mangalagangothri – 574199
Karnataka, India

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



Coordinator

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



Chairperson

CHAIRPERSON

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

1.  10/12/21

2.  9/12/21



ಕರ್ನಾಟಕ - ಕೇಂದ್ರೀಯ ಆಹಾರ ತಾಂತ್ರಿಕ ಸಂಶೋಧನಾಲಯ, ಮೈಸೂರು - 570 020 ಭಾರತ
 सीएसआईआर - केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान, मैसूरु - ५७० ०२० भारत

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

cftri

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.



Dr. Anu Appaiah

(Guide)

Dr. K.A. Anu Appaiah, M.Sc. Ph.D.
 Principal Scientist
 Dept. of Microbiology and Fermentation Technology
 CSIR-Central Food Technological Research Institute
 Mysuru-570 020, Karnataka, INDIA
 Email : anuappaiah@cftri.res.in



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

D Naen
Guide :-

VALUED

P. S. S. S.
chairperson

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

Examiners :

1. P. S. S. S.
10/11/21

2. A. S. S. S.
9/12/21



MANGALORE UNIVERSITY

Department of Biosciences

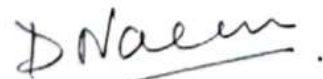
Mangalagangothri-574199

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.

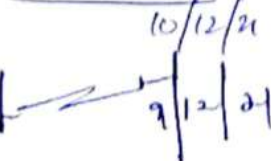
Place : Mangalagangothri

Date : 30/10/2021

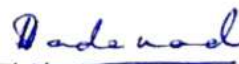


Project Guide

Examiner:

1. 
2.  10/12/21
7/12/21

VALUED



Chairperson

CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri - 574199

Karnataka State (India)

MANGALORE



UNIVERSITY

**Department of
Biosciences Mangalore
University
Mangalagangothri-
574199**

Karnataka, India

CERTIFICATE

This is to certify that the project entitled "A study on antioxidant potential and phytochemical analysis of wild and Mallika mango peel extracts." is a bonafide work done by Ms. Preetha 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

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.
10/12/21
2.
10/12/21



EUCHEM BIOLOGICALS

RESEARCH, ANALYTICAL LABORATORY AND TRAINING CENTRE

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

Contact Phone: 09448240099, 08660668958

Email: eucembiologicals@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 PEEL EXTRACTS" in her fourth semester of M.Sc in Biotechnology at Eucem 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

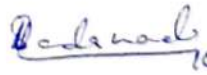

Dr. Monika Sadananda

Coordinator/ Chairperson
Co-ordinator

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

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

Examiners:

1.  10/12/21
2.  9/12/21

Certificate

This is to Certified that

Mr. / Ms. *Saba Farisam*

has successfully completed the *Academic Project* ~~Training~~ / Project

in *Determination of Protease gene in Bacillus sp. isolated from soil samples in the production of Protease enzyme screening* from *5th October 2020* - *29th November 2020*

Date: *27-11-2020*

Washita
GUIDE



[Signature]

Dr. Prasad. M. P. Ph.D
Managing **DIRECTOR**
SANGENE BIOTECH
24/A, 2nd Cross, Krishna Reddy Colony,
Domlur Layout, Bengaluru - 560 071

MANGALORE UNIVERSITY



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

Dr. Monika Sadananda

Chairperson/coordinator

Department of Biosciences

CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri - 574 199

Karnataka State (India)

Co-ordinator

M.Sc. Biotechnology Course

DEPARTMENT OF BIO-SCIENCES

Mangalore University

Mangalagangothri-574199

Karnataka State, (India)

EXAMINERS:

1).....*Dr. Dakshayini K* 10/12/21

2).....*Dr. Monika Sadananda* 9/12/21

MANGALORE



UNIVERSITY

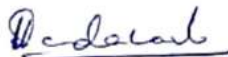
Department Of Biosciences
Mangalagangothri - 574199
Karnataka, India

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



Coordinator

Co-ordinator

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

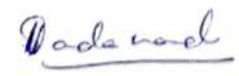


Chairperson

CHAIRPERSON

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

Examiners:

1.  10/12/21

2.  9/12/21



CERTIFICATE

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

MANGALORE UNIVERSITY



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, Mangalagangothri, 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

Coordinator
Co-ordinator
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199

Examiners:

1. 10/12/21

2. 9/12/2021

Chairperson

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



CERTIFICATE

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

MANGALORE UNIVERSITY



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 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, Mangalore

Date: 30/10/2021



Coordinator

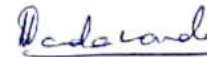
M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES

Mangalore University

Mangalagangothri - 574199

Karnataka State, India

Examiners:

1.  10/12/21

2.  9/12/21



Chairperson

CHAIRPERSON

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)

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**.



[Signature]

VALUE CYTXON BIOSOLUTIONS PVT. LTD.
Authorized Signatory

Authorised Signatory

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.

Place: Mangalagangothri, Mangalore

Date: 30/10/2021

Dr. Monika Sadananda

Dr. Monika Sadananda

Coordinator/ Chairperson

Department of Biosciences

**M.Sc. Biotechnology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574 199
Karnataka State, (India)**

Examiners:

1. *Dr. Monika Sadananda* 10/12/21

2. *Dr. Monika Sadananda* 9/12/2021

CHAIRPERSON

**Department of Biosciences
Mangalore 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
Karnataka State, (India)

CHAIRPERSON

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

EXAMINERS

1. 10/12/21
2. 9/12/21



YENEPOYA
(DEEMED TO BE UNIVERSITY)

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

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.

Rekha P.D.
26/10/2021

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

Director

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

MANGALORE



UNIVERSITY

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

Examiners:

1.
10/12/21

2.
9/10/21

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)



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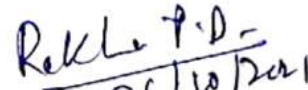
Date: 26.10.2021

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.


30.10.21
SUPARNA LAHA.

YRC Assistant Professor
Yenepoya Research Centre
Yenepoya (Deemed to be University)
Deralakatte, Mangalore - 575018


26/10/2021
Director

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

MANGALORE UNIVERSITY



Department of Biosciences

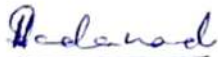
Mangalagangothri-574199

CERTIFICATE

This is to certify that the project entitled "**Curation of polyhydroxyalkanoate biosynthesis pathway of *Halomonas malpeensis* YU-PRIM-29^T 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: 30/10/2021



Dr. Monika Sadananda

Coordinator/ Chairperson

Co-ordinator

M.Sc. Biotechnology Course

DEPARTMENT OF BIO-SCIENCES

Mangalore University

Mangalagangothri-574199

Karnataka State, (India)

CHAIRPERSON

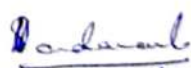
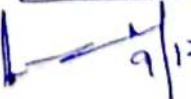
Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)

Examiners:

1.  10/12/21
2.  9/12/21



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Email : research@yenepoya.edu.in

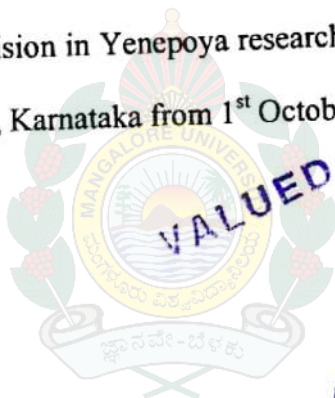
dydirectoryrc@yenepoya.edu.in

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.



Rekha P.D.
2/11/2021

Dr. Rekha P.D
Professor

Yenepoya research centre
Yenepoya (Deemed to be University)

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

MANGALORE



UNIVERSITY

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

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

D. S. N. Nayaab
Chairperson
CHAIRPERSON
Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

1. *D. S. N. Nayaab*
2. *10/12/21*
9/12/21



Dr. Dattatri K. Nagesha
Founder-Director

Dated: 23-10-2021

CERTIFICATE

This is to certify that the project work entitled “**Biodegradable Film Containing 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 Sumtech 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. Dattatri Nagesha

(Dr. Dattatri. K Nagesha)

Guide

MANGALORE



UNIVERSITY

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
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. 10/12/21
2. 9/12/21



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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 Shastri, Assistant Professor, Yenepoya research centre, Yenepoya (Deemed to be University), Mangalore, Karnataka, from 29th September 2020 to 30th November 2020.

Rajesh P. D.
26/10/2021

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangaluru-575018

MANGALORE



UNIVERSITY

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

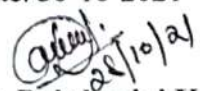
Karnataka India

CERTIFICATE

This is to certify that the project entitled "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


Dr. Monika Sadananda

Chairperson/coordinator

Department of Biosciences

CHAIRPERSON, Co-ordinator
M.Sc. Biotechnology Course
Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)

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

EXAMINERS:

1)..... 10/12/21

2)..... 9/12/21



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 Mangalore 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 diploma.

Place :Mangalagangothri

Date: 30/10/21

D Naem
Project Guide

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

Examiners

1 Sudev P
10/12/21

2 H
9/12/21