



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

CERTIFICATE

This is to certify that the project work entitled “**Isolation and characterization of bacteriocin producing bacteria from sweet lime juice**” is a bonafide work of **Mr. Ajith K R (193082501)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Dr. Rizwana Abid**, 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: 02-11-2021

Examiners:

- 1.
- 2.

Coordinator

Co-ordinator
M.Sc. Microbiology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
Mangalagangothri-574199
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Certificate

This is to certify that the project work entitled “Antibacterial activity of honey with special reference on methicillin - resistant *Staphylococcus aureus* (MRSA) and methicillin - sensitive *Staphylococcus aureus* (MSSA)” is a bonafide work of Mr. Arun Kumar K P (193082503) towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 04.11.2021

Examiners:

- 1.
- 2.

Coordinator:

Co-ordinator
M.Sc. Microbiology Course
DEPARTMENT OF BIO-SCIENCES
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Mangalagangothri-574199
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Certificate

This is to certify that the project work entitled “**BIOSORPTION OF HEAVY METALS BY USING BACTERIA AND FUNGI**” is a bonafide work of **Ms. ASHWADHI .K (193082504)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **DR. RIZWANA ABID**, 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: 08/11/2021

Examiners:

1.

2.

Coordinator:
Co-ordinator

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DEPARTMENT OF BIO-SCIENCES
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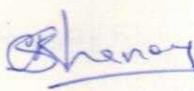
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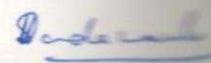
Department of Bio-Sciences
Mangalagangothri-574199
Karnataka, India

Certificate

This is to certify that the project work entitled "Study of biological activity of *Sepimaria trifoliatus*" is a bona fide work of Ms. Beena D. V. (Reg. No. 193082505) towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, under the guidance of Dr. Nannu Shafiqul Islam, 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: 06/11/2021


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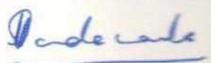
This is to certify that the project work entitled “**Isolation and identification of *Azospirillum* from different paddy fields of Karnataka**” is a bona fide work of Ms. **Bhavyashree (Reg. No. 193082506)** towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, 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: 6/11/2021


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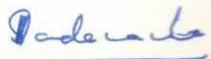
Certificate

This is to certify that the project work entitled “**Bio-diversity of Yeasts from Mangrove Ecosystem**” is a bona fide work of **Ms. Dafney Shaila Coelho (Reg. No. 193082507)** towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, 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: Mangalore
Date: 06/11/21


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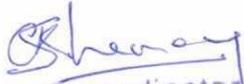
Certificate

This is to certify that the project work entitled “**Production of bio-enzymes from organic wastes**” is a bona fide work of **Ms. Gayathri Devi (Reg. No. 193082508)** towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, 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: 6/11/2021


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Karnataka, India.

Certificate

I hereby certify that this thesis entitled “**Screening, Production and Purification of L-asparaginase from Bacteria**” submitted by **Ms. Harshitha Muthayya Salian (193082509)**, towards the partial fulfillment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, under the guidance of **Mrs. Annapoorna**, faculty, Microbiology Course, Department of Bio-sciences, Mangalore University.

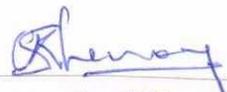
This work is original and has not been submitted in part or full to any other University for any degree or diploma.

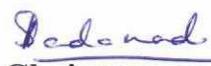
Place: Mangalagangothri

Date: 08/11/2021

Examiners:

- 1.
- 2.


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DEPARTMENT OF BIOSCIENCES
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Karnataka, India.

Certificate

This is to certify that the project work entitled “**Isolation and identification of Probiotic lactic acid bacteria from Toddy**” is a bona fide work of **Ms. Harshitha N.M (193082510)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mr. Dhanush. N. Begur**, Guest 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:

Examiners:

1.

2.

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Co-ordinator

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Certificate

This is to certify that the project work entitled "**Production, purification, characterization and applications of microbial lipases**" is a bonafide work of Ms. **Hilda christabel. A (193082511)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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

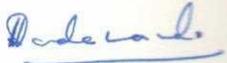
Date: 06/11/2021

Examiners:

1.

2.


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CERTIFICATE

This is to certify that the project work entitled “**Isolation, characterization and applications of bacterial cellulase**” is a bonafide work of **Mr. Hrishiksha B (193082512)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Dr. Rizwana Abid**, 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: 06/11/2021

Examiners:

1.

2.

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This is to certify that the project work entitled “Isolation Of Bacteria From Pani Puri Water” is a bonafide work of **Ms. Hublikar Harshitha (193082513)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mr. Dhanush. N. Begur**, 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.

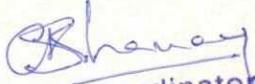
Place: Mangalagangothri

Date: 06/11/21

Examiners:

1.

2.


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M.Sc. Microbiology Course
DEPARTMENT OF BIO-SCIENCES
Mangalore University
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Karnataka State (India)



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Certificate

This is to certify that the project work entitled “Isolation and identification Of microorganisms responsible for the spoilage of tomato fruit, *Lycopersicum esculentum*” is a bonafide work of Ms. Inchara M.R (193082514) towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of Mr. Dhanush. N. Begur, 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: 8/11/2021

Examiners:

- 1.
- 2.


Coordinator:
Co-ordinator
M.Sc. Microbiology Course
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Mangalore University
Mangalagangothri-574199
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Karnataka State (India)



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Karnataka, India

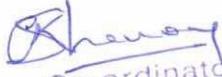
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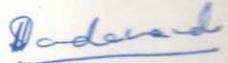
This is to certify that the project work entitled “**Production of Beta-Carotene from Marine Yeasts**” is a bona fide work of **Ms. Jennifer Crasta (Reg. No. 193082515)** towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, 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: MANGALAGANGOTTHRI

Date: 06/11/2021


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

Certificate

This is to certify that the project work entitled “**Drinking Water Quality Analysis for Physical, Chemical and Biological Parameters**” is a bonafide work of **Ms. Konjengbam Rani Devi (193082516)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mr. Dhanush. N. Begur**, 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

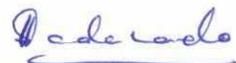
Date:

Examiners:

1.

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Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled "**Isolation and characterization of keratin degrading organisms from poultry farm soil**" is a bonafide work of **Ms. Navyashree. A (193082517)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 08 - 11 - 2021

Examiners:

1.

2.

Coordinator:
Co-ordinator

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Karnataka, India.

Certificate

This is to certify that the project work entitled “**Isolation and Identification of Microorganism responsible for spoilage of Onion (*Allium cepa*)**” is a bonafide work of **Ms. Pooja.B (193082518)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mrs. Chaitrapriya C. M**, Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

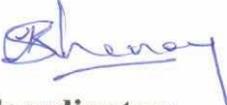
This work is original and has not been submitted in part or full to any other University for any degree or diploma.

Place: Mangalagangothri

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Examiners:

- 1.
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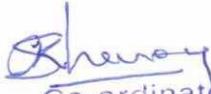
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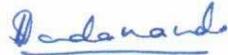
Certificate

This is to certify that the project work entitled "**Hydrocarbon degradation potentials of Yeasts isolated from Mangroves**" is a bona fide work of **Ms. Prathyaksha (Reg. No. 193082519)** towards the partial fulfilment of M.Sc., degree in Microbiology, Mangalore University, carried out during the academic year 2020-21, 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: 04/11/2021


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Certificate

This is to certify that the project work entitled **“Isolation, screening and characterization of cellulose degrading bacteria”** submitted by **Ms. Sahana (193082520)**, towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 08/11/2021

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Certificate

This is to certify that the project work entitled "**Phytochemical, Antioxidant and Antimicrobial activities of rhizome extracts of *Kaempferia galanga***" is a bonafide work of **Ms. Serin Sabu (193082521)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mrs.Chaitrapriya C M**, Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

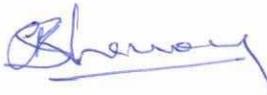
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Place: Mangalagangothri

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CERTIFICATE

This is to certify that the project work entitled “**Antimicrobial activity of *Tabernaemontana divaricata* Leaf and Flower extract against Bacteria and Fungi**” is a bonafide work of Ms. **SHILPA (193082522)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Dr. RIZWANA ABID**, 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: 08/11/2021

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Karnataka, India.

Certificate

This is to certify that the project work entitled “**Characterization of antagonistic microbes from the rhizosphere of sugarcane germplasm**” is a bona fide work of **Ms. Shilpa Raghavan (Reg. No. 193082523)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mr. Dhanush. N. Begur**, Guest Faculty, Microbiology Course, Department of Biosciences, Mangalore University.

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Place: Mangalagangothri

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Karnataka State (India)



MANGALORE UNIVERSITY

Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

CERTIFICATE

This is to certify that the project work entitled “**Isolation and Identification of microorganisms from street food**” is a bonafide work of **Ms. SHWETHA (193082524)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Dr. RIZWANA ABID**, 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: 08/11/2021

Examiners:

- 1.
- 2.

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

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



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled "**Hydrocarbon Degrading Fungi From Contaminated Soil**" is a bonafide work of **Mr. Sachith JRG (193082525)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 04/11/2021

Examiners:

- 1.
- 2.

Coordinator:
Co-ordinator

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

Chairperson:

CHAIRPERSON
Department of Biosciences
Mangalore University
Mangalagangothri-574199
Karnataka State (India)



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Determination Of Formalin Content And Evaluation Of Microbial Load In Marine Fish And Canned Fish.**” is a bonafide work of **Mr. UDAYA KUMAR (193082526)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 06/11/2021.

Examiners:

- 1.
- 2.


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


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



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Isolation, characterization and efficiency of phosphate solubilizing bacteria**” is a bonafide work of **Ms. Vaishali K.V (193082527)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 08/11/2021

Examiners:

1

2

Coordinator:
Co-ordinator

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

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



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled “**Comparative analysis of Antimicrobial Property of Ginger and Garlic**” is a bonafide work of **Ms. Varada Saraswathi (193082529)** towards the partial fulfilment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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:

Examiners:

Coordinator

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

Chairperson

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

- 1.
- 2.



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled "**Production and Testing of Wine**" is a bonafide work of **Ms. Vasudha Y. S. Bhat (193082529)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, under the guidance of **Mr. Dhanush. N. Begur**, 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:

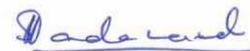
Examiners:

1.

2.


Co-ordinator

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



Chairperson:

CHAIRPERSON

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



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Department of Biosciences
Mangalagangothri-574199
Karnataka, India.

Certificate

This is to certify that the project work entitled **“Isolation, production, screening and antimicrobial activity of pigment producing microorganism.”** is a bonafide work of **Ms. Vismitha G. (193082530)** towards the partial fulfillment of M.Sc., Degree in Microbiology, Mangalore University, carried out during the academic year 2020-2021, 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: 06-11-2021

Examiners:

1.

2.

Coordinator:
Co-ordinator

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

Chairperson:
CHAIRPERSON

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

MANGALORE



UNIVERSITY

CERTIFICATE

This is to certify that Ms. SUSHMITHA. M 4th semester, M.Sc Microbiology, Mangalore University has satisfactorily completed the project work entitled "PHYSICO-CHEMICAL CHARACTERIZATION OF *RHODOTORULA* ISOLATES FOR LIPID AND EXOPOLYSACCHARIDE PRODUCTION" in partial fulfilment for the award of degree in Master of Science in Microbiology affiliated to Mangalore University, during the academic year 2020-2021. The project work has been approved as it satisfies the academic requirements in respect of the project work prescribed for the M.Sc degree.

Place: Chikka Aluvara

Date: 04.11.2021


-04/11/2021
Signature of the Chairman
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodaga, India

MANGALORE



UNIVERSITY

CERTIFICATE

This is to certify that Ms. SHARANYA. M. G 4th semester, M.Sc Microbiology, Mangalore University has satisfactorily completed the project work entitled "A Comparative Study on the Effect of Probiotic Fermentation and Germination on Antinutritional Factors in *Tamarindus indica* Seeds" in partial fulfilment for the award of degree in Master of Science in Microbiology affiliated to Mangalore University, during the academic year 2020-2021. The project work has been approved as it satisfies the academic requirements in respect of the project work prescribed for the M.Sc degree.

Place: Chikka Aluvara

Date: 06-11-2021

Signature of the Chairman
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

MANGALORE



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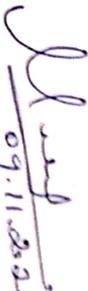
DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.

CERTIFICATE

This is to certify that the dissertation entitled "GREEN SYNTHESIS OF SILVER NANOPARTICLES USING *Eucalyptus citriodora* and THEIR ANTIBACTERIAL PROPERTIES" is bonafide record of the work done by Ms. ^{4th Sem} SAHANA. B. M. This is an authentic record of the research carried out under the guidance and supervision of Dr. B. S. Srinath, Assistant professor, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu.

The work has not been submitted for any other degree of diploma earlier.

Place: Chikka Aluvara
Date: 04-11-2021


04.11.2021
Dr. I. K. MANJULA
(Chairperson)
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

MANGALORE



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CERTIFICATE

This is to certify that Mr. **SACHIN ASHOK MANAKAME** 4th semester, M.Sc Microbiology, Mangalore University has satisfactorily completed the project work entitled “EFFECT OF pH FLUX ON THE PRODUCTION OF SECONDARY METABOLITES BY LACTIC ACID BACTERIAL STRAINS” in partial fulfilment for the award of degree in Master of Science in Microbiology affiliated to Mangalore University, during the academic year 2020-2021. The project work has been approved as it satisfies the academic requirements in respect of the project work prescribed for the M.Sc degree.

Place: Chikka Aluvara

Date: 04-11-2021

Signature of the Chairman
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

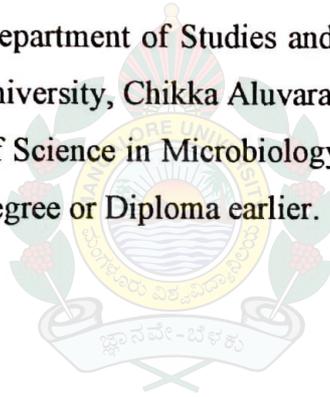

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DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY

JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU

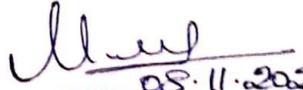
CERTIFICATE

This is to certify that the dissertation entitled “**BIOINSPIRED SYNTHESIS OF SILVER NANOPARTICLE USING MARIGOLD FLOWER EXTRACT AND THEIR ANTIBACTERIAL POTENTIAL**” is an authentic recorded of the research work done by **Ms. RAKSHITHA.N**, 4th semester , year 2021 M.Sc Microbiology, under the guidance of **Dr. I.K MANJULA**, Chairperson, Department of Studies and Research in Microbiology, Jnana Kaveri P.G Centre, Mangalore University, Chikka Aluvara, Kodagu for partial fulfillment for the award of Degree of Master of Science in Microbiology. It is also certified that this work has not been submitted for any Degree or Diploma earlier.



Place: Chikka Aluvara

Date: 08.11.2021


08.11.2021
CHAIRMAN

Department of Microbiology,
Mangalore University Post Graduate Centre,
Chikka Aluvara-571223, Kodagu, India

Mangalore University

Jnana Kaveri P.G Centre,

Chikka Aluvara, Kodagu

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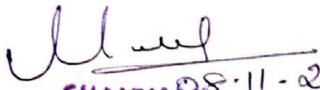
Department of Studies and Research in Microbiology Jnana Kaveri
P.G Centre, Chikka Aluvara, Kodagu

CERTIFICATE

This is to certify that the Thesis entitled "Sunlight driven synthesis of silver nanoparticle using *Tagetes erecta* and their antibacterial potential" is an authentic record of the research work done by Mr. RAJESH R. ^{4th semester, 2021} M.Sc. MICROBIOLOGY under the guidance of Dr. I K MANJULA, CHAIRPERSON, Department of Studies and Research in Microbiology Jnana kaveri P.G Centre, Mangalore University, Chikka Aluvara, Kodagu for the award of Degree of Master of Science in Microbiology .It is also certified that this work has not been submitted for any Degree or Diploma earlier.

Place: Chikka Aluvara

Date: 08.11.2021


CHAIRMAN
CHAIRPERSON
Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara, Kodagu, India

Mangalore University

Jnana Kaveri, P.G Centre,

Chikka Aluvara Kodagu.

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**Department of Studies and Research in Microbiology Jnana Kaveri
P.G Centre, Chikka Aluvara, Kodagu**

CERTIFICATE

This is to certify that the dissertation entitled “**Biosynthesis and Characterization of Silver Nanoparticles from Tuber of *Ipomea batatus* (Sweet Potato) And Their Antibacterial Activity**” is an authentic recorded of the research work done by **Mr. PRASHANTHA**, 4th semester, Year 2021 M.Sc Microbiology under my guidance at Department of Studies and Research in Microbiology, Jnana Kaveri, P.G Centre Chikka Aluvara, Kodagu from July 2021 to September 2021 towards the partial fulfillment for the award of Degree of Master of Science in Microbiology. It is also certified that this work has not previously formed the basis for the Award of any other Degree or Diploma to any other candidate in any other university.

Place: Chikka Aluvara

Date: 08.11.2021


08.11.2021
Dr. I K MANJULA

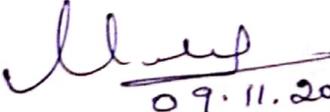
Research Guide

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Department of Studies and Research in Microbiology Jnana Kaveri
P.G Centre, Chikka Aluvara, Kodagu

CERTIFICATE

This is to certify that the Thesis entitled "Biosynthesis and Characterization of Silver Nanoparticles from *Micania micrantha* And Their Antibacterial Activity" is an authentic record of the research work done by Mr. MADHAVAN NAMBOOTHIRI V, , 4th semester, year 2021 M.Sc. Microbiology, under the guidance of Dr. I K MANJULA, CHAIRPERSON, Department of Studies and Research in Microbiology Jnana kaveri P.G Centre, Mangalore University, Chikka Aluvara, Kodagu for the award of Degree of Master of Science in Microbiology .It is also certified that this work has not been submitted for any Degree or Diploma earlier.


09.11.2021
CHAIRPERSON,

Place: Chikka Aluvara

Date: 09.11.2021

Department of Microbiology

Mangalore University

Jnana Kaveri, P.G Centre,

Chikka Aluvara Kodagu.

CHAIRMAN
Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India



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**DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.**

CERTIFICATE

This is to certify that the dissertation entitled “**GREEN SYNTHESIS OF IRON OXIDE NANOPARTICLES BY PLANT *Ocimum tenuiflorum* and THEIR BIOMEDICAL APPLICATIONS AGAINST HUMAN PATHOGENS**” is ^{4th Sem M.Sc., MICROBIOLOGY} a bonafide record of the work done by **Ms. DIVYA. K**. This is an authentic record of the research carried out under the guidance and supervision of **Dr. B. S. Srinath**, Assistant professor, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu.

The work has not been submitted for any other degree or diploma earlier.

Place: Chikka Aluvara

Date: 04/11/2021


09.11.2021
Dr. I. K. MANJULA
(Chairperson)
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India



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DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.

Dr. I. K MANJULA

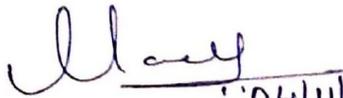
Chairperson

CERTIFICATE

This is to certify that the dissertation entitled "**ISOLATION AND CHARACTERIZATION OF ACTINOMYCETES FROM THE RHIZOSPHERE OF FEW MEDICINAL PLANTS**" is bonafide record of the work done by **Ms. Divya**. This is an authentic record of the research carried out under the guidance and supervision of **Dr. VINU A. K.**, Faculty, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu. *For, towards partial fulfillment for the award of Master of science in Microbiology.*
The results of this project work have not been submitted for any other degree or diploma earlier.

Place: Chikka Aluvara

Date: 04-11-2021


04/11/2021

Dr. I. K MANJULA
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

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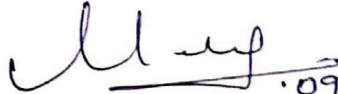
UNIVERSITY

CERTIFICATE

This is to certify that Mr. ASHWIN. M 4th semester, M.Sc Microbiology, Mangalore University has satisfactorily completed the project work entitled **“WHEAT GLUTEN REDUCTION BY PROBIOTIC FERMENTATION AND GERMINATION”** in partial fulfilment for the award of degree in Master of Science in Microbiology affiliated to Mangalore University, during the academic year 2020-2021. The project work has been approved as it satisfies the academic requirements in respect of the project work prescribed for the M.Sc degree.

Place: Chikka Aluvara

Date: 09.11.2021


Signature of the Chairman
CHAIRMAN
Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India



MANGALORE UNIVERSITY

DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.

CERTIFICATE

This is to certify that the dissertation entitled “**Biosynthesis of Silver nanoparticles from endophytic bacteria isolated from medicinal plant (*Catharanthus roseus*) and their Antibacterial activity**” is bonafide record of the work done by **Ms. ARPITHA H G.** ^{4th sem M.Sc., MICROBIOLOGY} This is an authentic record of the research carried out under the guidance and supervision of **Dr. B.S. Srinath**, Assistant professor, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu. The work has not been submitted for any other degree of diploma earlier.

Place: Chikka Aluvara

Date: 4/11/21

04.11.2021

Dr. I. K MANJULA
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India



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**DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.**

Dr. I K MANJULA

Chairperson

CERTIFICATE

This is to certify that the dissertation entitled "**MICROBIAL DECOMPOSITION OF AGROWASTES THROUGH SOLID STATE FERMENTATION**" is bonafide record of the work done by **Ms. ANUSHA S N**. This is an authentic record of the research carried out under the guidance and supervision of **Dr. VINU A. K.**, Faculty, Department of studies and

Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu. *For toward partial fulfilment for the award of Master of science in Microbiology*

The results of this project work have not been submitted for any other degree of diploma earlier.

Place: Chikka Aluvara

Date: *04-11-2021*

Dr. I. K MANJULA
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

MANGALORE

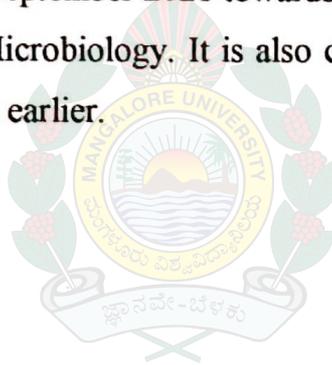


UNIVERSITY

Jnana Kaveri campus, Chikka Aluvara, Kodagu.

CERTIFICATE

This is to certify that the M.Sc., project dissertation entitled "BIOSYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES FROM LEAF EXTRACT OF *M. GUTTIFERAE* (NAGESHWAR) PLANT AND THEIR ANTIBACTERIAL ACTIVITY". Is an authentic record of the research work done by MS ANUSHA M R 4th semester year 2021 M.Sc. Microbiology, under the guidance of Dr. I K MANJULA, CHAIRPERSON, Department of Studies and Research in Microbiology Jnana Kaveri P.G Centre, Mangalore University, Chikka Aluvara, Kodagu from July 2021 to September 2021 towards the partial fulfillment for the award of Degree of Master of Science in Microbiology. It is also certified that this work has not been submitted for any Degree or Diploma earlier.



Place: Chikka Aluvara

Date: 08.11.2021


08.11.2021

CHAIRPERSON,

Department of Microbiology

Mangalore University

Jnana Kaveri, P.G Centre,

Chikka Aluvara, Kodagu

CHAIRMAN

Department of Microbiology

Mangalore University Post Graduate Centre

Chikka Aluvara-571232, Kodagu, India



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DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.

Dr. I. K MANJULA

Chairperson

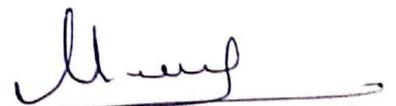
CERTIFICATE

This is to certify that the dissertation entitled "**ANTIFUNGAL ACTIVITY OF MEDICINAL PLANT EXTRACT ON FEW HUMAN DERMATOPHYTIC FUNGI**" is bonafide record of the work done by **Mr. Akshay.V.P.** ^{1st Sem M.Sc. Microbiology} This is an authentic record of the research carried out under the guidance and supervision of **Dr. VINU A. K.**, Faculty, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu.

The results of this project work have not been submitted for any other degree of diploma earlier.

Place: Chikka Aluvara

Date: 09.11.2021


09.11.2021

Dr. I. K MANJULA
CHAIRMAN

Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India

MANGALORE  **UNIVERSITY**

**DEPARTMENT OF STUDIES AND RESEARCH IN MICROBIOLOGY,
JNANA KAVERI P.G. CENTRE, CHIKKA ALUVARA, KODAGU.**

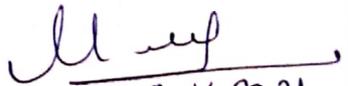
CERTIFICATE

This is to certify that the dissertation entitled “Green synthesis of copper nanoparticles from *Azadiracta indica* and its antimicrobial activity” is bonafide record of the work done by Ms. AAMBAL PRADEEP .M.C. This is an authentic record of the research carried out under the guidance and supervision of ^{Lt Th Scm M.Sc. MICROBIOLOGY} Dr. B.S. Srinath, Assistant professor, Department of studies and Research in Microbiology, Mangalore University, P G Centre, Chikka Aluvara, Kodagu.

The work has not been submitted for any other degree of diploma earlier.

Place: ChikkaAluvara

Date: 04-11-2021


09.11.2021
Dr. I. K. MANJULA

(Chairperson)
CHAIRMAN
Department of Microbiology
Mangalore University Post Graduate Centre
Chikka Aluvara-571232, Kodagu, India