



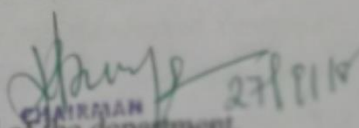
MANGALORE UNIVERSITY
JNANA KAVERI CAMPUS, CHIKKA ALUVARA, KODAGU

CERTIFICATE

This is to certify that Miss. LIYA MATHEW has submitted a dissertation entitled **“IN VITRO SYNERGY OF EUGENOL WITH CIPROFLOXACIN AGAINST CLINICAL STRAINS OF *Acinetobacter baumannii* USING, THE CHECKERBOARD MICRODILUTION”** which was carried out under the guidance of Dr. Rekha P.D, Deputy Director and Professor, Yenepoya Research Centre, Yenepoya University, Deralakatte, Mangalore, Karnataka in partial fulfillment for the award of the Degree of Master of Science in Microbiology, during June – July 2018

Place: Chikka Aluvara

Date: 28/9/2018


Head of the department,
Department of Microbiology,
P. G Centre, Mangalore University



SRI DHARMASTHALA MANJUNATHESHWARA

COLLEGE OF AYURVEDA & HOSPITAL

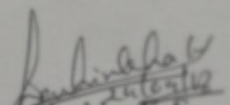
HASSAN- 573201

2017-18

CERTIFICATE

This is to certify that **Ms. Sheethal K.S** 2nd year M.Sc Microbiology student of Jnana Kaveri PG Center Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled “ **Comparison study of aqueous and alcoholic extraction of *Azadirachta indica* against pathogenic bacteria**”, under my guidance and direct supervision at microbiology lab of Ayurveda college and hospital, Hassan

Place: Hassan
Date: 23-7-2018


Mrs. Shashirekha K.S. M.Sc M.Phil (PMD)
Microbiologist
SDM college of Ayurveda,
Hassan
Phone: 08362 251111, 08362 251112
Fax: 08362 251113, 08362 251114

CODAGU AGRITECH-ECO

Kudlur, Kushalnagar

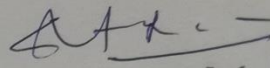
CERTIFICATE:

This is to certify that Ms.BHAGYASHREE K B II MSc Microbiology student of Jnana Kaveri, P.G Centre, Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled “**CHARACTERIZATION AND IDENTIFICATION OF TRICHODERMA AND PGPR ON Cardamam**”, under the guidance of Dr.Chaithra and direct supervision at Codagu agritech – eco, Kudlur, Kushalnagar.

Place: Kushalnagar

Date: 07/08/2018

CODAGU AGRITECH ECO
P.O. Box #58, Plot # 24/3 & 24/4
KIADB Industrial Area
Kudlur, Kushalnagar - 571234


12/12/2018

Dr.Chaithra Narayan
Codagu agritech-eco
Kudlur, Kushalnagar



UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN EARTH SCIENCE

Prof.K.Byrappa
DeputyCoordinator,
DOS in MaterialsScience,
University of Mysore
ManasaGangothri.
Mysore-570006.

Phone: 0821-2419450
E-mail-Kbyrappa@gmail.com

CERTIFICATE

This is to certify that, **Ms MRUDULA T.U**, Post-Graduate student of Mangalore University, P.G Centre, ChikkaAluvara, Kodagu, has satisfactory completed her summer project entitled **"Biosynthesis of Lead nanoparticle; characterization, antimicrobial, antioxidant, in vitro biocompatibility studies and DNA isolation and purity analysis"**. In Nano-Bioscience of Lab, Department of Earth Science University of Mysore, ManasaGangothri, is prepared and submitted for the partial fulfilment of the **Master Degree in Microbiology**. This project was undertaken in our department from 6th June 2018 to 24st July 2018. Further, this project has not been submitted for any Degree/Diploma of any University earlier.

ProjectSupervisor

Proof K.Byrappa.

B.S. Srinath.

no signature
of supervisor
13/11/18



SRI DHARMASTHALA MANJUNATHESHWARA

COLLEGE OF AYURVEDA & HOSPITAL

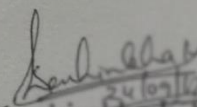
HASSAN- 573201

2017-18

CERTIFICATE

This is to certify that **Ms. Rakshitha D** 2nd year M.Sc Microbiology student of Jnana Kaveri PG Center Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled “ **Efficacy of aqueous and alcoholic extraction of *Piper nigrum* against pathogenic bacteria**”, under my guidance and direct supervision at microbiology lab of Ayurveda college and hospital, Hassan

Place: Hassan
Date: 23-7-2018


Mrs. Shashirekha K.S. M.Sc, M.Phil (PMD)
Microbiologist
SDM college of Ayurveda,
Hassan
H. No. 118, Hassan-573 201



K S HEGDE MEDICAL ACADEMY
CENTRAL RESEARCH LABORATORY

P.O.Nithyananda Nagar, Deralakatte, Mangalore-575018

CERTIFICATE

This is to certify that Ms.POOJASHREE II semester M.Sc Microbiology student of Jnana Kaveri PG Centre, Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled **“Screening of enteric pathogen *Escherichia coli* from the fish effluents from various fish markets in and around Mangalore”**, Under my guidance and direct supervision at Central Research Laboratory (CRL), K.S.Hegde Medical Academy (KSHEMA), Nitte (Deemed to be University).

Place: Mangalore

Date: 4.8.2018

Dr.A.Veena Shetty

Scientific Officer

Central Research Laboratory

Additional Professor, Department of Microbiology

K S Hegde Medical Academy

KSHEMA, (Deemed to be University)

Deralakatte, Mangalore

Central Research Laboratory (CRL)

K S HEGDE MEDICAL ACADEMY

NITTE, MANGALORE - 575 018

Karnataka, India

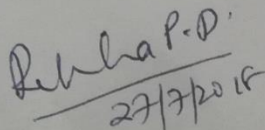
YENEPOYA RESEARCH CENTRE

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

27.07.2018

CERTIFICATE

This is to certify that, Ms. Grace Thomas, MSc Microbiology, Mangalore University, PG Centre, Chikka Aluvara has undertaken a project titled "Antibacterial and Antibiofilm activity of essential oil 'isoeugenol' against human pathogens" under the guidance of Dr. Rekha P.D., Professor & Deputy Director and Dr. Rajesh P. Shastry, Assistant Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Deralakatte, Mangalore during 12th June 2018 to 27th July 2018.


27/7/2018

Dr. Rekha P.D.

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



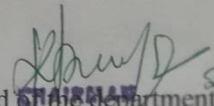
PG CENTRE, JNANA KAVERI CAMPUS
MANGALORE UNIVERSITY,
CHIKKA ALUVARA, KODAGU

CERTIFICATE

This is to certify that Miss .Grace Thomas has submitted a dissertation entitled **"Antibacterial and Antibiofilm activity of essential oil 'Isoeugenol' against human pathogens"** which was carried out under the guidance of Dr. Rekha P.D, Deputy Director and Professor, Yenepoya Research Centre, Yenepoya University, Deralakatte, Mangalore, Karnataka in partial fulfillment for the award of the Degree of Master of Science in Microbiology, 2018 June 11 to July 27 .

Place: Chikka Aluvara

Date: 27/9/18


Head of the department,
Department of Microbiology,
Department of Microbiology,
Chikka Aluvara-571232, Kodagu, India
P. G Centre, Mangalore University

CODAGU AGRITECH-ECO

Kudlur, Kushalnagar

CERTIFICATE:

This is to certify that Ms.BHAVYASHREE D A II MSc Microbiology student of Jnana Kaveri, P.G Centre, Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled “**CHARACTERIZATION AND IDENTIFICATION OF TRICHODERMA AND PGPR ON *Piper nigrum***”, under the guidance of Dr.Chaithra and direct supervision at Codagu agritech – eco, Kudlur, Kushalnagar.

Place: Kushalnagar

Date: 07/08/2018

CODAGU AGRITECH ECO
P.O. Box #58, Plot #24/3 & 24/4
KIADB Industrial Area
Kudlur, Kushalnagar - 571234

[Signature] - 12/12/2018

Dr.Chaithra *Narayan*

Codagu agritech-eco

Kudlur, Kushalnagar



YENEPOYA
(DEEMED TO BE UNIVERSITY)
Recognised under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

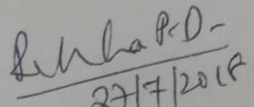
YENEPOYA RESEARCH CENTRE

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

27.07.2018

CERTIFICATE

This is to certify that, Ms. Bineesha K.B., MSc Microbiology, Mangalore University, PG Centre, Chikka Aluvara has undertaken a project titled "Control of virulence and pathogenicity of *pseudomonas aeruginosa*" under the guidance of Dr. Rekha P.D., Professor & Deputy Director and Dr. Rajesh P. Shastry, Assistant Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Deralakatte, Mangalore during 12th June 2018 to 27th July 2018.


27/7/2018.
Dr. Rekha P.D.

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



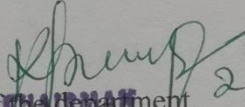
**P. G. CENTRE, MANGALORE UNIVERSITY,
CHIKKA ALUVARA, KODAGU**

CERTIFICATE

This is to certify that Miss. Bineesha K.B has submitted a dissertation entitled
“Control of virulence and pathogenicity of *Pseudomonas aeruginosa*”
which was carried out under the guidance of Dr. Rekha P.D, Deputy Director
and Professor, Yenepoya Research Centre, Yenepoya University,
Deralakatte, Mangalore, Karnataka in partial fulfillment for the award of the
Degree of Master of Science in Microbiology, during June 12th to July 27th

Place: ChikkaAluvara

Date:


Head of the Department,
Department of Microbiology
Department of Microbiology
Mangalore University, P.G. Research Centre
Chikka Aluvara-571232, Kodagu, India
P. G Centre, Mangalore University



SRI DHARMASTHALA MANJUNATHESHWARA

COLLEGE OF AYURVEDA & HOSPITAL

HASSAN- 573201

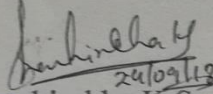
2017-18

CERTIFICATE

This is to certify that **Ms.PREETHI.M.M** 2nd year M.Sc Microbiology student of Jnana Kaveri PG Center Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled “ **Antimicrobial susceptibility of fruits of *Embelia ribes* against pathogenic bacteria**”, under my guidance and direct supervision at microbiology lab of Ayurveda college and hospital, Hassan

Place: Hassan

Date: 23-7-2018


24/09/18
Mrs. Shashirekha K. S. M.Sc., M.Phil (P.hD)
Microbiologist
SDM college of Ayurveda
Hassan-573201



UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN EARTH SCIENCE

Prof.K.Byrappa
DeputyCoordinator,
DOS in MaterialsScience,
University of Mysore
ManasaGangothri.
Mysore-570006.

Phone: 0821-2419450
E-mail-Kbyrappa@gmail.com

CERTIFICATE

This is to certify that, **Ms RESHMA T.R**, Post-Graduate student of Mangalore University, P.G Centre, ChikkaAluvara, Kodagu, has satisfactory completed her summer project entitled **“Lactic acid bacteria mediated biosynthesis of Lanthanum nanoparticle; Characterization, antimicrobial, invitro biocompatibility studies and DNA isolation and purity analysis”**. In Nano-Bioscience of Lab, Department of Earth Science University of Mysore, ManasaGangothri, is prepared and submitted for the partial fulfilment of the **Master Degree in Microbiology**. This project was undertaken in our department from 6th June 2018 to 24th July 2018. Further, this project has not been submitted for any Degree/Diploma of any University earlier.

Project Supervisor

Proof K.Byrappa.

B.S. Srinath.

CODAGU AGRITECH-ECO

Kudlur, Kushalnagar

CERTIFICATE:

This is to certify that Ms.ANUSHA.K II MSc Microbiology student of Jnana Kaveri, P.G Centre, Chikka Aluvara, Kodagu, Mangalore University has carried out short term project entitled **“CHARACTERIZATION AND IDENTIFICATION OF TRICHODERMA AND PGPR ON Punica granatum”**, under the guidance of Dr.Chaithra and direct supervision at Codagu agritech – eco, Kudlur, Kushalnagar.

Place: Kushalnagar

Date: 07/08/2018

CODAGU AGRITECH ECO
P.O. Box #58, Plot #24/3 & 24/4
KIADB Industrial Area
Kudlur, Kushalnagar - 571234

Dr. Chaithra Narayan
Dr.Chaithra Narayan
Codagu agritech-eco
Kudlur, Kushalnagar

12/12/2018



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “Antimicrobial and phytochemical studies of selected Indian spices and tobacco leaf against multidrug resistant human pathogens” is a bonafide work of Ms. Anagha C (175115801) towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of Mrs. Chaitrapriya C M , Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri
Date: 03-05-2019

Chairperson

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Efficacy of chemical preservatives on food spoilage bacteria**” is a bonafide work of **Ms. Ashwitha (175115802)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2017-2018, under the guidance of **Mrs. Annapoorna**, Guest faculty., Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled **“Production of different Agro waste Biofertilizers and study of their effects on *Eleusine coracana* growth”** is a bona fide work of **Ms.Chaitra.K (175115804)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah** Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03-05-2019

Chairman
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences

Mangalagangothri-574199

Karnataka, India.

Certificate

This is to certify that the project work entitled “**Microbiological Analysis and Antimicrobial Susceptibility Pattern of Bacteria Isolated from Ground Water**” is a bonafide work of **Ms. DEEPIKA MARUTI DEVADIG (175115805)** towards the partial fulfillment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. Annapoorna**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03-05-2019

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “Antimicrobial activity of medicated soaps and ayurvedic soaps on normal flora of skin” is a bona fide work of Ms. Feba Elizabeth Abraham (175115806) towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of Mrs. Chaitrapriya C M, Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03-05-2019

Chairperson

CHAIRMAN

**Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)**



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Antimicrobial activity of honey on *Staphylococcus aureus* isolated from infected wound**” is a bonafide work of **Ms. Gowthami C. D (175115807)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs Chaitrapriya C. M** Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: *Mangalagangothri*

Date: *02/05/2019*

Examiners: 1.

2.

[Signature]
3.5.19

Chairman
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199 Karnataka, India.

Certificate

This is to certify that the project work entitled "**A Comparative Study On Fermentation Of Tubers**" is a bonafide work of **Mr. JAGANATH (175115808)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. ANNAPOORNA**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled **“Invitro evaluation and study of beetroot juice as an alternative growth and maintenance media for selected bacteria”** is a bonafide work of **Ms. KAVYASHREE (175115809)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Ms. Amrutha N K.**, Guest faculty, Dept. of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03-05-2019

Chairperson

*CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)*



MANGALORE UNIVERSITY

Department of Bio-Sciences

Mangalagangothri-574199

Karnataka, India.

Certificate

This is to certify that the project work entitled **"Preliminary Screening of Soil and Water For L-Asparaginase Production"** is a bonafide work of **Ms. MEGHA (175115810)** towards the partial fulfillment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. Annapoorna**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/19.

Chairman

CHAIRMAN

*Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)*



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Antibacterial Activity of Different Extracts of *Andrographis paniculata***” is a bonafide work of **Ms. MEGHANA (175115811)** towards the partial fulfillment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 02-05-2019

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Preliminary Phytochemical Screening And Antibacterial Activity of *Citrus sinensis* Extracts**” is a bonafide work of **Mr. MUKHESH .B (175115812)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Ms. Amrutha N K.**, Guest faculty, Dept. of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Examiners:

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Bioethanol production from Neem tree leaves using *Saccharomyces cerevisiae* as fermenting agent**” is a bonafide work of **Ms. NAVYA (175115813)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Ms. Amrutha N K.**, Guest faculty, Dept. of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 3-5-2019

Chairperson
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

CERTIFICATE

This is to certify that the project work entitled “**Production and analysis of wine from coconut and tender coconut water using *Saccharomyces cerevisiae* and its comparative study**” is a bonafide work of **Mr. PRANAV P.K (175115815)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Ms. Amrutha N. K** guest faculty, Dept. of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019

Examiners:

1.

2.

Chairperson

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**A study on phytochemical and antibacterial properties of *Memecylon malabaricum* plant**” is a bona fide work of **Ms. PRIYADARSHINI (175115816)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Comparative analysis of wines from different banana varieties**” is a bona fide work of **Mr. ROHAN V ANKOLEKAR (175115818)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah**, Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 04/05/19

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Production and evaluation of wine from different fruits**” is a bonafide work of **Mr. Sagar Anil Pednekar (175115819)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. Chaitrapriya C M**, Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 04/05/2019

Examiners:

- 1.
- 2.

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled "*Anethum graveolens* Linn.: Its anti-pathogenic potentials and phytochemical study" is a bona fide work of Ms. SUMAYATH AZMIYA (175115821) towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of Dr. Nannu Shafakatullah, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences

Mangalagangothri-574199

Karnataka, India.

Certificate

This is to certify that the project work entitled “**Screening, characterization and extraction of bioactive pigment from Actinomycetes for textile dying**” is a bona fide work of **Ms. Supritha Bhandarkar B (175115822)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. Annapoorna** Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences

Mangalagangothri-574199

Karnataka, India.

Certificate

This is to certify that the project work entitled “**Water quality analysis of selected flowing water bodies and isolation and characterization of bacteria from most common colonies**” is a bonafide work of **Ms. SWASTHIKA (175115823)** towards the partial fulfillment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs. Annapoorna**, Faculty, Microbiology Course, Department of Bio-Sciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/19

Chairman

CHAIRMAN

Department of Bio-Sciences

Mangalore University

Mangalagangothri-574199

Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “A Study on the effects of common pesticides on soil microbes” is a bona fide work of Ms. Swati H.S (175115824) towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah** Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri
Date: 02/05/2019

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Antimicrobial activity of *Musa paradisiaca* leaf and fruit peel extracts against human pathogens**” is a bona fide work of **Ms. VEENA K. HARIKANT (175115825)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Dr. Nannu Shafakatullah**, Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019.

Chairman

CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Extraction of natural dye from *Lawsonia inermis* (Mehndi) and its use as a staining reagent for microorganisms**” is a bonafide work of **Ms. VINAYASHREE K.G (175115826)** towards the partial fulfilment of M.Sc. Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Ms. Amrutha N K.**, Guest faculty, Dept. of Biosciences, Mangalore University.

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

Place: Mangalagangothri

Date: 03/05/2019

Chairperson
CHAIRMAN
Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



MANGALORE UNIVERSITY

Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled "**Comparative Evaluation of Inhibitory Effect of Disinfectants on pathogenic Bacteria**" is a bona fide work of **Ms. Zovilla D'souza(175115827)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2018-2019, under the guidance of **Mrs Chaitrapriya C.M** Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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

Place: **MANGALAGANGOTRI**

Date: **8-5-2019**

Chairman
CHAIRMAN

Department of Bio-Sciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



EUCHEM BIOLOGICALS

RESEARCH, ANALYTICAL LABORATORY AND TRAINING CENTRE

PLOT #10, SHIVALLI INDUSTRIAL ESTATE, ALEVOOR ROAD, MANIPAL-576104

CONTACT PHONE: 09448240099, 08660668958


EMAIL: euchembiologicals@gmail.com or dsilvavila@gmail.com

CERTIFICATE

This is to certify that **Ms. Pallavi Bhat A (Reg No. 175115814)** of Department of Bio-sciences, Mangalore University, Mangalagangothri, Mangalore, Karnataka, has undertaken a project entitled **“Qualitative Analysis Of Phytochemicals And Evaluation Of Antibacterial Activity Of *Hydnocarpus Pentandra* Extracts Against Some Human Pathogenic Bacteria”** in her fourth semester of M.Sc in Microbiology, at Eucem Biologicals, Manipal under the guidance of Dr. Avila D'Souza towards partial fulfilment of the degree in Master of science in Microbiology. No part of this thesis has been used for the award of any other degree.

Date: 28/04/2019

Place: Manipal.

 1/5/19
Guide: Dr. Avila D'Souza

Nature to Nurture: Seeking Answers to Questions



YENEPOYA

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

Yenepoya Research center, Yenepoya (deemed to be) – 574199, Mangalore, Karnataka, INDIA

Ph.No: 0824 220 4668; Mobile: +91-8197138628 ; Email: yash28bhandary@gmail.com

Date: 30/04/2019

DR. Yashodhar Bhandary.

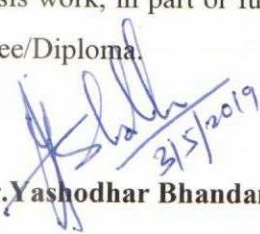
Associate Professor

Yenepoya research center

CERTIFICATE

I hereby certify that this thesis entitled **“Effect of Curcumin on the modulation of MAPK/ERK and AKT protein level in IL17A induced lung inflammation”** submitted by **Sinchana G Bhat (175115820)** M.Sc. Microbiology, Department of Bio-Sciences, Mangalore University for the award of degree in Masters of Science in Microbiology, embodies the results of bona fide research work carried out under my guidance and direct supervision in Yenepoya Research Center, Yenepoya (deemed to be) University, Mangalore-575018, during Jan to May 2019. I further certify that this thesis work, in part or full, has not been submitted to any other University/Institution for any Degree/Diploma.

Place: Yenepoya Research Center


(Dr. Yashodhar Bhandary)



EUCHEM BIOLOGICALS

RESEARCH, ANALYTICAL LABORATORY AND TRAINING CENTRE
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EMAIL: euchembiologicals@gmail.com or dsilvavila@gmail.com

CERTIFICATE

This is to certify that **Mr. Chaithanya Kedila (Reg.No: 175115803)** of Department of Bio-sciences, Mangalore University, Mangalagangothri, Mangalore, Karnataka, has undertaken a project entitled “**Ash And Methanolic Extract Analysis Of Cowdung Of Different Cattle Varieties And Evaluation Of Their Antibacterial Property**” in his fourth semester of M.Sc in Microbiology, at Eucem Biologicals, Manipal under the guidance of Dr. Avila D'Souza towards partial fulfilment of the degree in Master of science in Microbiology. No part of this thesis has been used for the award of any other degree.

Date: 28/04/2019

Place: Manipal.

Handwritten signature and date: 11/5/19

Guide: **Dr. Avila D'Souza**

Nature to Nurture: Seeking Answers to Question



RAJ FISHMEAL AND OIL COMPANY

(An ISO 9001:2015 Certified Company)

PREVIOUSLY CORONET FISHMEAL AND OIL CO.

D.No. 1-23, 3rd Cross, Malpe-Madhwaraj Road, MALPE-576108 Udupi Dist. KARNATAKA, INDIA

Phone: (0820) 2537581, 2537585

Email: office@rajfishmeal.com Website: www.rajfishmeal.com

GSTIN: 29AAUFR3877L1Z1



Accreditation Number: S1410994MA

Date: 26/07/2018

CERTIFICATE

This is to certify that Ms. Rashmi.B. Naik (Bearing Reg.No: 175115817) studying First Year M.sc at Mangalore University. She has undertaken Internship in our organization on the topic "Microbiological analysis and testing at "Raj Fishmeal and Oil Company Fish processing in Malpe at Udupi, situated in West coast of Karnataka. During the period from 11th June-2018 to 25th July-2018

During her Internship, we found her sincere, dedicated and hard working.

We wish a very best in her future life.

For **RAJ FISHMEAL AND OIL COMPANY**

HR Manager

