



NITTE

(Deemed to be University)

NGSM INSTITUTE OF PHARMACEUTICAL SCIENCES

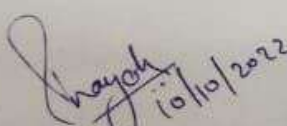
(Established under Section 3 of UGC Act, 1956)

Placed under Category 'A' by MHRD, GoI, Accredited with 'A+' Grade by NAAC

CERTIFICATE FROM THE PROJECT GUIDE

This is to certify that **AMBIKA SANGAPPANAVAR** (201611385103), M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri- 574 199, has undertaken the project entitled "**Isolation and Characterization of Amylase Producing Bacteria from Soil Samples**". She has finished her project at **NGSM Institute of Pharmaceutical Sciences, Nitte (DU)**, Deralakatte, Mangalore under my supervision from June 2022 to September 2022.

The same is being submitted to Mangalore University in partial fulfillment of the requirements for the award of Master's Degree in Biotechnology.


MR. PRASHANT NAYAK
PROJECT GUIDE
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACEUTICS




DR. C S SHASTRI
PRINCIPAL
NGSM Institute of Pharmaceutical Sciences
Paneer, Deralakatte, Mangaluru - 575018
Karnataka India



VALUED



MANIPAL SCHOOL OF LIFE SCIENCES

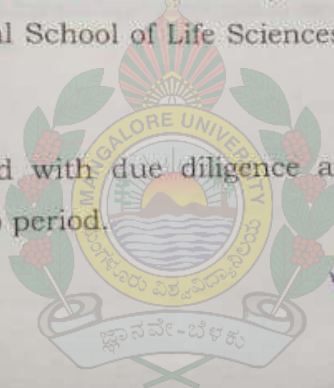
MANIPAL
(A constituent unit of MAHE, Manipal)

CERTIFICATE

This is to certify that **Ms. Sinchana R** (Reg. No: 201611385130), M.Sc. Biotechnology student, Department of Biosciences, Mangalore University, Mangalagangothri, Mangalore has successfully carried out her internship on the project entitled **"Examining the spectrum of bacterial virulence associated with the diabetic foot ulcers"** under the guidance of **Dr. K. Satyamoorthy, Professor, Manipal School of Life Sciences, Manipal Academy of Higher Education (MAHE), Manipal** as part of her academic curriculum at Manipal School of Life Sciences, MAHE, Manipal in the month of June 2022.

Ms. Sinchana worked with due diligence and exhibited good work ethics during this internship period.

Dr. K. Satyamoorthy
Professor
Manipal School of Life Sciences
Manipal Academy of Higher Education
Manipal

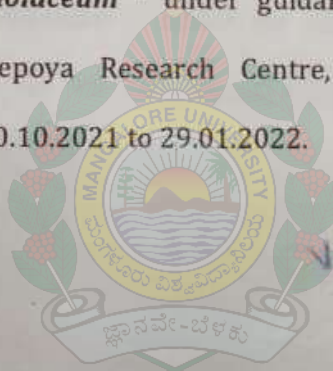


VALUED

10.10.2022

CERTIFICATE

This is to certify that **Mr. Kiran K (Reg. NO: 201611385118)**, M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, 574199 Mangalore, has successfully completed his internship on the project titled "**Quorum Quenching Efficacy Of AHL-Lactonase Loaded Bacterial Cellulose Against Chromobacterium violaceum**" under guidance of Dr. Rajesh P. Shastry, Assistant Professor at Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from 20.10.2021 to 29.01.2022.



VALUED

Rakha P.D.
10/10/2022

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangaluru-575018



Phone (Off.) : 04994 - 232333
Fax : 04994 - 232322
(EPABX) : 04994 - 232893-95
04994 - 232090
04994 - 232996

Email : director.cpcr@icar.gov.in
director.cpcr@gmail.com
Website : http://www.cpcr.gov.in

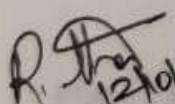


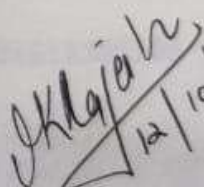
CERTIFICATE

This is to certify that the M.Sc. project dissertation being submitted to Mangalore University towards partial fulfillment of the requirement of the award of the degree of M. Sc Biotechnology, entitled "**Assessment of genetic diversity in tall coconut cultivars from the Philippines using microsatellite markers**", was carried out under our guidance by **Ms. Anusree M R**, Student of **IVth Semester M.Sc Biotechnology**, Department of Biosciences, Mangalore University.

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

VALUED


12/10/2022
(R. Sudha)
Co-Guide


12/10/2022
(M. K. Rajesh)
Guide





YENEPOYA

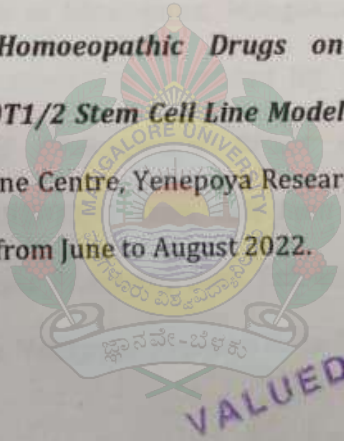
(DEEMED TO BE UNIVERSITY)

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

11.10.2022

CERTIFICATE BY THE GUIDE

This is to certify that **Mr. Joel Rimson Pinto (Reg. No: 201611385117)** M. Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, 574199 Mangalore, has successfully completed his internship on the project titled ***"Assessing the Role of Homoeopathic Drugs on Inhibition of Adipogenic Differentiation using C3H10T1/2 Stem Cell Line Model"*** under my guidance at Stem Cell and Regenerative Medicine Centre, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from June to August 2022.



Sudheer Shenoy
11/10/22
Dr. Sudheer Shenoy P
Associate Professor
Stem Cell and Regenerative Medicine Centre
Yenepoya Research Centre
Yenepoya (Deemed to be University)

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



Phone (Off.) : 04994 - 232333
Fax : 04994 - 232322
(EPABX) : 04994 - 232893-95
04994 - 232090
04994 - 232996

Email : director.cpcr@icar.gov.in
director.cpcr@gmail.com
Website : http://www.cpcr.gov.in



11 October 2022

CERTIFICATE

This is to certify that this M.Sc. Project Dissertation is being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and the work entitled **"INFLUENCE OF SINGLE WALLED CARBON NANOTUBES ON ENCAPSULATION-VITRIFICATION METHOD OF PLUMULE CRYOPRESERVATION USING V-CRYOMESH IN COCONUT"** was carried out under my guidance by **Ms. Raksha B.**, student of IV Semester 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

M.K. Rajesh
12/10/2022

(M.K. Rajesh)
Principal Scientist
ICAR-CPCRI, Kasaragod



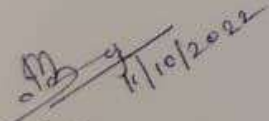
11.10.2022

CERTIFICATE

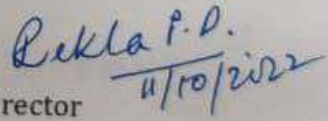
This is to certify that **Ms. Anusha V K (Reg. NO: 201611385105)**, M.Sc Biotechnology Student, Department of Biosciences, Mangalore University, Mangalagangothri, Mangalore has successfully completed her internship on the project titled **"Effect of widely used Folk medicine *Plectranthus Amboinicus* on B-lymphoma Progression"** under the guidance of Dr. Divya Lakshmanan M, Assistant Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from June to August 2022.



VALUED


Dr. Divya Lakshmanan M
Assistant Professor
Yenepoya Research Centre
Yenepoya (Deemed to be University)

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


Director
Yenepoya Research Centre
Yenepoya (Deemed to be University)

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

POYA
UNIVERSITY
KATHMANDU, NEPAL
E-mail: z.gurung@poya.edu.np

University Road, Deralakatte, Mangaluru - 575 018.
Ph. : +91 8242204668 Extn : 2035 | Email : research@yenepoya.edu.in

20 JAN 2020-19 JAN 2023

CERTIFICATE



The logo of Mangalore University is circular, featuring a sun rising over a body of water with palm trees in the background. The text "MANGALORE UNIVERSITY" is written around the top inner edge of the circle. Below the circle, there is a banner with Kannada text. The entire logo is flanked by green leaves and red flowers.

Rekha P.D.
Director 10/10/2022

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

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



भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड, केरल - 671 124 भारत
ICAR - Central Plantation Crops Research Institute
Kasaragod - 671 124, Kerala, India
(An ISO 9001:2008 Certified Institution)



Phone (Off) : 04994 - 232333
Fax : 04994 - 232322
EPABX : 04994 - 232893 - 95
04994 - 232090
04994 - 232096

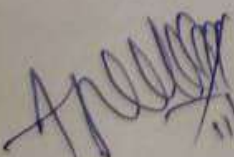


E-mail : director.cperi@icar.gov.in
director.cperi@gmail.com
chowdappa.p@icar.gov.in
Website : <http://www.cperi.gov.in>

CERTIFICATE

This is to certify that the M.Sc. project dissertation being submitted to Mangalore University towards partial fulfillment of the requirement of the award of the degree of MSc Biotechnology entitled **“Standardization of Cryopreservation technique for long term conservation of coconut plumule based on Encapsulation Vitrification Procedure Using V-Cryoplate”** was carried out under my guidance by **Ms.Nimisha Sukumaran**, Student of **IV sem MSc.Biotechnology**, Department Of Biosciences, Mangalore University.

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


11/10/22
(Dr.Aparna Veluru)



भा.कृ.अनु.प.-काजू अनुसंधान निदेशालय (का.अनु.नि)
ICAR-DIRECTORATE OF CASHEW RESEARCH (DCR)

पुत्तुर - 574 202, डी.के., कर्नाटक, भारत

PUTTUR - 574 202, D.K., KARNATAKA, INDIA



Dr. Siddanna Savadi
Scientist

No. NRCC (Biotech)/2022-01
Dated: 11-10-2022

CERTIFICATE

This is to certify that the project work entitled "SSR Marker Based Identification of Interspecific Hybrids of Cashew" was performed by Ms. Apoorva D. of II year M. Sc. (Biotechnology) student of Mangalore University, Mangalagangothri, under my supervision at ICAR-Directorate of Cashew Research (DCR), Puttur, Dakshina Kannada, Karnataka-574 202, for a period of one month from 21 October to 22 November during the year 2021-2022. I have no objection for them to add these results in their thesis, submitted in partial fulfillment of the requirements for award of the Master of Sciences in Biotechnology from Mangalore University, Mangalagangothri.

VALUED

(SIDDANNA SAVADI)



भा.कृ.अनु.प.-काजू अनुसंधान निदेशालय (का.अनु.नि)
ICAR-DIRECTORATE OF CASHEW RESEARCH (DCR)
पुत्तुर - 574 202, डी.के., कर्नाटक, भारत
PUTTUR - 574 202, D.K., KARNATAKA, INDIA



Dr. Siddanna Savadi
Scientist

No.NRCC(Biotech)/ 2022-02
Dated: 11/10/2022

CERTIFICATE

This is to certify that the project work entitled "CHARACTERIZATION OF INTER-VARIETAL HYBRIDS OF CASHEW USING MICROSATELLITE MARKERS" was duly performed by Ms. Shreeranjani U. of II year M.Sc. Biotechnology, student of Mangalore University, Mangalagangothri under my supervision at ICAR-Directorate of Cashew Research (DCR), Puttur, Dakshina Kannada, Karnataka-574 202, for a period of one month from 21 October to 22 November during the year 2021. I have no objection for them to add these results in their thesis, submitted in partial fulfillment of the requirements for award of the Master of Sciences in Biotechnology from Mangalore University, Mangalagangothri.

VALUED

(SIDDANNA SAVADI)

Yenepoya Research Centre

Yenepoya (Deemed to be University),

University Road, Deralakatte, Mangaluru - 575 018

Ph. : +91 8242204668 Extn : 2035 | Email : research@yenepoya.edu.in

Certificate of Compliance

ISO 17025:2017

Certificate No.: 21209

20 JAN 2020-17 JAN 2023

Certificate of Compliance

GLP (Good Laboratory Practices)

Certificate No.: 21210

20 JAN 2020-19 JAN 2023

10.10.2022

CERTIFICATE

This is to certify that **Mr. Adesh (Reg. NO: 201611385101)**, M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, Mangalore, 574199 has successfully completed his internship on the project titled "*Interaction Of Lactobacillus plantarum Strain E2C5 With Oral Cancer Cells*" under the guidance of **Dr.Rekha P.D** Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from 14.11.2022 to 15.02.2022.

VALUED

Rekha P.D.
10/10/2022

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Director

Yenepoya Research Centre

Yenepoya (Deemed to be University)

Deralakatte, Mangaluru-575018



NITTE

(Deemed to be University)

NGSM INSTITUTE OF PHARMACEUTICAL SCIENCES

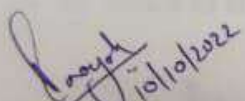
(Established under Section 3 of UGC Act, 1956)

Placed under Category 'A' by MHRD, GoI, Accredited with 'A+' Grade by NAAC

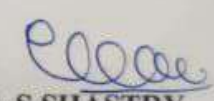
CERTIFICATE FROM THE PROJECT GUIDE

This is to certify that ANVITHA (201611385107), M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri- 574 199, has undertaken the project entitled "In Vitro Evaluation of Phytochemical, Antioxidant and Antivenom Activity of Leaf Extract of *Calotropis gigantea*". She has finished her project at NGSM Institute of Pharmaceutical Sciences, Nitte (DU), Deralakatte, Mangalore under my supervision from June 2022 to September 2022.

The same is being submitted to Mangalore University in partial fulfillment of the requirements for the award of Master's Degree in Biotechnology.


MR. PRASHANT NAYAK
PROJECT GUIDE
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACEUTICS




DR. C. S. SHASTRI
PRINCIPAL
PRINCIPAL

NGSM Institute of Pharmaceutical Sciences
Paner, Deralakatte, Mangalore - 575014
Karnataka India

VALUED



भा.कृ.अनु.प.-काजू अनुसंधान निदेशालय (का.अनु.नि)
ICAR-DIRECTORATE OF CASHEW RESEARCH (DCR)

पुत्तुर - 574 202, डी.के., कर्नाटक, भारत

PUTTUR - 574 202, D.K., KARNATAKA, INDIA



Dr. Siddanna Savadi
Scientist

No. NRCC (Biotech)/ 2022 - 03
Dated: 11 - 10 - 2022

CERTIFICATE

This is to certify that the project work entitled "SSR marker based identification of true inter-specific hybrids in Anacardium species" was duly performed by Ms. Vidyashree H.T. of II year M.Sc. in Biotechnology students of Mangalore University, Mangalagangothri, under my supervision at ICAR-Directorate of Cashew Research (DCR), Puttur, Dakshina Kannada, Karnataka-574 202, for a period of one month during the year 2021-2022. I have no objection for them to add these results in their thesis, submitted in partial fulfillment of the requirements for award of the Master of Sciences in Biotechnology from Mangalore University, Mangalagangothri.

VALUED

(SIDDANNA SAVADI)



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

15.09.2022

CERTIFICATE

This is to certify that **Ms. Sushma P**, MSc. Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, has successfully completed her 3 months internship on the project titled "Study on the expression of c-MPL gene in different Acute Myeloid Leukemia cell lines" under the guidance of Dr. Suparna Laha, Assistant Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore, from November 2021 to January 2022.



Rekha P.D.
15.9.2022

Director
Yenepoya Research Centre
Yenepoya (Deemed to be University)

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



YENEPOYA

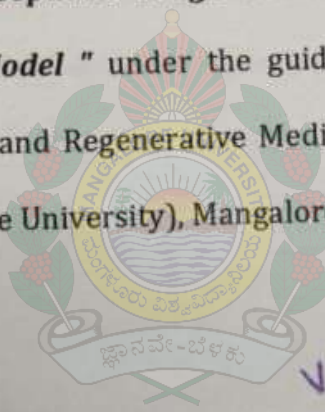
(DEEMED TO BE UNIVERSITY)

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

11.10.2022

CERTIFICATE

This is to certify that **Ms. Deepika Bhat. K (Reg. No: 201611385113)**, M. Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, 574199 Mangalore, has successfully completed her internship on the project titled ***"Assessing the Role of Homoeopathic Drugs on Osteogenic Differentiation using C3H10T1/2 Stem Cell Line Model "*** under the guidance of Dr. Sudheer Shenoy P, Associate Professor, Stem Cell and Regenerative Medicine Centre, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from June to August 2022.



VALUED

Rekha P. D.
11/10/2022

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

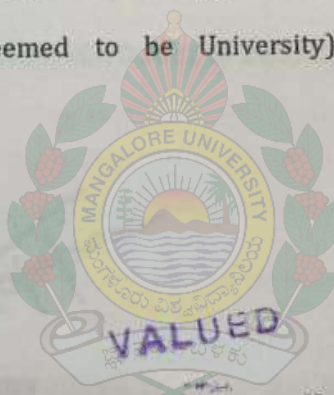
Director

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

10.10.2022

CERTIFICATE

This is to certify that **Mr. Dhanushkumar T (Reg. NO: 201611385114)**, M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri, 574199 Mangalore, has successfully completed his internship on the project titled ***"Isolation And Optimisation Of Cellulose Producing Bacteria And Its Applications"*** under guidance of Dr. Rajesh P. Shastry, Assistant Professor at Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from 20.10.2021 to 29.01.2022.



Rajesh P. D.
10/10/2022

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

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



NITTE
(Deemed to be University)

**NGSM INSTITUTE OF
PHARMACEUTICAL SCIENCES**

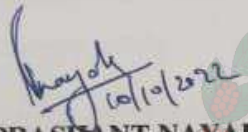
(Established under Section 3 of UGC Act, 1956)

Placed under Category 'A' by MHRD, GoI, Accredited with 'A+' Grade by NAAC

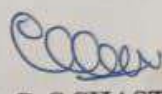
CERTIFICATE FROM THE PROJECT GUIDE

This is to certify that **PRAJNA S (201611385123)**, M.Sc Biotechnology, Department of Biosciences, Mangalore University, Mangalagangothri- 574 199, has undertaken the project entitled "**In Vitro Assessment of Antioxidant and Antibacterial Potential of Leaf Extract of *Sauropus androgynus***". She has finished her project at **NGSM Institute of Pharmaceutical Sciences, Nitte (DU)**, Deralakatte, Mangalore under my supervision from June 2022 to September 2022.

The same is being submitted to Mangalore University in partial fulfillment of the requirements for the award of Master's Degree in Biotechnology.


MR. PRASHANT NAYAK
PROJECT GUIDE
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACEUTICS




DR. C. S. SHASTRI
PRINCIPAL

NGSM Institute of Pharmaceutical Sciences
Panear, Deralakatte, Mangaluru - 575

VALID



भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड, केरल - 671 124 भारत
ICAR - Central Plantation Crops Research Institute
Kasaragod - 671 124, Kerala, India
(An ISO 9001:2008 Certified Institution)



Phone (OH) : 04994 - 232333
Fax : 04994 - 232322
EPABX : 04994 - 232893 - 95
04994 - 232090
04994 - 232896



E-mail : director.cpcr@icar.gov.in
director.cpcr@gmail.com
chandiappa.p@icar.gov.in
Website : <http://www.cpcr.gov.in>

CERTIFICATE

This is to certify that the M.Sc. project dissertation being submitted to Mangalore University towards partial fulfillment of the requirement of the award of the degree of MSc Biotechnology entitled "Suspension culture and protoplast isolation of areca nut and coconut - a preliminary study" was carried out under my guidance by Ms.Anjana.G.S, Student of IV sem MSc.Biotechnology, Department Of Biosciences, Mangalore University.

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

VALUED

11.10.22

(Dr. Neema.M)

डॉ (श्रीमती) एम.नीमा, वैज्ञानिक
Dr. (Smt) M. Neema, Scientist
कें रो फ अ सं CPCRI, कुडलु Kudlu (P.O)
कासरगोड Kasaragod-671124 केरल Kerala



Phone (Off.) : 04994 - 232333
Fax : 04994 - 232322
(EPABX) : 04994 - 232893-95
04994 - 232090
04994 - 232996

Email : director.cpcr@icar.gov.in
director.cpcr@gmail.com
Website : http://www.cpcr.gov.in



11 October 2022

CERTIFICATE

This is to certify that the M.Sc. project dissertation being submitted to Mangalore University towards partial fulfillment of the requirement of the award of the degree of MSc Biotechnology entitled **“Standardization of RNA extraction procedure from red palm weevil, a major pest of coconut palm”** was carried out under our guidance by **Ms. Ashwitha P.** Student of **IV Sem M.Sc Biotechnology**, Department of Biosciences, Mangalore University.

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

12/10/2022

(M. Sujithra)
Co-Guide

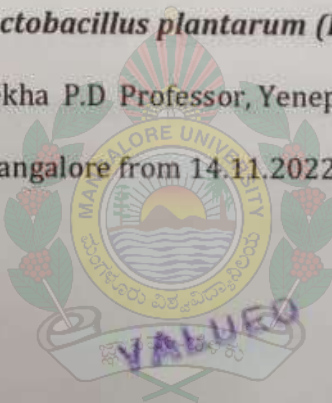
12/10/2022
(M. K. Rajesh)
Guide



10.10.2022

CERTIFICATE

This is to certify that **Mr. Ashwath Kesari (Reg. NO: 201611385110)**, M.Sc Biotechnology Student, Department of Biosciences, Mangalore University, Mangalagangothri, Mangalore has successfully completed his internship on the project titled "*Effect of probiotic Lactobacillus plantarum (E2C2) on oral cancer cell lines*" under the guidance of Dr.Rekha P.D Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore from 14.11.2022 to 15 02.2022.



Rekha P.D.
10/10/2022

Director

Yenepoya Research Centre
Yenepoya (Deemed to be University)

Director

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

Director

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

MANGALORE



UNIVERSITY

Dr. Dakshayini

Mobile: +91 8495011939

Department of Biosciences

Email: dakshayinikandoor2@gmail.com

Mangalore University

dakshayinikandoor@gmail.com

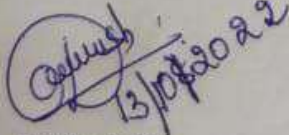
Mangalore, India

12 October 2022

CERTIFICATE

This is to certify that the M.Sc. Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and entitled **“Microwave Assisted Green Synthesis, Optimization, Characterization and Application of Silver Nanoparticles Using *Justicia wynaadensis* Leaf Extract”** was carried out under my guidance by **Ms. DIXITHA RAI BV**, student of **IV Semester 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.


Dr. Dakshayini

MANGALORE



UNIVERSITY

Dr. Bhavyashree U.

Department of Biosciences

Mangalore University

Mangalore.

Mobile: +91 9446684129

Email: bhavyau08@gmail.com

12 October 2022

CERTIFICATE

VALUE

This is to certify that the M.Sc. Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and entitled **“NUTRITIVE, ENZYMATIC AND MICROBIAL STUDY OF DIFFERENT SOIL SAMPLES OF PADDY FIELD”** was carried out under my guidance by Ms. **VANISHREE M**, student of **IV Semester 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.


12/10/2022
Dr. Bhavyashree U.

Dr. Naveen Chandra D

Lecturer

MANGALORE

UNIVERSITY

Mobile: +919995407950

Email:

nchandra06@gmail.com

naveenc@kannuruniv.ac.in

Department of Biosciences

Mangalore University

Mangalore, India



7 October 2022

CERTIFICATE

This is to certify that the M.Sc. 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 enzyme polyphenol oxidase by partial purification and extraction in peel and pulp of *Solanum lycopersicum***" was carried out under my guidance by **Ms. Manisha**, student of IV Semester 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.

Dr. Naveen Chandra D

MANGLORE



UNIVERSITY

Department of Biosciences

Mangalore University

Mangalagangothri – 574199

Karnataka, India

CERTIFICATE

This is to certify that the project entitled **ARC/ARG 3.1 IMMUNOHISTOCHEMISTRY IN STRESS PATHWAYS** is a bonafide work done by **Ms. Bhuvana H. E. (201611385112)** 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: 12/10/2022

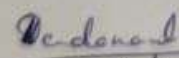
Dr. Chandra M

Chairperson
CHAIRPERSON

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

Examiners:

1. 
14/10/22

2. 
14/10/22

Dr. Monika Sadananda

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

MANGALORE



UNIVERSITY

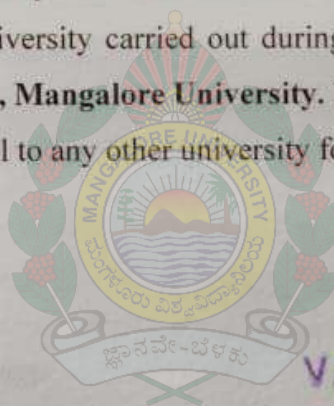
Department of Biosciences
Mangalagangothri-574199

CERTIFICATE

This is to certify that the project entitled “Isolation of Coumarin and Basic Phytochemical Study on *Alstonia scholaris*” is a bonafide work done by Ms. Kruthi.S (201611385119) towards the partial fulfillment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2021-22 at Department of Biosciences, Mangalore University. This work is original and has not been submitted in part or full to any other university for any other degree diploma.

Place: Mangalagangothri

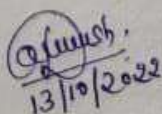
Date: 12-10-2022

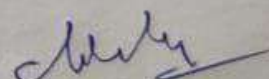




Coordinator
Co-ordinator

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


13/10/2022
Project Guide

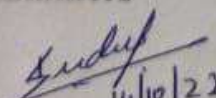


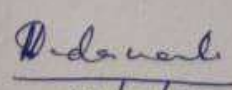
Chairperson

CHAIRPERSON

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

Examiners

1. 
14/10/22

2. 
14/10/22

Dr. Naveen Chandra D
Lecturer

MANGALORE



UNIVERSITY Email:

Mobile: +919995407950

Department of Biosciences

nchandra06@gmail.com

Mangalore University

naveenc@kannuruniv.ac.in

Mangalore, India

7 October 2022

CERTIFICATE

This is to certify that the M.Sc. 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 papain enzyme from carica papaya leaf and latex**" was carried out under my guidance by **Mr. Ajith Gowda N M**, student of IV Semester 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.

D Naveen

Dr. Naveen Chandra D

VALUED

MANGALORE



UNIVERSITY

Dr. Dakshayini

Mobile: +91 8495011939

Department of Biosciences

Email: dakshayinikandoor2@gmail.com

Mangalore University

dakshayinikandoor@gmail.com

Mangalore, India

12 October 2022

CERTIFICATE

This is to certify that the M.Sc. Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and entitled **"Synthesis, Characterization, Applications and Challenges of Iron Oxide Nanoparticles using *Rhizophora mucronata* leaves extract"** was carried out under my guidance by Ms. SHRADDA, student of IV Semester 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.

Dr. Dakshayini

Dr.Naveen Chandra D

Mobile: +91 9995407950

Lecturer

Email:

Department of Biosciences

nchandra06@gmail.com

Mangalore University

naveenc@kannuruniv.ac.in

Mangalore, India



MANGLORE

UNIVERSITY

7 OCTOBER 2022

CERTIFICATE

This is to certify that the M.Sc. 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 "A Bioplastic manufacturing from *Artocarpus heterophyllus* (Jackfruit seed) and chiosan using sorbitol was carried out under my guidance by Mr. PRADEETH A, student of IV Semester 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.

D Naveen

Dr. Naveen Chandra D

MANGALORE



UNIVERSITY

Dr. Bhavyashree U
Department of Biosciences
Mangalore University

Mobile: +91 8495011939

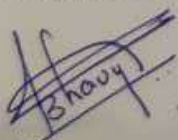
Email: bhavyau08@gmail.com

12 October 2022

CERTIFICATE

This is to certify that the M.Sc. Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and entitled "**NUTRITIVE, ENZYMATIC AND MICROBIAL STUDY OF DIFFERENT SOIL SAMPLES OF ARECANUT FIELD**" was carried out under my guidance by Mr. ARUN H S, student of IV Semester 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.


12/10/2022

Dr. Bhavyashree U

VALUED

MANGALORE



UNIVERSITY

Dr. Dakshayani

Mobile: +91 8495011939

Department of Biosciences

Email: dakshayinikandoor2@gmail.com

Mangalore University

dakshayinikandoor@gmail.com

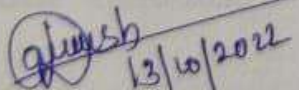
Mangalore, India

12 October 2022

CERTIFICATE

This is to certify that the M.Sc. Project Dissertation being submitted to Mangalore University towards partial fulfilment of the requirement for the award of the degree of M.Sc. in Biotechnology and entitled **“Wine production from various underutilised and neglected fruits in South Canara Districts”** was carried out under my guidance by **MS. SHREYA**, student of **IV Semester 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.


13/10/2022
Dr. Dakshayani

Dr. Naveen Chandra D

Guest Lecturer

Department of Biosciences

Mangalore University

Mangalore, India

MANGALORE



UNIVERSITY

Mobile: +91 9995407950

Email:

nchandra06@gmail.com

naveenc@kannuruniv.ac.in

12 October 2022

CERTIFICATE

This is to certify that the M.Sc. 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 "**A Study on Pharmacological Activities of *Boerhavia diffusa***" was carried out under my guidance by **Ms. Shrinidhi Bhat**, student of **IV Semester 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.

Dr. Naveen Chandra D

Dr.Naveen Chandra D

Lecturer

Department of Biosciences

Mangalore University

Mangalore, India

Mobile: +91 9995407950

Email:

nchandra06@gmail.com

naveenc@kannuruniv.ac.in



MANGALORE

UNIVERSITY

7 OCTOBER 2022

CERTIFICATE

This is to certify that the M.Sc. 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 "**BIOCHEMICAL INVESTIGATION OF *Senna alata* LEAVES**" was carried out under my guidance by **Mr.JEEVANESH J R**, student of **IV Semester 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.

D Naveen

Dr. Naveen Chandra D

VALUED



MANGALORE

UNIVERSITY

Department of Biosciences

Mangalore University

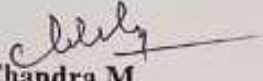
Mangalagangothri-574199, Karnataka, India

CERTIFICATE

This is to certify that the project entitled **ARC /ARG 3.1 IMMUNOHISTOCHEMISTRY IN LEARNING AND MEMORY** is a bonafide work done by **Ms. Spandana N S (201611385131)** towards the partial fulfillment of M.Sc. Degree in Biotechnology Programme, Mangalore University carried out during the academic year 2021-22 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.

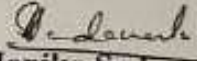
Place: Mangalagangothri

Date: 12/10/2022


Dr. Chandra M

Chairperson
CHAIRPERSON

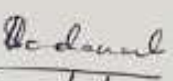
Department of Biosciences
Mangalore University
Mangalagangothri 574 199
Karnataka State (India)
Examiners


Dr. Monika Sadananda

Coordinator

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

1. 
14/10/22

2. 
14/10/22