"SCREENING OF BIOLOGICAL ACTIVITY FROM THE EXTRACTS OF TRIDAX PROCUMBENS"



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Muster of Science (M.Sc.) degree in Biotechnology of University of Mysore.

Submitted by

Ms. RAJESHWARI N.J

Reg. No. JBT17018

IV Semester

Under the guidance of

Mr. ABIGNAN GURUKAR MS

Designation

Assistant Professor

PG Department of Studies and Research in Bio-technology

JSS College, Mysore.

"SCREENING OF BIOLOGICAL ACTIVITY FROM THE EXTRACTS OF TRIDAX PROCUMBENS"



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore.

Submitted by

Ms. RAJESHWARI N.J

Reg. No. JBT17018

IV Semester

Under the guidance of

Mr. ABIGNAN GURUKAR MS

Designation

Assistant Professor

PG Department of Studies and Research in Bio-technology

JSS College, Mysore.

QUALITY CONTROL – A MICROBIOLOGICAL PERSPECTIVE

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Ms. RAIHANATH K P

Reg. No. JB117009 II Semester

Under the guidance of

Ms. DIVYA JOHN

Assistant Manager, Richcore Lifesciences Pvt Ltd, Bengaluru

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Cert fied that project report entitled 'QUALITY CONTROL - A MIC ROBIOLOGICAL PERSPECTIVE' is a bonified work carried out by Ms. RAIHANATH K P (Reg.no. JB117009) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India during the year 2018-2019.

GUIDE:

03-2019

Signature of the Guide

Ms. Divya John

Examiners

. 64 0

Place: Mysore

Date

Dr.B.Y. Sattist Killiar

Cats declinator in the SPERTING

* A SHART Professormer Head Professor Professor Philadelphia

Prot. M. Manadevappa

OSK ROSS MYSURY-25 s

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Standardizing Ligation Independent Cloning method for recombinant antibody production' is a bona fide work carried out by Ms. Ketaki Vivek Yelgaonkar (Reg.no. JBI18009) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Bistechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. «Karnataka & DBT, Govt, of India.

CUIDE:

Carmelita Nora Marbaniang, PhD

Scientist-III

Thermofisher Scientific

Date: 12/10/2019

Dr. B.Y. Sathish Kumar

R.Y. CAL

Co-ordinator, JSS BiSEP

Assistant Professor and Head,

PG Dept. of Bio-Technology

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

ANTIOXIDANT AND ANTIMICROBIAL PYRROLO[1,2a]QUINOLINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr.SACHIN T.Y

Reg. No. JBT17019

IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Descritor

J55 Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'ANTIOXIDANT AND ANTIMICROBIAL PYRROLO[1,2-a]QUINOLINE DERIVATIVES' is a bonified work carried out by Mr.SACHIN T.Y (Reg.no. JBT17019) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar Assistant Professor and Hea

Postgraduate Department of Bio-Tochaglog

R Children - White- I Jak

Examiners:

1. 1/2 Jamo/1/5/17

Place: Mysore

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25,

Principal
J. S. S. COLLEGE
Ooty Road, Mysore 570 023

BIOLOGICAL EVALUATION OF GUANINE ANALOGUES



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. MADHU B

Reg. No. JBT17012

IV Semester

Under the guidance of

Dr. Rekha N.D. M.Sc., Ph. D.

Assistant professor

PG Department of Biotechnology

May-2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Biological evaluation of guanine analogues' is a bonified work carried out by Ms. MADHU B (Reg.no. JBT17012) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree is Biotechnology of University of Mysore during the year 2018-19.

GUIDE: Remp 100

Dr.Rekha N.D.

M. Sc., ph. D.

Assistant professor

PG Department of Biotechnology

Examiners:

1. 6

2. Rolling M.D

Place: Mysore

Date 6/5/2019

Dr. B. Y. Sathish Kumar

Assistant Profestor Mad Pend

Postgraduate Department of Base Felenhology

A & Cullege of Arts, Commorce & Science

Onto non Meaner S' 11 924

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Principal

J. S. S. COLLEGE

Octy Road, Mysore-570 025

PHYTOCHEMICAL ANALYSIS OF METHANOLIC LEAVES EXTRACT IF GREWIA FLAVESCENS AND THEIR BIOLOGICAL ACTIVITY



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

SANDHYA KUMARI YADAV

Reg. No. JBT17022

IV Semester Under the guidance of

Dr. Rekha N.D. M. Sc., Ph. D.

ASSISTANT PROFESSOR

PG DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSORE-570025

MAY-2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'PHYTOCHEMICAL ANALYSIS OF METHANOLIC LEAVES EXTRACT OF GREWIA FLAVESCENS AND THEIR BIOLOGICAL ACTIVITY' is a bonified work carried out by SANDHYA KUMARI YADAV (Reg.no. JBT17022) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-2019

Dr.Rekha N.D. M.sc., Ph.D Assistant professor Department of Bio-Technology Dr. B. Y. Sathish Kumar Assistant Professor and Head ostgraduate Department of Bio Technolo

Opts Gees, Mysons 9 0 025

Examiners:

1.

Barrie 20.0

Place: Mysore

Date: 6 5 2019

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

STUDY OF ANTIOXIDANT AND ANTIMICROBIAL ACTIVITIES OF PYRROLO[1,2-a]QUINOLINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr.HARSHA B.S

Reg. No. JBT17010

IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Designation.

JSS Mahayldyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'STUDY OF ANTIOXIDANT AND ANTIMICROBIAL ACTIVITIES OF PYRROLO[1,2-a]QUINOLINE DERIVATIVES' is a bonified work carried out by Mr.HARSHA B.S (Reg. JBT17010) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-19.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Assistma Professor and Hehd

Postgraduate Department of Discourse Parknology

& B Dellege of Arts, Committee & Science

Outs Cook Mysor= 510 025

Examiners:

I.

2.

Place: Mysuru

Prot. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Principal

J. S. S. COLLEGE

Ooty Road, Mysore-570 028

Clinical Trial To Assess The Safety And Efficacy Of Sensitive Baby Wipes On The Skin Of The Baby



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Shruthi M G

Reg. No: JBT17031

IV Semester

Under the guidance of

Dr. B.V. Sathish Kumar

Head of the Department

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

DOTY ROAD, MYSORE -570025



CERTIFICATE

ertified that project report entitled 'Clinical Trial To Assess The Safety And Efficacy Of sensitive Baby Wipes On The Skin Of The Baby' is a benified work carried out by Shruthi M.G (Reg.no. JBT17031) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 -2019.

GUIDE:

1. Sonika G

Director, Clinical Operations Zetalix solutions

2. Dr. B. V. Sathish Kumar

Dr. B. Y. Sathish Kumar

14. A. Le

Assistant Professor and Head

Postgraduate Department of 1518- Pechnology

Quey Good, Mysons 119 925

Examiners:

lahadevappu Principal, JSSCACS

Ooty road, Mysore - 25. PRINCIPAL

USS College of Arts, Communice & Science Doly Road, MYSURU-25

BIOLOGICAL EVALUATION OF PYRROLO |1,2-a|QUINOLINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr.ABHISHEK S.R

Reg. No. JBT17001

IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Designation

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE-570025



Certified that project report entitled 'BIOLOGICAL EVALUATION OF PYRROLO[1,2-a]QUINOLINE DERIVATIVES' is a bonified work carried out by Mr.ABHISHEK S.R (Reg.no. JBT17001) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Assistant Professorand/Head

Postgraduate Department of Biocherhnology

& & College of Arts, Commarce & Science

Outy Jose, Mysore 518 925

Examiners:

L

740

Place: Mysuru

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Principal

J. S. S. COLLEGE

Onto Road, Mysore 570 020

STUDY ON RECOMBINANT PROTEIN PURIFICATION FROM E.coli

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programmer (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

ASWINI T M

Reg. No. JB1170061

II SEMESTER

Under the guidance of

MR.ANANDHAN.M

SENIOR RESEARCH SCIENTIST,
RICHCORE LIFESCIENCES PVT.LTD,
BOMMASANDRA -JIGANI LINK ROAD,
K.J.A.D.B INDUSTRAIAL AREA, BENGALURU.
SEPTEMBER 2019

September-2019

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE-570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Carrified that project report entitled is a bonafide work carried out by ASWINI T M in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka&DBT, Govt. of India.

GUIDE: M. Keny

Signature of the Guide

Mr. Anandhan M,

Senior Research Scientist, Richcore Life sciences PVT.LTD, Bommasnadru-Jigani Link Road, Bengalura - 560105. (J.Y. Sathish Kumar

Dr. B.Y. Sathish Kumar Co-ordination, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

Examiners:

. / /

2.0

Place: Mysore

Date: 12 10 19

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Functional Screening and Validation of rabbit recombinant antibodies

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Mr. Mahesh Halabhavi

Reg. No. JB118004

II Semester

Under the guidance of

Mr/Dr. Ketkar, Alhad A

Scientist-III, Thermo Fisher Scientific Second Floor, First Technology Place, 3EPIP, Whitefield, Bengaluru, Karnataka 560066

September-2019

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE - 570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE -

Certified that project report entitled 'Functional Screening and Validation of publit recombinant antibodies' isabonafied work carried out by Mr. Mahesh Balabhavi (Reg.no. JBI18004) in partial fulfillment of the requirements for the gward of the degree of Postgraduate Diploma in Protein Expression and Scale-upunder Biotechnology Skill Enhancement Programmes anctioned and supported by KTech, Govt. of Karnataka&DBT, Govt. of India.

GUIDE:

Make

Mr/Dr. Ketkar, Alhad A

Scientist-III, Thermo Fisher Scientific

Examiners:

2 B. Y. SAL X

Page: Mysore

Dute: 12 10 19

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

Prof. M.Mahadevappa Principal, JSSCACS Ooty road, Mysore - 25.

INVESTIGATION OF BIOLOGICAL ACTIVITIES FROM THE METHANOLIC EXTRACTS OF MORUS ALBA LEAVES



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

NANDINI K R

Reg. No. JBT17015

IV Semester

Under the guidance of

Mr. ABIGNAN GURUKAR M S

ASSISTANT PROFESSOR
PG DEPARTMENT OF BIOTECHNOLOGY
JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE
OOTY ROAD, MYSORE-570025
MAY-2019

JSS Mahavidyapertha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'INVESTIGATION OF BIOLOGICAL ACTIVITIES FROM THE METHANOLIC EXTRACT OF MORUS ALBA LEAVES' is a bonified work carried out by NANDINI K R (Reg.no. JBT17015) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-2019

guide Missignon Cumker

Mr. ABIGNAN GURUKAR M S

Assistant Professor

Department of Biotechnology

Dr. B. Y. Sathish Kumar Assistant Profession and Head

Postgradua #1 Departalche of Bib-Pechnology

Buty Road, Mysorn 510 025

Examiners:

10

.

Place: Mysore

Date:

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty food, Mysure -25

CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICACY OF A DERIVATIVE OF D-GLUCOPYRANOSIDE IN PATIENTS WITH TYPE-II DIABETES MELLITUS

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of Master of Science
(M.Sc.) degree in Biotechnology of University of Mysore



Submitted by

PRANATHI HUBLI

Reg. No. JBT17017 IV Semester

Under the guidance of

DR. B. Y. SATHISH KUMAR

Head of Postgraduate Department Bio-Technology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE -570025

JSS Mahavidyapeetha COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE -570025

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
PG DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that project report entitled 'CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICAC OF DERIVATIVE OF D-GLUCOPYRANOSIDE IN SUBJECTS WITH TYPE-II DIABETES MELLITUS.' is a bonified work carried out by Ms. PRANATHI HUBLI. (Reg.no. JBT17017) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018–19.

GUIDE:

- Mrs. Sonika Handae Zetalix solutions
- 2. Dr. B. Y. Sathish Kumar Head Postgraduate Department Bio-Technology

Signature of the Guide

Examiners:

1. dolu. F. 1.

Pince: Mysore Date: 6 | 5 | 9 Dr. B. Y. Sathish Kumar Head Postgraduate Department

& Cullege of Arts, Commarce & Science

Prof. M. Mahadevappa

Principal, JSSCACS Ooty road, Mysore - 25.

J-S-S- COLLEGE

Octy Road, Mysore-570 025

Protein Quantitation Using Various Modes of High Performance Liquid Chromatography

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Mr Kiran Muchadi

Reg. No. JB117003

II Semester

Under the guidance of

Dr. Nandakumar Sundaramoorthy Senior Scientist, Stelis Bio Pharma, Jigani Link Road Bangalore

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

certified that project report entitled "Protein Quantitation using various modes of High Performance Liquid Chromatography" of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India during the year 2018-2019.

GUIDE:

Dr. Nandakumar Sendaramoothy

Senior Scientist, St. S. Biopharma Pvt

Ltd, Bangalore

Examiners:

1. C. K. Xlewyllt

Place: Mysore

Date 1 8/3/2=19

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BIFS

Assistant Professor and Head.

PG Dept of Bio-Technology

rof. M. Mahadevappa

Principal, JSSCACS

Octy road, Mysore - 25.

PRINCIPAL

S College of Arts. Commerce & Science

Goty Road, MYSURU-25

CLINICAL STUDY TO EVALUATE SAFTEY ANDEFFICACY OF A DERIVATIVE OF b-D GLUCOPYRONOSIDE IN PATIENTS WITH TYPE-II DIABETES MELLITUS

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SAMYAMI DP

Reg. No. JBT17021

IV Semester

Under the guidance of

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-Technology

JSS Mahavidyapoetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



Certified that project report entitled 'CLINICAL STUDY TO EVALUATE
SAFTEY AND EFFICAC OF A DERIVATIVE OF b-D
GLUCOPYRONOSIDE IN PATIENTS WITH TYPE-II DIABETES

MELLITUS.' is a bonified work carried out by Ms. SAMYAMI D.P. (Reg.no. JBT17021) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year

2018-19.

GUIDE: Sonika Handae Zetalix solutions

Dr. B. Y. Sathish Kumar
Assistant Professor and Head
Postgraduate Department of Bio-Technology
Name & Signature of the Guide

Examiners:

2. B. 4. Shife

Place: Mysore

Date:

Dr. B. V. Sathish Kumar Assistant Professor and High Postgraduate Department of Bio-1 schoology

Daty and Mesons , 0 025

Prof. M. Mahadevappa Principal, JSSCACS

Ooty road, Mysore - 25.

J. S. S. COLLEGE Ooty Road, Mysore-570 028

SiRNA optimization for antibody validation

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by,

Pragnyashree M.S

Reg. No. JBI18007

II Semester

Under the guidance of

Dr. Vidhipuri

Scientist III, Protein biology

Thermo Fisher Scientific

First technology place, 3EPIP, Whitefield, Bengaluru,

Karnataka 560066

October - 2019

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'siRNA Optimization for Antibody Validation' isabonafied work carried out by Ms. Pragnyashree M.S (JBH8007) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-upunder Biotechnology Skill Enhancement Programmesanctioned and supported by KTech, Govt. of Karnataka&DBT, Govt. of India.

GUIDE:

flai wholis

Dr. Vidhipuri

Examiners;

.0.

Place: Mysore

Date: 12 10 19

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

Prof. M.Mahadevappa

Principal, JSSCACS Ooty road, Mysore - 25.

CLINICAL STUDY TO EVALUATE SAFTEY ANDEFFICACY OF A DERIVATIVE OF b-D GLUCOPYRONOSIDE IN PATIENTS WITH TYPE-II DIABETES MELLITUS

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SAMYAMI DP

Reg. No. JBT17021

IV Semester

Under the guidance of

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



Certified that project report entitled 'CLINICAL STUDY TO EVALUATE
SAFTEY AND EFFICAC OF A DERIVATIVE OF b-D
GLUCOPYRONOSIDE IN PATIENTS WITH TYPE-II DIABETES

MELLITUS.' is a bonified work carried out by Ms. SAMYAMI D.P. (Reg.no. JBT17021) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018–19.

GUIDE: Sonika Handae Zetalix solutions

Dr. B. Y. Sathish Kumar Assistant Professor and Head Postgraduate Department of Bio-Technology Name & Signature of the Guide

Examiners:

1. don F.F.

2.

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar Assistant Photesion and Flead Postgraduate Departhent of Biograduate Departhent of Biographics & Science

Outy now Mapore \$10.025

Prof. M. Mahadevappa Principal, JSSCACS

Ooty road, Mysore - 25.

J-S-S-COLLEGE Outy Rand, Mysors-870 025

Clinical Trial To Assess The Safety And Efficacy Of Extra Moisturizing Baby Wipes On The Skin Of The Baby



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Harshitha.P.T

Reg. No: JBT17011

IV Semester

Under the guidance of

Dr. B.Y. Sathish Kumar

Head of the Department

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

rtified that project report entitled 'Clinical Trial To Assess The Safety And Efficacy Of tra Moisturizing Baby Wipes On The Skin Of The Baby' is a benified work carried out Harshitha, P.T (Reg.no. JBT17011) in partial fulfilment of the requirements for the award Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the car 2018 – 2019.

GUIDE:

1. Sonika G

Director, Clinical Operations, Zetalix solutions

2. Dr. B. Y. Sathish Kumar

Dr. B. Y. Sathish Kumar

Postgraduale Department of Big Technology

Outs ileas, Mysers 510 025

Examiners:

1. doen. K.1

2.

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

JSS Callege of Arts, Commerce & Science
Octy Road, MYSURU-25

Biological evaluation of Nyctanthes arbortristis



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms.Suraksha B.K Reg. No. JBT17032 IV Semester

Under the guidance of

ABHIGNAN Gurukar, M.Sc., Assistant professor PG Department of Biotechnology May-2019

Jss Mahavidyapeeta

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

ified that project report entitled 'Biological evaluation of Nyctanthes arbortristis' is abonified a carried out by Ms.Suraksha B.K(Reg.no.JBT17032) in partial fulfillment of the requirements he award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during car 2018-19.

Abhignan Gurukar

M. Sc.,

Assistant professor

PG Department of Biotechnology

Dr. B. Y. Sathish Kumar Assistant Prefetted Continued

Postgraduate Debut ment of Ethe Pathnology

& E Cultege of Arts, Commarce & Science

Onty non Mysory 7 0 925

Place: Mysore

Date

M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Principel

J. S. S. COLLEGE

Octy Road, Mysore-570 023

BIOLOGICAL EVALUATION OF INDOLIZINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of
Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms.VARSHITHA P.J

Reg. No. JBT17033 IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Designation

May - 2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'BIOLOGICAL EVALUATION OF INDOLIZINE DERIVATIVES' is a bonified work carried out by Ms.VARSHITHA P.J. (Reg.no...JBT17033) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar Assistant Professoriant block Postgraduate Department inf Blockinghnology 1 & 8 Corress of N. S. Commune & Science

Buty has Myser: 10 125

Examiners:

1. Jeonfung/1/2/17

2.

Place: Mysuru

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

J. S. S. COLLEGE Octy Road, Mysors-570 028

2

Clinical Trial To Assess The Safety And Efficacy Of Sensitive Baby Wipes On The Skin Of The Baby



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Shruthi M G

Reg. No: JBT17031

IV Semester

Under the guidance of

Dr. B.Y. Sathish Kumar

Head of the Department

May - 2019

JSS Mahavidyspeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

certified that project report entitled 'Clinical Trial To Assess The Safety And Efficacy Of Sensitive Baby Wipes On The Skin Of The Baby' is a benified work carried out by Shruthi M.G (Reg.no. JBT17031) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 2019.

GUIDE:

1. Sonika G

Director, Clinical Operations

Zetalix solutions

2. Dr. B. Y. Sathish Kumar

Examiners:

1.deen K.F.

Dr. B. Y. Sathish Kumar
Assistant Protessor and Head
Postgraduate Department of Bio-1 echnolog

Postgraduate College of Arts, Commorce & Science

Onty fined, Mysers 5:8 925

Prot. M. Mahadevappa Principal, JSSCACS

Octy road, Mysore - 25.

PRINCIPAL

JSS College of Arts. Connection & Science
Octy Road, MYSURU-25

Clinical Research Study to Evaluate the Effect of AMR101 on Cardiovascular Health and Mortality in Hypertriglyceridemic Patients with High Risk for Cardiovascular Disease

Project Report

Submitted to the

Postgraduate Department of Biotechnology



JSS College of Arts, Commerce and Science
In partial fulfillment of the requirements for the award of
Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Divya H.D Reg. NO: JBT17007 (IV Semester)

Under the guidance of

Dr. B.Y Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

JSS college of Arts, Commerce and Science

Ooty road – Mysore

May – 2019

JSS Mahavidyspeeths

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Clinical Research Study to Evaluate the Effect of AMR101 on Cardiovascular Health and Mortality in Hypertriglyceridemic Patients with High Risk for Cardiovascular Disease' is a bonified work carried out by Ms. Divya H.D (Reg.no. JBT17007) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 2019.

GUIDE:

DE: Kanya KN

1. Mrs. Ramya K.N

Clinical research coordinator Columbia Asia hospital Mysore

2. Dr. B.Y Sathish Kumar

Examiners:

i.doen. F.X

2.

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Postgradude department of the Technology

ISS sollege of Arts) Commerce and Science

dan and Mysore

Prof. M. Mahadevapps

Principal, JSSCACS

Ooty mad, Mysore - 25.

J.S.S. College

Outy Road, Mysore-570 025

A Clinical study to evaluate the efficiency and safety of Investigational product Cognique in improving normal cognitive function in Healthy Volunteers.

Project Report

Submitted to the

Postgradunte Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Disha. S

Reg. No. JBT17006 IV Semester

Under the guidance of

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-Technology

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'A CLINICAL STUDY TO EVALUATE THE EFFICIENCY AND SAFETY OF INVESTIGATIONAL PRODUCT CO NIQUE IN IMPROVING NORMAL COGNITIVE FUNCTION IN HE, THY VOLUNTEERS' is a bonified work carried out by Ms. Disha, S (Re . 10. JBT17006) in partial fulfillment of the requirements for the award of Ma r of Science (M.Sc.) degree in Biotechnology of University of Mysore dui 12 the year 2018 – 19.

GUIDE:

Mrs.Sonika Handae

Accelare Institute of Clinical

Research

Dr. B. Y. Sathish Kumar

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-Technology

Examiners:

1.que

2.

Place: Mysore Date: 6/5/19 Prof. M. Mahadevappa

Principal, JSSCACS
Ooty prad Mysore - 25

J.S.S. College

Ooty Road, Mysore-570 025

Clinical research to evaluate the effect of Canagliflogin on Renal and Cardiovascular Outcomes in subjects with Type2 Diabetes Mellitusand Diabetic Nephropathy



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

GREESHMA BHAT

Reg. No. JBT17009

IV Semester

Under the guidance of

Dr. Sathish kumar M. Sc., Ph. D.

ASSISTANT PROFESSOR AND HEAD

PG DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSORE-570025

MAY-2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

fied that project report entitled 'Clinical Research to Evaluate the Effects of Canagliflozin enal and Cardiovascular Outcomes in Subjects With Type 2 Diabetes Melitus and Diabetic propathy is a bonified work carried out by Ms.Greeshma Bhat (Reg.no. JBT17009) in al fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in echnology of University of Mysore during the year 2018 - 19.

GUIDE:

1.Ramva K.N.

Clinical research coordinator,

Columbia Asia Hospital, Mysore.

Signature: Kanya KN

2.Dr.B.Y. Sathish Kumar

Signature:

Examiners:

Dy. K.E

2.

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL J.S.S. College Only Road, Myzere-570 025

Clinical study for evaluation of mildness and gentleness of the Baby Laundry Wash on the skin and clothes of the baby and the mother

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SAGARIKA I P

Reg. No. JBT17020 IV Semester

Under the guidance of

Dr. B.Y. SATHISH KUMAR

Head of the department

May - 2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Clinical study for evaluation of mildness and gratieness of the Baby Laundry Wash on the skin and clothes of the baby and the other' is a bonified work carried out by Ms. Sagarika.I.P. (Reg.no. JBT17020) partial fulfillment of the requirements for the award of Master of Science (M.Sc.) egree in Biotechnology of University of Mysore during the year 2018 - 19.

GUIDE:

Mrs. Sonika Handae Accelare Institute of Clinical Research Dr. B.Y. Sathish Kumar

Signature of the guide

Examiners:

Dey. F.F

2.

Place: Mysore

Dute:

Dr. B. V. Sathish Kumar Assistant Professorand-Head Postgraduate Department Rion Sechnology

\$ 5 Deliege of Arts, Commarte & Science

Moty cook, Mysora 510 025

M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PROVERSE J.S.S. College

Only Rood, Mysore-570 025

"Cloning and Expression of Recombinant Protein in Pichia pastoris"

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in "PROTEIN EXPRESSION AND SCALE-UP" under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE –570025

Submitted by

Ms.H.R.GNANAVI

Reg. No. JB117002 II Semester

Under the guidance of

Mr. Sanjay Kumar Hirasker

Research Scientist Richcore Lifesciences Pvt. Ltd.

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "Cloning and Expression of Recombinant Protein in Pichia pastoris" is a bonafide work carried out by Ms H.R.GNANAVI in partial fulfillment of the requirements for the award of the degree of "Postgraduate Diploma in Protein Expression and Scale-up" under "Biotechnology Skill Enhancement Programme" sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India during the year 2018-2019

GUIDE:

Signature

Mr. Sanjay Kumar Hiraske

Dr. B.Y. Sathish Kumar

. Assistant Professor and Head,

PG Dept. of Pho-Technologiciones buty Hose, Mysore 570 028

Place: Mysore

Date: 18/37 2019

Prot. M. Mahadevappa

SS Principal Sylvania Science

Ochoyolar Myske 25

Separation of Proteins by Consecutive Sodium Dodecyl Sulfate (SDS)-Polyacrylamide Gel Electrophoresis and High Performance Liquid Chromatography

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Mr. Praveen N M

Reg. No. JBI17007

II Semester

Under the guidance of

Dr. NANDAKUMAR SUNDARAMOORTHY

Senior Scientis, Stelis Bio Pharma, Jigani Link Road Bangalore

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

I certified that project report entitled "Separation of Proteins by Consecutive Sodium

Dod : I Sulfate (SDS)-Polyacrylamide Gel Electrophoresis and High Performance Liquid

Chr : atography" is a bonified work carried out by Mr. Praveen N M (Reg.No. JBI17007)

in p that fulfillment of the requirements for the award of the degree of Postgraduate

Dip its in Protein Expression and Scale-up under Biotechnology Skill Enhancement

Pro imme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of

Ind., during the year 2018-2019.

GUIDE:

Dr. Nandakumar Sociaramoorth

Senior Scientist, Stola Riopharma Pvt

Ltd, Bangalore

Examiners

1. (4 . 000

2. R.y. Sarite

Place: Mysore

Date:

Read of the Oceaniment

Dr. Bev. Sathish Kumarogy

. Co-bedigator, JSS GHTS: a Science

Assistant Professorend Head,*** PG Dept. of Bio-Technology

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25. PRINCIPAL

JSS College of Arts. Commerce & Science Crofy Road, MYSURU-25

CLONING AND EXPRESSION OF RECOMBINANT PROTEIN IGN IN E.coli

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

MS. ANJU SHARMA Reg.No. JBI 17001

II Semester

Under the guidance of

Mr. BALU.P

Scientist, Richcore lifesciences, Jigani Link Road, Bangalore

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



ISS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

1 cer | "ed that project report entitled "CLONING AND EXPRESSION OF RECOMBINANT EIN IGN IN E.coli" is a bonafide work carried out by MS. ANJU SHARMA (Reg.No. 101) in partial fulfillment of the requirements for the award of the degree of Postgraduate JBI in Protein Expression and Scale-up under Biotechnology Skill Enhancement Pro . nme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India dur the year 2018-2019.

GU E:

15-03-2019

Scientist, Richcori

Jigani Link Road

Bangalore

Examiners

Place: Mysore

Date 18/3/2010

Dr. Briti Sathish Kumar

os Corcodifinter ISS BT

R.Y. SAL

Assistant Professor and Head,

PG Dept. of Bio-Technology

Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL olege of Arts, Commerce & Science Only Road, MYSURU-25

Laundry Detergent Science and Enzyme Applications in Cleaning Products

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Ms MANASA S

Reg. No. JBI17005 II Semester

Under the guidance of Mrs RASHMI SRIKANTH Team Lead Technical Services HHC Novozymes, Bangalore.

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme

Postgraduate Department of Biotechnology

CERTIFICATE

I certified that project report entitled "Laundry Detergent Science and Enzyme Applications in Cleaning Products" is a bonified work carried out by Ms. Manasa S (Reg. No. JBI17005) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnutaka & DBT, Govt. of India during the year 2018-2019.

GUIDE:

Mrs. Rashmi Srika

Team Lead, Technical Service HHC.

Novozymes, Bangalore.

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BTFS and

Assistant Professor and Head,

PG Dept. of Bio-Technology & Science

. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL JSS College of Arts. Commerce & Science Coly Road, MYSURU-25

Clinical Trial To Assess The Safety And Efficacy Of Extra Moisturizing Baby Wipes On The Skin Of The Baby



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Harshitha, P.T

Reg. No: JBT17011

IV Semester

Under the guidance of

Dr. B.Y. Sathish Kumar

Head of the Department

May - 2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Clinical Trial To Assess The Safety And Efficacy Of Extra Moisturizing Baby Wipes On The Skin Of The Baby' is a benified work carried out by Harshitha.P.T (Reg.no. JBT17011) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 2019.

GUIDE:

1. Sonika G

Director, Clinical Operations, Zetalix solutions

2. Dr. B. Y. Sathish Kumar

Dr. B. Y. Sathish Kumar Assistant Professor and Flead

Postgradual Beplanne 18 18 Connector & Science of Arts, Commerce & Science

Outy Hoad, Mysore 570 926

Examiners:

2. 1. 7. chile.

Prof. M. Mahadevappa Principal, JSSCACS

Ooty road, Mysore - 25.

aSS College of Arts, Commerce & Science Ooty Road, MYSURU-25

Recombinant Protein Purification Derived From Pichia pastoris

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biótechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Ms. KOUNAIN FATHIMA

Reg. No. JBI17004 II Semester

Under the guidance of

Mr. ANANDHAN, M

Sr. Scientist

Richcore Lifesciences Pvt. Ltd.

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE - 570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'recombinant protein 'Protein Purification Derived From Picia pasteris' is a bouified work carried out by Ma. KOUNAIN FATHIMA (Reg.no. JBI17004) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India during the year 2018-2019.

CHIDE:

M. Hustos 19

Signature of the Guide

Mr. Anandhan . M

Examiners:

1 (-1. Xamillo

2. Porlano

Place: Mysore

Date: 18/2/2017

B.y. Shite

Dr. B.Y. Sathish Kumar Class distribution, USS BTFS Assisting Professor and Head,

Dept. of Bit-Technology

Prof. M. Mahadevappa

Ogew road: Mysore - 25.

INVESTIGATION INTO THE MULTIPLE BIOLOGICAL ACTIVITIES FROM HEXANE EXTRACT OF EPIPHYLLUM OXYPETALUM



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

SHARATH KP

Reg. No. JBT17026

IV Semester

Under the guidance of

Dr. Rekha N.D. M. Sc., Ph. D.

ASSISTANT PROFESSOR
PG DEPARTMENT OF BIOTECHNOLOGY
JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE
OOTY ROAD, MYSORE-570025

MAY-2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE-570025



CERTIFICATE

Certified that project report entitled 'INVESTIGATION INTO THE MULTIPLE BIOLOGICAL ACTIVITIES FROM THE HEXANE EXTRACT OF EPIPHYLLUM OXYPETALUM is a bonafide work carried out by SHARATH K P

(Reg.no. JBT17026) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-2019

Dr.Rekhn N.D. M.sc., Ph.D Assistant Professor

Department of Bio-Technology

Examiners:

1. gendend Alafin

Place: Mysore Date: 6\5\2019

AssistantaForothushepurtebeead Postgraduate Departure Rich Biologichnology # & College of 4/15, Commutes & Science

Outy rines Mesore 510 025

Wahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL JSS Categor of Arts, Commerce & Science Doby Road, MYSURU-25 Isolation, identification and characterization of secondary metabolites producing endophytic bacteria from mulberry bark

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. CHINTHANA.S

JBT18006

IV Semester

Under the guidance of

1. Dr. MADHUSUDHAN, K. N

Scientist-D

Bivoltine Breeding Lab, CSRTI, CBS, Mysore,

2. Dr. B. Y. SATHISH KUMAR

Assistant professor and head postgraduate department of Bio-technology,

JSS college of arts, commerce & science, Ooty road, Mysore.

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "Isolation, identification and characterization of secondary metabolites producing endophytic bacteria from mulberry bark" is a bonified work carried out by Ms. CHINTHANA S (Reg. no. JBT18006) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2020.

GUIDE: Dr. Madhusudhan, K. N

Dr. B. Y. Sathish Kumar J. Y. SA

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Rio Technology

PG Dopt of Rinte zoulogy

Fig Dept of A.ta, Lummerce & Science

Boty Rend, Mysors-570 025

Examipers:

2. Rolling of 1

Prof. H.C. HONNAPPA

Principal, JSSCACS

Outy road Mysage - 25.

USS College of Arts, Currence & Science Only Road, MYSURU-25

Biochemical Characterization of Bismuth Vanadate (BiVO₄) and Zirconium Phosphate (ZrP) Nanoparticles



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

ster of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. NAGASHREE H.J

Reg. No.JBT17014

IV Semester, M.Sc., Bio-Technology Under the guidance of

Mr. VASANTH PATIL H.B

M.Sc., BTFS, KSET

Assistant Professor
PG Department Of Biotechnology
JSS College of Arts, Commerce and Science, Ooty Road, Mysuru-570025
MAY-2019

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



that project report entitled Biochemical Characterization of Bismuth Cert (BiVO4) and Zirconium Phosphate (ZrP) Nanoparticles' is a bonafide Vel ed out by Ms. NAGASHREE H.J(Reg.no.JBT17014) in partial fulfillment of the work requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-2019

GUIDE:

Mr. Vasanth Patil H.B.

Assistant Professor

PG Department of Bio-Technology

Examiners:

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgradum Department of Biog Tschnology

Outy Road, Mysoro 510 925

lahadevappa

Principal, JSSCACS

Ooty road, Mysere 425 JSS College of Arts. US URU-25 Only Road, MYSURU-25

STUDY ON RECOMBINANT PROTEIN PURIFICATION FROM Pichia pastoris

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post

Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under

Biotechnology Skill Enhancement Programmer (BiSEP)

TO

Postgraduate Department of Biotechnology



J S COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

PAVITHRA.P

Reg. No. JBI18006

II SEMESTER

Under the guidance of

MR.ANANDHAN.M

SENIOR RESEARCH SCIENTIST, RICHCORE LIPESCIENCES PVT.LTD, BOMMASANDRA -JIGANI LINK ROAD, K.LA.D.B INDUSTRAIAL AREA, HENGALURU.

SEPTEMBER-2019

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled is a bonafide work carried out by pAVITHRA.P in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka&DRT, Govt. of India.

GUIDE: M. Wind

Mr.Anandhan M,

Senior Research Scientist, Richcore Life sciences PVT.LTD, Bommasnadra-Jigani Link Road, Bengaluru - 560105. Dr. B.Y. Sathish Kumar Co-ordination, JSS BiSEP

Assistant Professor and Head, PG Dept. of Bio-Technology

Examiners:

. / .

2114

Place: Mysore

Date: 12-10-19

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Primary Screening In Abfinity Process And Depletion As POC For Process Improvement

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



SS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Ms. Manisha Thakur Reg.no JBI18005

Under the guidance of

Ms. Darshana Raghavan
Scientist-II,
ThermoFisher Scientific, Bengaluru

September - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology CERTIFICATE

Certified that project report entitled "Primary Screening in Abfinity Process and Depletion as POC for Process Improvement" is a bonafied work carried out by Ms. Manisha Thakur (Reg no JBI18005) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Still Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

GUIDE: Thertona

DARSHANA RAGH

Examiners:

1. C. C. Saunter

Place: Mysore Date: 12 oct | 2019 Dr. B.Y. Sathish Kumar Co-ordinator, JSS BiSEP

Assistant Professor and Head, PG Dept. of Bio-Technology

Prof. M. Mahadevappa

Principal, JSSCACS Ooty road, Mysore - 25.

Edible Coating for Seasonal Fruit: Herbal extract reinforced biopolymer for Shelf Life Extension



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. D. SARANYA

Reg. No.JBT17023

IV Semester, M.Sc., Bio-Technology

Under the guidance of

Mr. VASANTH PATIL H.B

M.Sc., BTFS, KSET

Assistant Professor
PG Department Of Biotechnology
JSS College of Arts, Commerce and Science, Ooty Road, Mysuru-570025
MAY-2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled Edible Coating for Seasonal Fruit: Herbal extract reinforced biopolymer for Shelf Life Extension' is a bonafide work carried out byMs.D SARANYA(Reg.no.3BT17023) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018-2019

Mr. Vasanth Patil H.B

Assistant Professor

PG Department of Bio-Technology

Examiners:

1. Marshmonishing

Place: Mysore

Date 6-5-19

Dr. B. Y. Sathish Kumar

Assistant Professor and Hend

Postgraduate Department of Bio-Feehnology

1 & S. Comnet of Orto, Commerce & Science

duty see Mygas

rof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore . 25.

JSS College of Arts. Commerce & Science Cody Road, MV SURU-25

Clinical study for evaluation of mildness and gentleness of the Baby Laundry Wash on the skin and clothes of the baby and the mother

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SAGARIKA I P

Reg. No. JBT17020 IV Semester

Under the guidance of

Dr. B.Y. SATHISH KUMAR

Head of the department

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



Certified that project report entitled 'Clinical study for evaluation of mildness and gentleness of the Baby Laundry Wash on the skin and clothes of the baby and the mother' is a bonified work carried out by Ms. Sagarika.I.P. (Reg.no. JBT17020) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE:

Mrs. Sonika Handae Accelare Institute of Clinical Research Dr. B.V. Sathish Kumar

Dr. B. Y. Sathish Kumay:

Postgraduate Department of Bio-Technology

Outy Hose, Mysers 570 825

Signature of the guide

Examiners:

2 By Shife

Place: Mysore

Date:

Prof. M. Mahadevappa Principal, JSSCACS

Octy road, Mysore - 25.

J.S.S. College Coty North Mysere-570 025

LARGE SCALE PURIFICATION OF MONOCLONAL ANTIBODIES

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Ms. Durga Venugopal

Reg. No. JBI19001

II Semester

Under the guidance of

Mr. Sudarshan Reddy

Sr.Scientist

Kemwell Biopharma Pvt.Ltd.

Nelamangala, Bengaluru

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Large scale Purification of Monoclonal antibodies' is a bonafied work carried out by Ms. Durga Venugopal (Reg.no. JBI19001) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

Examiners

1. Br. Human & Songer 2. B. M. Str. X

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar

1. y. san

Co-ordinator, JSS BiSEP

Assistant Professor and Head, PG Dept. of Bio-Technology

Ooty road, My

Delayed Ripening of Psidium guajava: Edible Polymer Coating Re-Inforced with Plant Biomolecules



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Navyashree K.N

Reg. No.JBT17016

IV Semester, M.Sc., Bio-Technology

The line guidance of

Mr. VASANTH PATIL H.B

M.Sc., BTFS, KSET

Assistant Professor
PG Department Of Biotechnology
JSS College of Arts, Commerce and Science, Ooty Road, Mysuru-570025

MAY-2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled Delayed Ripening of Psidium guajava: Edible Polymer Coating Re-Inforced with Plant Biomolecules' is a bounfide work carried out byMs. Navyashree K.N(Reg.no.JBT17016) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the venr 2018-2019

Mr. Vasanth Patil H.B.

Assistant Professor

PG Department of Bio-Technology

Examiners:

1. Jany June / 15/19

Place: Mysuru.

Date:

Assimult Professor med Head

Postgraduale Debartness SPB981 Technology . & 8 Cullegn of 4.25, Commaren & Science

Outy Read, Mysorg 510 025

ahadevappa

Principal, JSSCACS

Ooty road, Mysuru - 25.

PRINCIPAL
JISS College of Ara, Commerce & Science
Ooty Road, MYSURU-25

BIOLOGICAL ACTIVITIES OF PYRROLO[1,2a]QUINOLINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr.VISHWANATH D.S.

Reg. No. JBT17034 IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Designation

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

retified that project report entitled 'BIOLOGICAL ACTIVITIES OF RROLO[1,2-a]QUINOLINE DERIVATIVES' is a bonified work carried out by VISHWANATH D.S (Reg.no...JBT17034) in partial fulfillment of the quirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Postgraduate Department of Stor Inchnology

Cultage of Arts, Committee & Science

Outs and Myson 3 7 725

Examiners:

1. Jacobsont letter

2.

Piace: Mysuru

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25,

J. S. S. COLLEGE

Ooty Road, Mysore-570 025

2

CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICACY OF A DERIVATIVE OF D-GLUCOPYRANOSIDE IN PATIENTS WITH TYPE-II DIABETES MELLITUS

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of Master of Science
(M.Sc.) degree in Biotechnology of University of Mysore



Submitted by

PRANATHI HUBLI

Reg. No. JBT17017 IV Semester

Under the guidance of

DR. B. Y. SATHISH KUMAR

Head of Postgraduate Department Bio-Technology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE -570025

JSS Mahavidyapeetha COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE -570025

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
PG DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Contilled that project report entitled 'CLINICAL STUDY TO EVALUATE SATELY AND EFFICAC OF DERIVATIVE OF DEGICE COPYRANOSIDE IN SUBJECTS WITH TYPE-II DIABETES M LLITUS.' is a bonified work carried out by Ms. PRANATHI HUBLI. Reg.no. JBT17017) in partial fulfillment of the requirements for the award (Master of Science (M.Sc.) degree in Biotechnology of University of Mysorc in the year 2018–19.

GUIDE:

- Mrs. Sonika Handae
 Zetalix solutions
- 2. Dr. B. Y. Sathish Kumar Head Postgraduate Department Bio-Technology

Signature of the Guide

Examiners:

1. dolu. 6.11 2. B.y. Sn. X.

Place: Mysore Date: 6 | 5 | 19 Dr. B. Y. Sathish Kumar Head Postgrildung Department PBD rectinitibility monology I & S College of Arts, Commune & Science, Boty Road, Mysorn 570 925

Prof. M. Mahadevappa

Principal, JSSCACS Ooty road, Mysore - 25.

Ooty Road, Mysore-570 020

Identification and Characterization of Recombinant Protein by using multiple Analytical Methods

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



IS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Mr. R.VASHNI

Reg. No. JB117008

II Semester

Under the guidance of

Dr. NANDAKUMAR SUNDARAMOORTHY

Senior Scientist, Stelis BioPharma, Jigani Link Road, Bangalore.

March - 2019

JSSCOLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Program Postgraduate Department of Biotechnology

CERTIFICATE

I cer i d that project report entitled "Identification and Characterization of Recon 1 ant Protein by using multiple Analytical Methods" is a bonified work carried out by 1 r. R.VASHNI (Reg.No. JBI17008) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka&DBT, Govt. of India during the year 2018-2019.

Bangalore Dr. Nandakumar Sundaramoo

Senior Scientist, Stells Biopharma f

Bangalore

ite:

ace: Mysore

2

rof. M.Mahadevappa

Dr. B.Y. Sathish Kumlar

Co-ordinator, ISS BTES

ssistant Professor and Head; times

Dept. of Bio-Technology

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Commerce & Science Coty Road, MYSURU-25

BIOLOGICAL EVALUATION OF PURINE DERIVATIVES



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

laster of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

SHREEDHAR GS

Reg. No. JBT17029

IV Semester

Under the guidance of

Dr. Rekha N. D. Msc. Ph.D

Assistant Professor

Postgraduate Department of Bio-Technology

May - 2019

JSS MARAVIDYAPEETA

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



ied that project report entitled Biological Evaluation of Purine derivatives onified work carried out by Mr. SHREEDHAR G S (Reg.no. JBT17029) in all fulfillment of the requirements for the award of Master of Science (M.Sc.) on Biotechnology of University of Mysore during the year 2018 – 19.

GUIDE: Pelda No

Dr. Rekha N. D. Msc.Ph.D Assistant Professor Postgraduate Department of Bio-Technology Dr. B. Y. Sathish Kumar Assistant Professorum Flead Postgraduate Department of Bio Wehnology

Outy Hose, Mysorn 510 025

Examiners:

1. Sportsong/older

Place: Mysore Date: 6/5/2019

Prof. M. Mahadevappa Principal, JSSCACS

Ooty road, Mysore - 25.

J. S. S. COLLEGE Ooty Road, Mysore-570025

BIOLOGICAL ACTIVITIES FROM THE FRUIT EXTRACT OF TERMINALIA CATAPPA



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

SHILPA .P

Reg. No. JBT17027

IV Semester Under the guidance of

Dr. Rekha N.D. M. Sc., Ph. D.

ASSISTANT PROFESSOR

PG DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSORE-570025

MAY-2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

ed that project report entitled BIOLOGICAL ACTIVITES FROM

FRUIT EXTRACT OF TERMINALIA CATAPPA' is a bonified

erried out by SHILPA.P (Reg.no. JBT17027) in partial fulfillment of the requirements

sward of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore for

de: the year 2018-2019

Jr.Rekhn

ssistant professor Department of

lio-Technology

xaminers

lace: Mysore

Assistant Projessor and blead
Postgraduate Department of Bio Federal Sogy

Outy Road, Mysern 510 925

M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICACY OF A DERIVATIVE OF D-GLUCOPYRANOSIDE IN PATIENTS WITH TYPE-II DIABETES MELLITUS

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of Master of Science
(M.Sc.) degree in Biotechnology of University of Mysore



Submitted by

SHREYALI TEJANNAWAR

Reg. No. JBT17030 IV Semester

Under the guidance of

DR. B. Y. SATHISH KUMAR

Head of Postgraduate Department Bio-Technology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE -570025

COLLEGE OF ARTS, COMMERCE AND SCIENCE OOTY ROAD, MYSORE - 570025

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
PG DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that project report entitled 'CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICAC OF DERIVATIVE OF DEGLUCOPYRANOSIDE IN SUBJECTS WITH TYPE-II DIABETES MELLITUS.' is a bonified work carried out by Ms. SHREYALI TEJANNAWAR (Reg.no. JBT17030) in partial fulfillment of the uirements for the award of Master of Science (M.Sc.) degree in ochnology of University of Mysore during the year 2018–19.

UIDE:

- Mrs. Sonika Handae
 Zetalix solutions
- ♣ Dr. B. Y. Sathish Kumar Head Postgraduate Department Bio-Technology

Signature of the Guide

Examiners:

1 den. F. 9 2 B. Y. SALX

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar Head Postgradule Department Bits rechnology pactogs

Onty House, Myson 5:10 025

Prof. M. Mahadevappa

Principal, JSSCACS Ooty road, Mysore - 25. Principal

J. S. S. COLLEGE

Ooty Road, Mysore-570 023

BIOLOGICAL EVALUATION OF NIO NANOPARTICLES AND SCHIFF BASES



Project Report

Submitted to the

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of ater of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

SHANTHI J Reg. No. JBT17025 IV Semester, M.Sc., Bio-technology

Under the guidance of Dr. REKHA.N.D MSc., Ph.D

Assistant Professor
Postgraduate Department of Bio-Technology
Jss college of arts, commerce and science, Ooty Road, Mysuru-570025

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Ce ied that project report entitled 'BIOLOGICAL EVALUATION OF NiO

N NOPARTICLES AND SCHIFF BASES' is a bonified work carried out by

S NTHI J(Reg.no. JBT17025) in partial fulfillment of the requirements for the award of M or of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year

201 - 2019

GUIDE:

Dr.Rekha N.D. M.sc., Ph.D

Assistant professor Department of Bio-Technology

Examiners:

1. Despt 74.0

Place: Mysore

Date: 6/5/2019

Dr. B. Y. Sathish Kumar
Assisting Professional Profession Professi

Prof. M. Mahadevappa Principal, JSSCACS Ooty mad, Mysore - 25.

Ooty Road, Mysore-570 025

Clinical research to evaluate the effect of Canagliflogin on Renal and Cardiovascular Outcomes in subjects with Type2 Diabetes Mellitusand Diabetic Nephropathy



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

aster of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

GREESHMA BHAT

Reg. No. JBT17009

IV Semester

Under the guidance of

Dr. Sathish kumar M. Sc., Ph. D.

ASSISTANT PROFESSOR AND HEAD

PG DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSORE-570025

MAY-2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Clinical Research to Evaluate the Effects of Canagiffozin on Renal and Cardiovascular Outcomes in Subjects With Type 2 Diabetes Mellitus and Diabetic Nephropathy' is a bonified work carried out by Mx.Greeshma Bhat (Reg.no. JBT17009) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in B attechnology of University of Mysore during the year 2018 – 19.

UIDE:

Ramya K.N.

linical research coordinator.

olumbia Asia Hospital, Mysore.

gnature:

Kanya KN

2.Dr.B.Y. Sathish Kumar

Signature:

Examiners:

.10

2. R.y. Sant.

Dr. Best Sathish Kilmations
Assistant Professor and Head 5 Science
Postgraduate Department of Bio-Technology

Prof. M. Makadevappa Principal, JSSCACS Ooty road, Mysore - 25.

Oaty Read, Mysore-570 023

BIOLOGICAL ACTIVITY OF INDOLIZINE DERIVATIVES

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms.GANAVI V

Reg. No. JBT17008

IV Semester

Under the guidance of

Dr.MALLIKARJUN B. CHOUGALA

Designation

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Tertified that project report entitled 'BIOLOGICAL ACTIVITIES OF DOLIZINE DERIVATIVES' is a bonified work carried out by Ms.GANAVI V :.JBT17008) in partial fulfillment of the requirements for the award of Master cience (M.Sc.) degree in Biotechnology of University of Mysore during the year 1-19.

2

IDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Assistant Brakemonaudrhienti

Postgraduate of partings that Bandles mology

\$ 5 Currege of Note Commerce & Science

dety one Mysare , 0.925

Examiners:

400

2.

Piace: Mysuru

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty goad, Mysore - 25.

B. S. S. COLLEGE

Octy Road, Mysore-570 025

Development of Protein Molecular Weight Marker for Drug Discovery

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORF -570025

Submitted by

Ms. Smruti Shovna

Reg. No. JBI17010 II Semester

Under the guidance of

Dr. Dharma Prasad M., PhD

Managing Director and Chief Technology Officer

Prosetta Bioconformatics Pvt Ltd.

#67B, Near Infosys, Hootagalli, Ilavala Hobli, Karnataka 570018

March - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Development of Protein Molecular Weight Marker for Drug Discovery' is a bonified work carried out by Ms. Smruti Shovna (Reg.no. JBJ17010) in partial fulfillment of the requirements for the award of the degree of Postgradunte Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India during the year 2018-2019.

GUIDE:

MD and CTO

Prosetta Bioconformatics Pvt Ltd.

Dr. B.Y. Sathish Kumar

Co-ordinator, ISS BISEP

Assistant Professor and Head classes

1 Per Dept. of Bio-Technology

M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL USS College of Arts. Commerce & Science Only Road, MYSURU-25

Optimization of Western Workflow- Extraction, Solubilization and Immunodetection of proteins over broad molecular weight range

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE-570025

Submitted by,

Sushmitha A

Reg. No. JBI18008

II Semester

Under the guidance of

Dr. Rajeev K Pandey

Scientist III, Protein biology

ThermoFisher Scientific

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

18th Substances College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

fied that project report entitled 'Optimization of Western Workflow-

tion. Solubilization and Immunodetection of proteins over broad molecular

range' is a bonafied work carried out by Ms. Sushmitha A (JBI18008) in

fulfillment of the requirements for the award of the degree of Postgraduate

and in Protein Expression and Scale-up under Biotechnology Skill

rement Programme sanctioned and supported by KTech, Govt. of Karnataka

& All T. Govt. of India.

GUIDE:

Dr. Rajeev K Pandey

Examiners;

1.

2 14.0

Place: Mysore

Date: 12 10 19

Dr. B.Y. Sathish Kumar Co-ordinator, JSS BiSEP Assistant Professor and Head,

PG Dept. of Bio-Technology

Prof. M. Mahadevappa Principal, JSSCACS Ooty road, Mysore - 25.

EFFECT OF OCIMUM BASILICUM ON ANTIMICROBIAL AND ANTIOXIDANT ACTIVITY



Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SARIKA.M

Reg. No. JBT17024

IV Semester

Under the guidance of

Mr. ABHIGNAN GURUKAR

Aust. Professor

May - 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Effect Of Ocimum Basilicum On
Antimicrobial And Antioxidant Activity' is a bonified work carried out by Ms.
SARIKA.M (reg.no. JBT17024) in partial fulfillment of the requirements for
the award of Master of science (M.sc.) degree in Biotechnology of
university of Mysore during the year 2018-2019.

Mr. ABHIGNAN GURUKAR

Assistant professor,

Department of biotechnology

Jss college, Ooty road Mysore

Examiners:

1. Sheg Bybolg

2 Margaret

Place: Mysore

Dr. B. Y. Sathish Kumar

Assistan P Professor and Treadout

8 S College of 1115, Commorce & Science

Postgraduate Department of Bio-Technology

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25

Principal

J. S. S. COLLEGE

Ooty Road, Mysore-570 025

Clinical Research Study to Evaluate the Effect of AMR101 on Cardiovascular Health and Mortality in Hypertriglyceridemic Patients with High Risk for Cardiovascular Disease

Project Report

Submitted to the

Postgraduate Department of Biotechnology



JSS College of Arts, Commerce and Science
In partial fulfillment of the requirements for the award of
Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Divya H.D Reg. NO: JBT17007 (IV Semester)

Under the guidance of

Dr. B.Y Sathish Kumar

Assistant Professor and Head
Postgraduate Department of Bio-Technology
JSS college of Arts, Commerce and Science
Ooty road –Mysore
May – 2019

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

rified that project report entitled 'Clinical Research Study to Evaluate the lect of AMR101 on Cardiovascular Health and Mortality in pertriglyceridemic Patients with High Risk for Cardiovascular Disease' is bonified work carried out by Ms. Divya H.D (Reg.ne. JBT17007) in partial lillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018 – 2019.

SUIDE:

Razzya KN

1. Mrs. Ramya K.N

Clinical research coordinator Columbia Asia hospital Mysore

2. Dr. B.Y Sathish Kumar

** Pit Det Outubu Kumar

Examiners:

1. gov. F.1 2 By Shife.

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Posternaling Department adding Technology

ISS college of Arts, Commerce and Science

Outy Head, MW. 879 0 025

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

J.S.S. College Outy Need, Myster-570 023

2

" ANTIOXIDANT AND ANTIMICROBIAL PROPERTY OF DRAGON FRUIT (HYLOCEREUS SPECIES)"

Dissertation

Submitted To the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

In partial fulfillment of the requirements for the award of

Master of Science(M.Sc.)degree in Biotechnology of University of Mysore

Submitted by

Ms. KAVYA S

Reg. No. JBT18011

IV Semester

Under the guidance of
Mr. Abhignan Gurukar
Assistant professor
PG Department of Biotechnology

September-2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Certified that project report entitled " ANTIOXIDANT AND ANTIMICROBIAL DRAGON FRUIT (HYLOCEREUS SPECIES)"is a bonified work carried out by Ms.KAVYA.S (Reg.no.JBT18011) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE:

R.M. SAL Mr. Abhignan Gurukar (

Assistant professor

PG Department of Biotechnology

Place: Mysore

Date: 21-09-2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Eschnology

PS Dept of Riots:mulogy

College of A.ts. Lummurco & Science

Bety Road, Mysors-570 025

. Honnappa

Principal, JSSCACS Ooty road.

Mysore - 25 PRINCIPAL PRINCIPAL Scence JSS College of Arts, Commerce & Sc Oaty Ropen MVSURU-25

BIOTIC STRESS IN PLANTS

Dissertation Report

Submitted in partial fulfilment of the requirements for the award of the degree Master of Science in Bio-Technology

To

Postgraduate Department of Bio-Technology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSURU -570025



Submitted by

Ms. Krupa. L Reg. No. JBT18014

IV Semester

Under the guidance of

Mr. Vasanth Patil H.B M.Sc., BTFS., KSET

Assistant Professor

PG Department of Studies and Research in Bio-Technology

JSS College, Ooty Road, Mysuru-25

September-2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



Postgraduate department of Bio-Technology CERTIFICATE

Certified that project report entitled 'BIOTIC STRESS IN PLANTS' is a bonafide work carried out by Ms. Krupa L (Reg.no. JBT18014) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology Prescribed by University of Mysore during the year 2019 - 2020

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor

PG Department of Bio-Technology

Examiner

13.4. Frite

Place: Mysuru

Date: 21-5-10

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PE Dant of Riote mology

S & College of A ta Commerce & Science

Boty Read Meaner 571) 1775

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty Road Mysuru - 25.

JSS College of Arts, Curmerce & Science Ooty Road MYSURU-25

LIPOSOME AND THEIR APPLICATION IN CANCER THERAPY

Dissertation

Submitted to the Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
In partial fulfillment of the requirements for the award of
Master of Science (M.Sc.) degree in Biotechnology
Of University of Mysore.

Submitted by

Ms. NEHA N

Reg. No. JBT18017

IV Semester

Under the guidance of

Dr.Mallikarjun B Chougala

Assistant professor

PG Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Certified that project report entitled 'LIPOSOME AND THEIR APPLICATION IN CANCER THERAPY 'is a bonified work carried out by Ms.NEHA N (Reg.no.JBT18017) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019–20.

GUIDE:

Dr. Mallikarjun B Chougala

PG Department of Biotechnology

Examiners:

1. MBG

7

Place: Mysore

Date: 01/09/20

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bios Tethnology

PS Dept of Riota:mology

a & & College of A.ts. Commerce & Science

Boty Roud, Mysers 570 025

Prof. H.C.Honnappa

Principal, JSSCACS

Octy road Myserc - 25.

USS College of Arts, Cummerce & Science Ooly Road, MYSURU-25

"Green Synthesis of Nanoparticles and Preparation of Hydrogels Using Cocoon Extract and Its Anti-microbial Activity"

Sub Title: GREEN SYNTHESISI OF DIFFERENT NANOPARTILCES BY USING COCOON EXTRACT AND ITS ANTIMICROBIAL ACTIVITY

Dissertation/Project Report

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Pooja Hegde JBT18025 IV Semester

Under the guidance of

1)Dr. Ravindra Scientist- C CSRTI, Mysore

2) Dr. B.Y Sathish Kumar Assistant Professor and Head Postgraduate Department of Bio-Technology

SEPTEMBER 2020

JSS Mahavidyapeetha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

I hereby certify that the project work entitled, "Green synthesis of nanoparticles and preparation of hydrogels using cocoon extract: its anti-microbial activity" is carried out by POOJA HEGDE student of final year M.Sc., Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science, Mysuru, for the partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology under the University of Mysuru is the result of bonafide research work carried out by her under the guidance of DR. RAVINDRA., Scientist-C. Chemistry Laboratory, Central Sericultural Research and Training Institute (CSRTI), Mysuru during the period from January, 2020 to April, 2020.

I also declare that this team work has not been submitted to any another University or institutions for the award of any degree.

Dr. Ravindra

Scientist- C

CSRTI, Mysore

Examiners

1 Koung 14-9

Place: Mysone

Dr. B.Y Sathish Kumar

Assistant Professor and Head

Postgradu**ngs Departmen Unführennen k**ology

PE Depl of Riots moulogy

& & College of A ta Commerce & Science

Baty Howd, Mysorn 570 034

For H.C Ponnappa

Principal, JSSCACS

Octy Road Mysess 25

USS College of Arts. Cummonde & Science Opty Road MV SURU-25

BASICS OF MICROBIOLOGICAL ANALYSIS OF FOODS & BEVRAGES AT ITC Ltd.

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology

of University of Mysore

Submitted by

Mr. NISHANTH.N

Reg. No. JBT18020 IV Semester

Under the guidance of

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-Technology

Dr. Manish Pareker

Head of Central Quality Assurance Lab (CQAL), ITC-LSTC, Bengaluru

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Basics of Microbiological analysis of Foods & Beverages at ITC Ltd. is a bonified work carried out by Mr. NISHANTH.N (Reg.no.JBT18020) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE: Dr. B. Y. Sathish Kumar 7.4 (A)

Dr. Manish Pareker

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head of

Postgraduare statem des windes Technology

PG Dept of Riotechnulogy

A & College of A ta Lummerce & Science

Boty Roud, Mysore 578 025

Examiners

Place: Mysore

OSO2 10 18 :sted

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

JSS College of Arts, Cummerce & Science
Ooty Roam MYSURU-25

CHITOSAN NANOPARTICLES: PREPARATION, CHARACTERIZATION AND APPLICATIONS



Dissertation

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. PALLAVLS

Reg. No. JBT18023

IV Semester

Under the guidance of

Dr. Mallikarjun B Chougala

Assistant professor

PG Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade &College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'CHITOSAN NANOPARTICLES: PREPARATION, CHARACTERIZATION AND APPLICATIONS'isabonified work carried out by Ms. PALLAVLS(Reg.no. JBT18023) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE:

Dr. Mallikarjun B Chougala

Assistant professor

PG Department of Biotechnology

Dr. B.Y. Sathish Kumar
Assistant Professor and Head
Postgraduate Department of Binatechnology
PG Dept of Rietz::newlogy

1 6 8 College of A.ts. Commerce & Science Boty Raud, Mysure-570 025

Examiners:

1.

2

Place: Mysore

Date:

Prof. H.C. Honnappa Principal, JSSCACS Ooty road, Mysore - 25.

SYNTHETIC BIOLOGY

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate

Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement

Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSORE -570025

Submitted by

SUSHMA G

Reg. No. JBI19011

II Semester

Under the guidance of

Dr. CHANDRASHEKAR Clarette Biotech Pvt Ltd.

Mysuru.

September 2020

(An Autonomous College of University of Mysore)

MYSORE-570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Synthetic biology' is a bonafied work carried out by Sushma G (Reg.no. JB119011) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India

Signature of the Guide with seal

Dr. B.Y. Sathish Kumar Co-ordinator, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

Examiners:

1.

2.

Place: Mysore

Date:

Prof. M. Mahadevappa Principal, JSSCACS Ooty road, Mysore - 25.

Expression, Purification and Assay Establishment of Recombinant Proteins- GST, GAPDH and PRDX 6

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Mrs. Madhura Banu

Reg. No. JBI18003

II Semester

Under the guidance of

Dr. Dharma Prasad M., PhD

Managing Director and Chief Technology Officer

Prosetta Bioconformatics Pvt Ltd.

#67B, Near Infosys, Hootagalli, Ilavala Hobli, Karnataka 570018

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Expression, Purification and Assay Establishment of Recombinant Proteins- GST, GAPDH and PRDX 6' is a bonafied work carried out by Mrs. Madhura Banu (Reg.no. JBI18003) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

2

GUIDE:

Dr. Dharma Prasad M., PhD

MD and CTO

Prosetta Bioconformatics Pvt Ltd.

Dr. B.Y. Sathish Kumar

Ry. Can

Co-ordinator, JSS BiSEP Assistant Professor and Head,

PG Dept. of Bio-Technology

Examiners:

1. (.)

2 B.4. SALX

Place: Mysore

Date: 12 10 2019

Prof. M. Mahadevappa

Principal, JSSCACS

Ooty road, Mysore - 25.

TRANSFERRIN AND ITS ROLE IN HUMAN (FUNCTIONAL MECHANISMS)

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post

Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology

Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

MD.NEMATULLAH

Reg. No. JBI19005

II Semester

Under the guidance of

Mr. Sendil Kumar

Assistant Manager

QC Chemicals Department

Richcore Lifesciences Pvt Ltd

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme

Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "TRANSFERRIN AND ITS ROLE IN HUMAN (FUNCTIONAL MECHANISMS)" is a bonafied work carried out by MR. MD. NEMATULLAH Reg.no. JBI19005 in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

Dr. B.Y. Sathish Kumar

R.Y. SALis

Co-ordinator, JSS BiSEP

Assistant Professor and Head.

PG Dept. of Bio-Technology

1. D. Herman D'Songo 2. D. Y. Strike

Place: Mysore

Date:

Ooty road, Mysore - 25.

JSSCACS

ENZYMATIC METHOD FOR THE DETECTION OF HUMAN SERUM ALBUMIN AND ANALYTICAL INSTRUMENTS, TECHNIQUES USED IN RECOMBINANT PROTEIN ANALYSIS

Project report

Submitted in partial fulfilment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BISEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by Rineesh Milton Reg.No. - JBI19008 II Semester

Under the guidance of

Mr. Sendil Kumar
Assistant Manager
QC Chemicals department
Richcore Lifesciences Pvt Ltd
September – 2020

(An Autonomous College of University of Mysore) MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "ENZYMATIC METHOD FOR THE DETECTION OF HUMAN SERUM ALBUMIN AND ANALYTICAL INSTRUMENTS, TECHNIQUES USED IN RECOMBINANT PROTEIN ANALYSIS' is a bonafied work carried out by Mr. Rineesh Milton (Reg.no. JBi19008) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

Examiners:

2 By. SALX

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar Co-ordinator, JSS BISEP Assistant Professor and Head, PG Dept. of Bio-Technology

Principal, JSSCACS,

Ooty road, Mysore - 25.

JSS College of Rich Committee & Science Colly Roses My SURGE-25

SYNTHETIC BIOLOGY

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate

Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement

Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSORE -570025

Submitted by

SUSHMA G

Reg. No. JB119011

II Semester

Under the guidance of

Dr. CHANDRASHEKAR Clarette Biotech Pvt Ltd. Mysuru.

September 2020

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Synthetic biology' is a bonafied work carried out by Sushma G (Reg.no. JBI19011) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India

GUIDE:

Dr. Wardinic Signature #600

Name of the

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BiSEP

Assistant Professor and Head.

PG Dept. of Bio-Technology

Examiners:

2.

Place: Mysore

Date:

Principal, JSSCACS

Ooty road

JSS College of Arts, C., Outy Road M

FED BATCH FERMENTATION OF CHO CELL LINE

Project report

Submitted in partial fulfillment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Ms. Gagana N

Reg. No. JBI19002

II Semester

Under the guidance of

Mr. Poornachandra Nagineni,

Process Lead, KemwellBiopharma Pvt. Ltd. 34th KM, Tumkur Road, T-Begur, Nelamangala, Bangalore- 562123

(An Autonomous College of University of Mysore) MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'FED BATCH FERMENTATION OF CHO CELL LINE' is a bonafied work carried out by Ms. GAGANA N (Reg.no. IEI19002) in partial fulfillment of the requirements for the award of the degree of - Indicate Diploma in Protein Expression and Scale-up under Biotechnology St. Enhancement Programme sanctioned and supported by KTech, Govt of K-verdea & DBT, Govt. of India.

GUIDE: Mr.Poornachandra Nagineni

Coopulmann 156 Hallip

1. G. Human D'Suzu 2. B. 4. SACX

Place: Mysore

Only Road MYSURU-25

Analytical techniques and good laboratory practices in Microbiology lab in Nestle India ltd, Nanjangud.



Internship Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by Mr. Nishanth.D.S Reg. No. JBT18019 IV Semester

Under the guidance of

Dr. B.Y.Sathish Kumar

Assistant Professor and Head Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Analytical techniques and good laboratory practices in Microbiology lab in Nestle India ltd, Nanjangud' is a bonified work carried out by Mr.Nishanth.D.S (Reg.no. JBT18019) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE:

1. Suite.

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Pion Technology

PS Dept of Rietz:haulogy

1 4 & College of A.ts. Commerce & Science

Bety Roud, Mysure 570 025

Place: Mysore

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore 25.

JSS Coffeye of Arts. Cultimerce & Science Only Road, MYSURU-25

ANALYTICAL INSTRUMENTS AND TECHNIQUES USED IN ANIMAL ORIGIN FREE RECOMBINANT PROTEIN ANALYSIS

Project report

Submitted in partial fulfilment of the requirements for the award of the degree Post Graduate Diploma in PROTEIN EXPRESSION AND SCALE-UP under Biotechnology Skill Enhancement Programme (BiSEP)

TO

Postgraduate Department of Biotechnology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

Submitted by

Srinivasa S

Reg.No. - JBI19010

II Semester

Under the guidance of

Mr. Sendil Kumar

Assistant Manager

OC Chemicals department

Richcore Lifesciences Pvt Ltd

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "ANALYTICAL INSTRUMENTS AND TECHNIQUES USED IN ANIMAL ORIGIN FREE RECOMBINANT PROTEIN ANALYSIS" is a bonafied work carried out by Mr. SRINIVASA S (Reg.no. JBI19010) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

Examiners:

1.

2.

Place: Mysore Date Dr. B.Y. Sathish Kumar Co-ordinator, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

Prof. M. Mahadevappa Principal, JSSCACS, Ooty road, Mysore - 25.

(Autonomous, NAAC *A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



A REVIEW ON PHYTOREMEDIATION EFFICIENCY OF PLANTS COLONIZED BY PERIFORMOSPORA INDICA IN THE HEAVY METAL CONTAMINATED SOIL

Dissertation Submitted in partial fulfilment of requirement for the award of the degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

Submitted by

Ms. AMRUTHA. N (Reg. No. JBT18001)

Under the guidance of Dr. Mallikarjun B Chougala, M. Sc, Ph.D.

ASSISTANT PROFESSOR

PG DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE.

OOTY ROAD, MYSORE- 570025

SEPTEMBER 2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



Certified that dissertation report entitled 'A Review on Phytoremediation Efficiency

of Plants Colonized by Periformospora Indica in the Heavy Metal Contaminated Soil', is a bonified work carried out by Ms. Amrutha. N (Reg.no.JBT18001) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.)

degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE:

Name & Signature of the Guide

Examiners:

1 64.54

2. Welling N.D

Place: Mysore

Date: 21 / 7 / 2020

Dr. B. Y. Sathish Kumar Assistant Professor and Head

Postgraduate Department of

Biotechnology:partment

PS Dept of Riots mulogy

. & E College at & ta, Commerce & Science

Bats Raud, Mounts, 5711 1125

Dr. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Custmerce & Science Ooty Road MYSURU-25

A STUDY ON ACUPUNCTURE SCIENCE

Dissertation

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. Keerthi V

Reg. No. JBT18012

IV Semester

Under the guidance of

Dr. Rekha N D

Assistant Professor

PG department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for

Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that dissertation report entitled 'A Study on Acupuncture Science' is a bonified work carried out by Mr. Keerthi. V (Reg.no. JBT18012) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 2020.

GUIDE:

Dr .Rekha .N.r.

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bis Feehnology

PG Best of Riets mology

A & College of A ta, Commerce & Science

Boty Raud, Mysors 570 028

Examiners: grafe.

2.

Place: Mysore

Date:

Dr. H C Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Property age 4 Scence Court Rose Ave 200 to 15

'HYPOTHYROIDISM'

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. MEGHANA KUMAR

Reg. No. JBT18015

IV Semester

Under the guidance of

Dr. Rekha N D

Assistant Professor department of Biotechnology, JSS college of Arts, commerce and Science, Ooty Road Mysuru.

June - 2020

JSS Mahavidyapeetha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'HYPOTHYROIDISM' is a bonified work carried out by Ms. Meghana kumar (Reg.no. JBT18015) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE: Dr. Rekhif N. D

Name & Signature of the Guide

B.4. SALK Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio Epsimology

PS Dopt of Riots mulogy

& College of A.ta. Commerce & Science

Buty Read, Mysure-570 025

Examiners:

Place: Mysore

DE H C Honnappa

Principal, JSSCACS

Ooty road MysapsaL25.

JSS Coffeye of Arts, Cumerce & Science Ooty Rop-1, MVSURU-25

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING CENTELLA ASIATICA LEAF EXTRACT AND THEIR BIOLOGICAL ACTIVITY.

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

In partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Namratha P

Reg. No. JBT18016

IV Semester

Under the guidance of

Dr. B Y Sathish Kumar

HOD of PG Biotechnology JSS College of Arts Commerce and Science, Mysuru September – 2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Centella asiatica: A potential herb' is a bonified work carried out by Ms. Namratha P Reg. No. JBT18016 in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2020.

GUIDE:

Name & Signature of the Guide

Assistant Professor and Head

Postgraduate Department of Department of the Pechnolog

PS Dopt of Rietz:moulogy

& College of A.ta. Commerce 9 Science

Bets Read, Mysure 570 025

Examiners:

Place: Mysuru

Dr. H.C. Honnappa

Principal, JSSCACS

JSS College of Arts, Cummerce & Science Ooty Roal MYSURU-25

"A REVIEW ON GOLDEN RICE"

Dissertation

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. NIVEDITHA.K.C

Reg. No. JBT18021 IV Semester

Under the guidance of

Mr. Abhignan Gurukar

Assistant professor

PG Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "A REVIEW ON GOLDEN RICE" is a bonified work carried out by Ms. NIVEDITHA K C (Reg.no.JBT18021) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019–20.

GUIDE:

Mr. Abhigaan Gurukar

Assistant professor

PG Department of Biotechnology

Examiners:

. .

2. (1

Place: Mysore

Date: 31/9 2010

Br. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Rio Technology

PS Dept of Riote:mulogy

I & & College of & to Commerce & Science

Bety laws Meants 570 928

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts. Cummerce & Science Ooty Road, MYSURU-25

Biosynthesis of Silver Nanoparticles Using Allium sativum extract and its Cytotoxic, Antioxidant and Antibacterial Activity

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Parinika H S

Reg. No. JBT18024

IV Semester

Under the guidance of

Dr. B.Y Satish Kumar
Head of Department Biotechnology
JSS College of Arts, Commerce, Science
Ooty Road, Mysuru.

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Biosynthesis of Silver Nanoparticles Using Allium sativum extract and its Cytotoxicity, Antioxidant and Antibacterial Activity' is a bonified work carried out by Ms. PARINIKA H.S. (Reg.no. JBT18024) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE:

Dr. B. Y. Sathish Kumar Assistant Professor and Head

Postgraduate Department of Bio-Technology

PS Dept of Rists:mulogy

a 6 & College of A.ta, Commerce & Science

Bety Roud, Mysers 570 975

Examiners:

L.

2.

Place: Mysore

Prof. H.C.Honnappa Principal, JSSCACS

Octy road. Mysore - 25.

PRINCIPAL

JSS College of Arts, Cusmerce & Science

Octy Rosel, MYSURU-25

MEDIA OPTIMISATION AND PRODUCTION OF TALAROMYCES PURPUREOGENUS CFRM02 PIGMENT USING CHICKEN FEATHER AS SUBSTRATE

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore



Submitted by

Mr. CHINMAY RAMACHANDRA HEGDE

Reg. No. JBT18005

IV Semester

Work carried out under the guidance of

Dr. B.Y. SATHISH KUMAR

HOD Dept.of Biotechnology

JSS College of Atrs, Commerce and Science,

Mysore-570025







JSS MAHAVIDYAPEETHA

JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

OOTY ROAD, MYSORE-570 025

(Autonomous; NAAC with 'A' grade & UGC Recognised 'College with Potential for Excellence')

#: 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: <u>Issautonomous@gmail.com</u> Website: www.jsscacs.edu.in

27-12-2019

ANNEXURE I

UNDERTAKING BY THE SELECTED STUDENT FOR PROJECT WORK AT CSIR-CFTRI

The project students and their college / staff members shall have no claim whatsoever on the results of the project work. CSIR-CFTRI retains all intellectual Property Rights in patents, designs, software, copyright and publications, if any that may be generated during the course of project work. In the event of any dispute arising, the decision of Director, CSIR-CFTRI, is final and is binding on the student(s) and college. (Sl. No. 17 of Annexure I).

The college certificate in the project report prescribed by college / University shall categorically reflect that the place of project work is CSIR-CFTRI and acknowledge the name of the staff member who has guided. (Sl. No. 18 of Annexure I).

We have read the prescribed rules and regulations (SI. Nos. 1 to 18 of Annexure I) and we agree to abide by them during our project work at CFTRI, Mysore and to the Conduct and Discipline mandate of the Institute.

Il Year M.Sc., Biotechnology

A Review on Structural proteins as Biopolymer materials

Dissertation/Project Report Submitted to the Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. Jayasimha L. Reg. No. JBT18007 IV Semester

Under the guidance of

Dr. Rekha, N.D M.Sc., Ph.D

Assistant professor

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

Ooty road, Mysore

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Postgraduate Department of Bio-Technology

CERTIFICATE

Certified that project report entitled 'A Review on Structural Proteins as Biopolymer Materials' is a Bonafede work carried out by Mr. Jayasimha, L. (JBT18007) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology Prescribed by

University of Mysore during the year 2019 – 2020

GUIDE: <

Dr. Rekha, N.D

Assistant Professor

PG Department of Bio-Technology

Examiners:

1. B.y. SALX

2. Resule N. O

Place: Mysuru

Date: 8 | 04 | 2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-

PS Deprotogy melogy

1 & A College of a 25 Lamerta 9 Science

Bety tout, Mysure 570 028

rof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Cultimerce & Science Ootly Road MYSURU-25

A Review on Chemical transformation of Xenobiotic by the Human Gut Microbiota

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Anju S.

Reg. No. JBT18002

IV Semester

Under the guidance of

Dr. Rekha N, D M.Sc., Ph.D.

Assistant professor

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

Ooty road, Mysore

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



Postgraduate Department of Bio-Technology CERTIFICATE

Certified that project report entitled 'A Review on Chemical Transformation of Xenobiotic By The Human Gut Microbiota' is a Bonafede work carried out by Ms. Anju S. (JBT18002) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology Prescribed by University of Mysore during the year 2019 - 2020

GUIDE: Sapeline 21/2

Assistant Professor

PG Department of Bio-Technology

1. (1.4. Still

2. Peran mis

Place: Mysuru

Date: 21 9 20

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-

re thechandlesses meutogr

4 & College of A.ts. Commerce & Scien

Boty Saud, Mysore 570 028

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Cultimetre & Science Only Roal MYSURU-25

Bioactivity in Coffee: Health Benefits of Coffee Consumption

Dissertation Report

Submitted in partial fulfillment of the requirements for the award of the degree

Master of Science in Bio-Technology

To

Postgraduate Department of Bio-Technology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) . MYSURU -570025



Submitted by

Ms.Bhoomika.K.R

Reg. No. JBT18003

IV Semester

Under the guidance of

Mr. Vasanth Patil H.B M.Sc., BTFS., KSET

Assistant Professor
PG Department of Studies and Research in Bio-Technology
JSS College, Ooty Road, Mysuru-25
September- 2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



Postgraduate Department of Bio-Technology CERTIFICATE

Certified that project report entitled 'Bioactivity in Coffee: Health Benefits of Coffee Consumption' is a bonafide work carried out by Ms. Bhoomika K.R (JBT18003) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology Prescribed by University of Mysore during the year 2019 - 2020

GUIDE:

Mr. Vasanth Patil H.B.

Assistant Professor

PG Department of Bio-Technology

Examiners:

1. By. Sacil

2. Reday o

Place: Mysuru

Date: 21/ 9/2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

a Lockenno Department

PS Boot of Rietz:modogy

A & B College of A ta, Commerce & Science

Buty Roud, Mysurs 570 025

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Cummerce & Science Outy Row MYSURU-25

Homology Modelling, Molecular Docking of non-structural Protein3 of Severe Acute Respiratory Disease Coronavirus-19 (COVID-19)

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. YERRISWAMY K

Reg. No. JBT18044

IV Semester

Under the guidance of 1.Mr.Vivek Chandramohan

2.Dr. B. Y. Sathish Kumar

Assistant Professor Department of Biotechnology, Siddaganga Institute of Technology, Tumkur

Assistant Professor and Head Postgraduate Department of Bio-Technology, JSS college of arts, commerce and science Ooty road ,Mysore



Sree Siddaganga Education Society (R)

DEPARTMENT OF BIOTECHNOLOGY Siddaganga Institute of Technology

(An Autonomous Institute, Affiliated to Visvesvaraya: Technological University, Belgaum & Recognized by AICTE. Accredited by National Board of Accreditation, New Delhi)

Tumkur - 572 103, Kamataka, INDIA.

Ph.: Off: +91(0) 816 - 2214039, Fax - Off: +91(0) 816-2282994

H SIT. No/ 5C-01 2020

Date: 08 04 2021

Internship Certificate

This is to certify that Mr. YERRISWAMY K (JBT18044), Department of Biotechnology, JSS College of Arts, Commerce and Science (Autonomous)., Ooty Road, Mysuru - 25 successfully completed internship from 20th January 2020 to 15th March 2020 on "Homology Modelling, Molecular Docking and Molecular dynamic simulation of non-structural protein 3 of Sever Acute Respiratory Disease Coronavirus-19(COVID-19)" at Department Biotechnology, Siddaganga Institute of Technology, Tumakuru.

Head of the Depart

of the Department Department of Bistechnology

Biddagangs Institute of Techni





VALUE ADDITION OF SPICES USING PLANTATION PRODUCTS

Project work

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of

Mysore

Submitted by

Ms. SUPRIYA T

Reg. No. JBT18040

IV Semester

Under the guidance of

Dr. B B BORSE

Prof. AcSIR, Sr. Principal Scientist, Department of Spice and Flavor Science (SFS) CFTRI-Mysore Dr. B.Y. Sathish Kumar HOD Dept. of Biotechnology JSS Arts. Commerce and Science

College, Mysore

SEPT-2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Value addition of Spices using Plantation products' is a bona fide work carried out by Ms. SUPRIYA T (Reg.no. JBT18040) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology under University of Mysore during the year 2018 - 2020.

GUIDE:

Dr. B'B BORSE

Prof. AcSIR, Sr. Principal Scientist, Department of Spice and Flavor Science (SFS) CFTRI-Mysore

Examiners:

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-

Lechnology

S Dept of Fibre :: hallogy

. Callege of 4 to Commerce & Scin

Boty Rend, Mysure 570 025

Prof. H.C.Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College at Arts, Commerce & Science Only Row \ MYSURU-25

Homology Modelling, Molecular Docking of non-structural protein 13 of Severe Acute Respiratory Disease Coronavirus-19

(COVID-19)

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Ms. M SUSHMA Reg. No.JBT18041 IV Semester

Under the guidance of

1) Mr. Vivek Chandramohan Assitant Professor Department of Biotechnology, Siddaganga Institute of Technology, Tumkur.

2) Dr. B. Y. Sathish Kumar
Assistant Professor And Head
Postgraduate Department of Bio-Technology

SEPTEMBER 2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Homology Modelling, Molecular Docking of nonstructural protein 13 of Severe Acute Respiratory Disease Coronavirus-19 (COVID19)' is a bonified work carried out by Ms. M Sushma (Reg.no. JBT18041) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE: Mr.Vivek Chandramohan

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar 184. Avile

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Technology

PS Book of Rietz:moulogy

& College of A.ts. Lummerce & Science

Buty Roud, Mysnie 570 975

Examiner

Place: Mysore

Prof. H.C.Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

JSS College of Arts, Commerce & Science Only Road, MV SURU-25

Antimicrobial activity of Grewiaorbiculata (bark of tree)

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Priyadarshini. H

Reg. No. JBT18029

IV Semester

Under the guidance of

Dr. Rekha N D

Assistant Professor

PG Department of Biotechnology, JSS college of Arts, commerce and Science, Ooty Road

Mysuru.

September-2020

JSS Mahavidyapeetha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade &College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

This is to certify that the dissertation entitled "Antimicrobial activity of Grewiaorbiculata (bark of tree)" submitted to the JSS College of Arts, Commerce and Science by Ms. Priyadarshini. H (Reg.no. JBT18029) under the guidance of Dr. Rekhan.D., for the partial fulfillment of the requirement of the award of the degree of Master of Science in Biotechnology during the year 2019-20

GUIDE: Dr. Rekha N. D

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar Assistant Professor and Head

Postgraduate Department of Bio-

Bond of Rietz shology

1 & E Callage of A.ts. Commerce & Science

Boty Stend. Mernen 5711 1175

Examiners:

1. MBhO

2. Resule 11.0

24/2/2020

Dr. H C Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Culmerce & Science Only Road, MYSURU-25

Homology Modelling, Molecular Docking of non-structural protein 16 And 10 of Severe Acute Respiratory Disease Coronavirus-19 (COVID-19)

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. SHIVAPRAKASH M S

Reg. No JBT18038 IV Semester

Under the guidance of

Mr. VIVEK CHANDRAMOHAN

Assistant Professor Department of Biotechnology, Siddaganga Institute of Technology, Tumkur

Dr. B. Y. SATHISH KUMAR

Assistant Professor and Head Postgraduate Department of Bio-Technology, JSS College of Arts, Commerce & Science, Ooty Road, Mysore

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Homology Modelling, Molecular Docking of nonstructural protein 16 And 10 of Severe Acute Respiratory Disease Coronavirus-19 (COVID-19)' is a bonified work carried out SHIVAPRAKASH M S (Reg.no.JBT18038) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE: Mr. Vivek Chandramohan.

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

Book of the Department

PE Bept of Riote:houlogy

| College at A.ta, Lummyrce & Science

Saty Road, Mysura 570 025

Prof. II C Honnappa

Principal, JSSCACS

Ooty road Mysore - 25.

J6S College of Arts, Cultimerce & Science Ooky Road MMSURU-35

Examiners:

Place: Mysore

Date: 21 - 09 - 20

Abiotic Stress Tolerance in Crop Plants

Dissertation Report

Submitted in partial fulfillment of the requirements for the award of the degree

Master of Science in Bio-Technology

To

Postgraduate Department of Bio-Technology



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSURU -570025



Submitted by

Ms. Sahana Taskeen

Reg. No. JBT1037

IV Semester

Under the guidance of

Mr. Vasanth Patil H.B M.Sc., BTFS., KSET

Assistant Professor
PG Department of Studies and Research in Bio-Technology
JSS College, Ooty Road, Mysuru-25
September- 2020

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



Postgraduate Department of Bio-Technology CERTIFICATE

Certified that project report entitled 'Abiotic Stress Tolerance in Crop Plants' is a bonafide work carried out by Ms. SAHANA TASKEEN (Reg. no. JBT18037) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology Prescribed by University of Mysore during the year 2019 - 2020

GUIDE:

Mr. Vasanth Patil H.B.

Assistant Professor

PG Department of Bio-Technology

Examiners:

2

Place: Mysore

Date

Assistant Professor and Head

Postgraduate Department of Bio Technology

PG Dept of Riots moulegy

& & College of A to Committe 9 Science

Sety Baud, Mysura 570 028

C.Honnappa

Principal, JSSCACS

Octy Road, Mysore - 25. PRINCIPAL JSS College of Arts, Commerce & Science Octy Road MYSURU-25

Dissertation on

"Green synthesis of nanoaparticles and preparation of hydrogels using cocoon extract: Its anti-microbial activity"

Sub topic:

PREPARATION OF DIFFERENT HYDROGELS USING COCOON EXTRACTS AND GREEN SYNTHESIS OF ALVERA-SERICIN SILVERNAOPARTILCES: ITS ANTI-MICROBIAL ACTIVITY

> Dissertation Submitted to the

Post Graduate Department of Biotechnology

JSS college of Arts, Commerce and Science

In partial fulfillment of requirements for the award of Master of Science (M.Sc) degree in Biotechnology, University of Mysore

Submitted by: Shruti Halemani Register No. JBT18039

Under the Guidance of

Dr. Ravindra Scientist-C CSRTI, Mysore Dr. B. Y. Sathish Kumar

HOD Dept. of Biotechnology

JSS Arts, Commerce and Science

College, Mysore



Work carried out at

CENTRAL SERICULTURAL RESEARCH AND TRAINING INSTITUTE
CENTRAL SILK BOARD, MINISTRY OF TEXTILES, GOVERNMENT OF INDIA
SRIRAMAPURA, MANDAVADI ROAD, MYSURU - 570008

September-2020

केंद्रीयरेशमउत्पादनअनुसंधानप्रशिक्षणसंस्थान Central Sericultural Research and Training Institute

[ISO 9001-:2008 certified]

/ केंद्रीय रेशम बोर्ड-वस्त्र मंत्रालय-भारत सरकार) मनदावदी रोड. श्रीरामपुरा. मायस्र - 570008



/ Central Sith Board-Min. of Textiles-Covt. of India) Manandavadi Road, Srirampura, Myouru-570008.

http://www.csrlimes.res.in

CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of nanoaparticles and preparation of hydrogels using cocoon extract: its anti-microbial activity" is carried out by Shruti Halemani student of final year M.Sc., Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science Mysuru, for the partial fulfillment for the award of degree of Master of Science in Biotechnology under the University of Mysuru. This is a record of original research work done under my guidance and supervision. We further certify that this dissertation work has not been the basis for the award of any degree, diploma, associate ship are similar title.

Date: 21/09/12020

Place: Mysuru

Dr. RAVINDRA

Scientist-C

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSURU -570025



CERTIFICATE

I hereby certify that the project work entitled, "Green synthesis of nanoaprticles and preparation of hydrogels using cocoon extract: its anti-microbial activity" is carried out by Shruti Halemani student of final year M.Sc., Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science, Mysuru, for the partial fulfillment for the award of degree of Master of Science in Biotechnology under the university of Mysuru is the result of bonafide research work carried out by her under the guidance of DR. RAVINDRA. Scientist-C. Central Scriculture Research and Training Institute (CSRTI), Govt, of India, Mysuru during the period from January-2020 to April 2020.

I also declare that this team work has not been submitted to any another University or institutions for the award of any degree.

Dr. Ravindra Aurade

Scientist-C.

CSR-TI, Mysore.

Examiner.

2. Paris N. D

26/7/2020

Date: 21/09/2020

Piace: Mysore

Dr.B. Y. Sathish kumar

Assistant professor and Head

PG Department of

of Rietz:nnology

4 8 College of A.ts. Commerce S

Both Yead, Mysers 578 021

H. C. Honnappa

Principal, JSSCACS

Ooty Road, Mysuru-570025 PRINCIPAL

USS Catego of Arts. Cummerce & Science Only Rise + ALYSKITU-25





VALUE ADDITION OF SPICES USING PLANTATION PRODUCTS

Project work

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of

Mysore

Submitted by

Ms. SUPRIYA T

Reg. No. JBT18040

IV Semester

Under the guidance of

Dr. B B BORSE

Prof. AcSIR, Sr. Principal Scientist, Department of Spice and Flavor Science (SFS) CFTRI-Mysore Dr. B.Y. Sathish Kumar

HOD Dept. of Biotechnology JSS Arts, Commerce and Science College, Mysore

SEPT-2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous, NAAC 'A' Grade & College with Potential for

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Value addition of Spices using Plantation products' is a bona fide work carried out by Ms. SUPRIYA T (Reg.no. JBT18040) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology under University of Mysore during the year 2018 – 2020.

GUIDE:

Dr. B B BORSE

Prof. AcSIR, Sr. Principal Scientist, Department of Spice and Flavor Science (SFS) CFTRI-Mysore

Examiners:

1. Resolvento 2. 20/ 9/2020

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

regional analysis and a

Bots Roud, Mysura 570 025

ProfilH.C.Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS Coffeye of Arts, Currentoe & Science Octy Roan MVSURU-25



CERTIFICATE

I, hereby declare that the project titled "Value addition of spice plantation products", submitted by Supriya T for partial fulfilment requirements for the Master's degree in Biotechnology JSS College Commerce and Science Ooty Road, Mysore is the result of the project by her in Department of Spice and Flavour Science, CSIR-Control Technological Research Institute, Mysore under my guidance.

Date: 18.09.2020

Place: Mysore

Dr. B B Borse

odl

Sr. Principal Scientist & former head

SFS, CSIR-CFTRI

Mysore- 570020



Dissertation on

"Green synthesis of nanoaparticles and preparation of hydrogels using cocoon extracts: its anti-microbial activity"

Sub title: Green synthesis of silver Nanoparticles using different extracts of Cocoon: its Anti-microbial activity.

Dissertation

Submitted to the

Post Graduate Department of Biotechnology

JSS College of Arts, Commerce and Science

In partial fulfillment of requirements for the award of Master of Science (M.Sc) degree in Biotechnology of University of Mysore

Submitted by:

Ms. POOJA S Nyamagoud

Register No. JBT18026

IV Semester

Under the guidance of

Dr. Ravindra Scientist-C CSRTI, Mysore

Dr. B. Y. Sathish Kumar
HOD Dept. of Biotechnology
JSS Arts, Commerce and Science
College, Mysore
Ucpurtman

PS Dept of Riots:modely

& College of A.ts. Commerce & Science

Bety Read, Mysica 570 078



Work carried out at

CENTRAL SERICULTURAL RESEARCH AND TRAINING INSTITUTE CENTRAL SILK BOARD, MINISTRY OF TEXTILES, GOVERNMENT OF INDIA SRIRAMAPURA, MANDAVADI ROAD, MYSURU - 570008

September-2020

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

I hereby certify that the project work entitled, "Green synthesis of nanoaparticles and preparation of hydrogels using cocoon extracts: its anti-microbial activity" is carried out by Pooja S. Nyamagoud student of final year M.Sc., Postgraduate Department of Biotechnology, JSS college of Arts, Commerce and Science, Mysuru, for the partial fulfillment for the award of degree of Master of Science in Biotechnology under the university of Mysuru is the result of bonafide research work carried out by his under the guidance of Dr. RAVINDRA., Scientist-C, Chemistry Laboratory, Central Sericulture Research and Training Institute (CSRTI), Govt, of India, Mysuru during the period from January 2020 to April 2020.

I also declare that this team work has not been submitted to any another University or institutions for the award of any degree.

Dr. Ravindra Aurade

Scientist-C.

CSRTI, Mysione

Examinar, 1

Karly W.

Place; Mysuru

24/9/2020

Dr. B. V. Sathish kumar

Assistant professor and Head

PG Department of Biomechatehogyment

PG Dept of Rietz:hnulogy

. G & College of & to, Commerce & Science

Dr. H. C. Houldtopa Strang 570 1321

Principal, JSSCACS

Ooty Road, Mysuru

proje ul Arts, Cummerce & Science

Octy Road MYSURU-25

Nanotechnology-based systems for the treatment and prevention of HIV/AIDS

Project Report

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. RANJITHA T.M

Reg. No. JBT18034

IV Semester

Under the guidance of

Mr.ABIGNAN GURUKAR

Designation

September - 2020

JSS Mahavidyapretha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Nanotechnology-based systems for the treatment and prevention of HIV/AIDS' is a bonified work carried out by Ms. RANJITHA T. M (Reg.no. JBT18034) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 2020.

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Technology

PE Dept of Riote:mulogy

I & B College of A.ts, Commerce & Science

Boty Roud, Mysorn 53th 075

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25. JSS Catego of Arts, Cultimerce & Science Only Rose 1 NYSURU-25

Examiners:

Place: Mysuru

Date:

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'DRUG MANAGEMENT FOR NOVEL CORONAVIRUS (COVID-19)' is a bonified work carried out by Mr. KIRAN K (Reg.no.JBT18013) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE:

Dr. Mallikariun B Chougala

PG Department of Biotechnology

Examiners:

1

2.

Place: Mysore

Date:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department and Chitter Pethnology

PS Dept of Riote mulogy

& A College of A.ta. Cummerce & Science

Boty Road, Mysorn 570 075

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Cultimerce & Science Oolly Rop-1 MYSURU-25

COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSORE -570025

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
PG DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that project report entitled 'CLINICAL STUDY TO EVALUATE SAFTEY AND EFFICAC OF DERIVATIVE OF D-GLUCOPYRANOSIDE IN SUBJECTS WITH TYPE-II DIABETES MELLITUS.' is a bonified work carried out by Ms. SHREYALI TEJANNAWAR (Reg.no. JBT17030) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2018–19.

GUIDE:

Mrs. Sonika Handae
 Zetalix solutions

2. Dr. B. Y. Sathish Kumar Head Postgraduate Department Bio-Technology Dr. B. Y. Sathish Kumar Head Postgraduate Department

Ooty Road, Mysore 5:0 925

Signature of the Guide

Examiners:

1. flen. F.B

2,

Place: Mysore

Date:

Prof. M. Mahadevappa

Principal, JSSCACS

POntyroad, Mysore - 25.

J. S. S. COLLEGE

Ooty Road, Mysore-570 025

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Preparation and characterization of silk fibroin and mulberry leaf exyract hydrogel(SFMLEH)'is a bonified work carried out by Mr. Pramod N Komar (Reg.no. JBT18028) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 – 20.

GUIDE:

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Denarmont of Biomicochnology

PG Dept of Rich modely

4 & College of A.ta. Commisse & Science

Daty Rend, Mysura 570 025

Examiners:

1. Menson

2. Kodelnous

Place: Mysore

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Currentre & Science Only Rop-1 MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Tricoderma spicies role in Biocontrol Mechanism' is a bonified work carried out by Ms. Raksha. P (Reg.no. JBT18031) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 – 2020.

GUIDE: Dr Rekha.N.D

Assistant Professor

Postgraduate Department of Bio-Technology Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Technology

PE Dept of Riots:mology

1 6 8 College at A.ta. Cummuice & Sciane

Boty Russ, Mesora 570 025

Examiners:

1. Neway

24/q/2020

Place: Mysore

Date 21/09/2020

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road Mysper - 25.

JSS College of Arts, Continence & Science Only Rossi, MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Certified that project report entitled "CURCUMIN NANOPARTICLES AND ITS APPLICATIONS" is a bonified work carried out by Ms. NIVEDITHA P (Reg.no.JBT18022) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019–20.

GUIDE:

Dr. Mallikarjun B Chougala

Assistant professor

PG Department of Biotechnology

Examiners:

1.

2

Place: Mysore

Date: 21 9 2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Fiechnology

P6 Dept of Cieig annelogy

16 College of n. ts. Commerce & Science

Both Sawa, Mysora 570 025

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25

JSS College of Arts, Currinerce & Science Octy Rose MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade &College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

report entitled 'CHITOSAN NANOPARTICLES: Certified that project PREPARATION, CHARACTERIZATION AND APPLICATIONS'isabonified work carried out by Ms. PALLAVLS(Reg.no. JBT18023) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE:

Dr. Mallikariun B Chougala

Assistant professor

PG Department of Biotechnology

Examiner

Place: Myso

Date: 21 09 2020

Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PG Dept of Riots:haulogs

A S & College of A.ta. Lummurce & Science

Buty Road, Mysers 5217 1196

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road Mysore - 25.

JSS College of Arts, Custmerce & Science Ooty Road MYSURU-25



PREPARATION AND CHARACTERIZATION OF GARLIC EXTRACT BASED PECTIN BIO-COMPOSITE MULTIFUNCTIONAL PACKAGING FILMS

A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR THE

DEGREE OF

MASTERS IN SCIENCE

IN

BIOTECHNOLOGY

SUBMITTED BY CHATHUR K.N JBT18004

UNDER THE GUIDANCE OF

Dr. KESHAVA MURTHY P.S

JUNIOR SCIENTIST

FOOD PACKAGING DEPARTMENT, CSIR-CFTRI, MYSURU, 570020

SUBMITTED TO



DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD MYSURU - 25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "CURCUMIN NANOPARTICLES AND ITS APPLICATIONS" is a bonified work carried out by Ms. NIVEDITHA P (Reg.no.JBT18022) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-20.

GUIDE:

Dr. Mallikarjun B Chougala

Assistant professor

PG Department of Biotechnology

Examine

Place: Mysore

Date: 21 9 2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

FG Dept of Pioto:mology

A College of A.75 Commerce 9 Science

Bety Roud, Mysure 578 028

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25 pRINCIPATE & Science pRINCIPATE & Science pRINCIPATE & SCIENCE JSS College of Arts. GUYSURU-25 Ooty Road WYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "POLYCYSTIC OVARIAN SYNDROME (PCOS)" is a bonified work carried out by Ms. PUNITHA S (Reg.no. JBT18030) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 2020.

GUIDE: Dr REKHA N.D.

Y. SATHISH KUMAR

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PG Dept of Riota mulogy

College of A to Lummurce & Science

Boty Your Myster o 11 1125

Name & Signature of the Guide

Examiners

Place: Mysuru

Date: 21 |09 |2020

MONNAPPA

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, Cultimeros & Science Qofy Road MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Biocontrol of Fusarium oxysporum f. sp. cubense causing Banana wilt disease' is a bonified work carried out by Ms. Vyshali M T (Reg.no. JBT18043) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 - 20.

GUIDE: Dr. Rekha N. I

Assistant Professor

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Technology

PG Dept of Rietz:hnulogy

& B College at A. ta, Commerce & Science

Boty Soud, Mysors 570 028

Place: Mysore

Dr. H C Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

ISS Coffeye of Arts, Cummerce & Science Octy Rob MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "Antimicrobial and Antioxidant activity of the biosynthesized silver nanoparticles from Ocimum sanctum leaf extracts" is a bonified work carried out by Mr Vivekananda A jedar (Reg.no. JBT18042) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2020.

CUIDE

Dr. B.V. Carlot burner

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio Technology

PG Dept of Rietz:mology

8 & College at A.ts. Commerce & Science Boty Road, Mysors-570 028

Examiners:

40

out al amo

Prof. H. C .Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

JSS College of Arts, Countrier & Science Only Reservity Stuff U-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade &College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Biosynthesizing of silver nanoparticles from mulberry leaf extract and evaluating its antimicrobial activity' is a bonified work carried out by Mr.Sachith .A.M (Reg.no. JBT18035) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019 – 2020.

GUIDE: Dr.Madhusudhan.K.N

Dr. B. Y. Sathish Kumar - Q. Y. St. X

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Biom Echnology

PE Dept of Right moulogy

1 & B College at A.ta, Lummerce 9 Science

Bets Road, Mysore 570 075

Name & Signature of the Guide

Examiners:

1. 1

2

24/9/2020

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arta, Culumerce & Science Only Road, MVSURU-25



Silkworm Molecular Biology Laboratory Central Sericulture Research and Training Institute Central Silk Board, Ministry of Textiles, Govt. Of India, Mysuru, Karnataka 570008

Dr.Madhusudhan K.N Scientist-D Email:madhu31us@gmail.com

CERTIFICATE

This is to certify that the Project work entitled "Synthesis and characterization of combined silk fibroin, chitosan and turmeric extract hydrogel and evaluation of its antibacterial potential" was carried out by Ms. Poornima, B. Reddi, Reg. No JBT18027 Student of Master of Science in Biotechnology from JSS college of Arts, Science and commerce, Ooty road, Mysuru under my guidance and supervision at Central Sericulture Research and Training Institute, Mysore for the duration of Three months project that is from January, 2020 to March, 2020. This work was carried out by her in partial fulfilment of the requirements for the award of Master of Science in Biotechnology.

(DR. MADHUSUDHAN, K.N.)

Scientist D (Research Supervisor)

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "Synthesis and characterization of combined silk fibroin, chitosan and turmeric extract hydrogel and evaluation of its antibacterial potential" is a bonified work carried out by Ms. Poornima, B. Reddi (Reg.no. JBT18027) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2020

GUIDE:

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PG Dept of Riote :noulogy

I & & College of A.ts. Lummerce 5 Science

Daty loud, Mysure 5.0 025

Examiners:

1. marsoft

2. Recens No

Place: Mysore

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

USS College of A. a. Commerce & Science Only Repres MY 11 1 25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Synthesis of silver nanoparticles using Fenugreek leaf extract and their biological activity (In vitro)' is a bonified work carried out by Ms. Jyotsna Pathade (Reg.no. JBT18008 in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2020

GUIDE:

N.y. Shix Name & Signature of the Guide

Place: Mysore

Date: 21/ 9/2020

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department Properties Technology

PG Dept of Lieus madegy

Callege of 4.7% Commerce 9 Science

Buty House Mounts 5711 1275

DR. H.C Honnappa

Principal, JSSCACS



Clarette Biotech P. Ltd 1st Floor, Swamy Arcade Bogadi Ring Road Jn, Ph.9606371550 info@clarettebio.com

clarettebio.com

CERTIFICATE

This is to certify that, <u>Ms. Jyotsna Pathade</u> a student of M.Sc.(Biotechnology), JSS Arts, Commerce and Science College, Ooty Road, Mysuru. Has successfully completed internship program on "Synthesis of silver nanoparticles using fenugreek leaf extract and their biological activity (*In vitro*)". During the period of her internship with us, she was found punctual, hardworking and inquisitive.



Name & Signature of the

Project Co-ordinator

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Biocontrol of Fusarium oxysparum f.

sp. cubense causing Banana wilt disease' is a bonified work carried out by

Ms. Vyshali M T (Reg.no. JBT18043) in partial fulfillment of the
requirements for the award of Master of Science (M.Sc.) degree in

Biotechnology of University of Mysore during the year 2019 – 20.

GUIDE: Dr. Rekha N. D

Assistant Professor

Roberts DA. D.

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Rio Tachnology

PS Dept of Riots Inclose

& & E College of A.ts. Lummerce & Science

Betr Baud, Mysure 570 025

Examiners:

1.

2. Reduce 200

Place: Mysore

Dr. H C Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL THE SOUNCE ONLY ROPE MY SUPERIS

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "ANALYTICAL INSTRUMENTS AND TECHNIQUES USED IN ANIMAL ORIGIN FREE RECOMBINANT PROTEIN ANALYSIS" is a bonafied work carried out by Mr. SRINIVASA S (Reg.no. JBI19010) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt, of India.

Examiners:

1. 184 J.P. Valudora 2. B.Y. SALiXe

Place: Mysore

Date

Dr. B.Y. Sathish Kumar

Co-ordinator, JSS BiSEP

Assistant Professor and Head,

PG Dept. of Bio-Technology

Principal, JSSCACS,

Ooty road Mys

Ooky Road MYSURU-25

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'Analytical Microbiology techniques in Food Industry ' is a bonafied work carried out by Mr. S G Preetham (Reg.no. JB19007) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

GUIDE:

Examiners

1. 15m-S.P. volled wa 2. B.y. Etc. Ku

Place: Mysore

Date

Dr. B.Y. Sathish Kumar

R.4. SAZ

Co-ordinator, JSS BiSEP Assistant Professor and Head.

PG Dept. of Bio-Technology

Ooty road, Mysore 25.

Ooty Road MYSURU-25

(An Autonomous College of University of Mysore)

MYSORE -570025



JSS Biotechnology Skill Enhancement Programme Postgraduate Department of Biotechnology CERTIFICATE

Certified that project report entitled 'Mammalian Cell Culture in Large Scale Bioreactor for Monoclonal Antibodies Production' is a bonafied work carried out by Ms.Mrinal Patil (Reg.no. JBI19006) in partial fulfillment of the requirements for the award of the degree of Postgraduate Diploma in Protein Expression and Scale-up under Biotechnology Skill Enhancement Programme sanctioned and supported by KTech, Govt. of Karnataka & DBT, Govt. of India.

GUIDE: Mr. Poornachandra Nagineni

The orthographer

Co-ordinator, JSS BiSEP Assistant Professor and Head, PG Dept. of Bio-Technology

1. B. Herron & Senger 2. B.y. Stelle

Place: Mysore

Principa JSSCACS

Ooty road, Mysore - 25.

Ooty Rop !

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that Dissertation report entitled "MIMOSA PUDICA: A Potential Herbal Panacea" is a bonified work carried out by Ms. BHAVANI K.I (Reg.no. JBT19007) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE:

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PG Dept at Ricia Inveloge

A & College ut a ta Lammerre & Science

Boty Road, Mysure-570 U25

Examiners:

Dr. Mallikarjun B Chougala

Prof. H. C. Honnappa Principal, JSSCACS

Ooty road, Mysore - 25, PRINCIPAL PRINCIPAL Scotte of Arts, Currence & Scence Ooty Rop : UVSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'REVIEW ON DIABETES MELLITUS' is a bonified work carried out by Ms. Girija S Badigannavar (Reg.no. JBT19011) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: X

Ms. Rekha.N.D

Assistant Professor

PG Department of Biotechnology

Dr. B. Y. Sathish Kumar

R.Y. SALX

Assistant Professor and Head

Postgraduate Department of Bio-Technology

Boud of 10s (repartment)

PS Dept of Right moulege

A B.B. College of 4 ta, Lummerre & Science

hets Boud, Mysura-570 UZ\$

Place: Mysore

Examiners:

Dat 7/9/21

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

PRINCIPAL

JSS CoRpyt of Arts, Guarrieres & Science

Ogly Roman National Publications

Ogly Roman

JAN Mahavidy spectly

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE 570025



CERTIFICATE

Certified that project report entitled 'A REVIEW ON GOLDEN RICE' is a bonifled work carried out by Ms.Akshatha. B (Reg.no. JBT19005) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE:

Dr. Mallikarjun B. Chougala

Assistant Professor

PG Department of Biotechnology

R.4. 84 1

Assistant Professor and Head

Postgraduate Department of Bio: Technology

th Dept of Rusts minimized. h & & Callege of A. ta. Completon S. Segration

Body Naud, Matter fert 1996,

1. Sy SAL K

Place: Mysore

Date: 20 7/09/2021

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25

PRINCIPAL

JSS Cotto of Arts, Cultimeter & Science Goly Ros - MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING' is a bonified work carried out by Ms. ASMA. D B (Reg.no. JBT19004) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: Dr. B. Y. Sathish Kumar

13.4. CALX

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

R.4.892-1

Pe Technology

A B B College of A ta, Commerce & Science

Daty Read, Mysers-570 075

Examiners:

Place: Mysore Dat: 7 9/21 Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore ± 25 JSS College of Arts, Commerce & Scanic Ooly Road, UNSURU-15

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

[Autonomous, NAAC 'A' Grade & College with Potential for Excellence]

Ooty Road , Mysuru- 570025



CERTIFICATE

Certified that project report entitled 'Evaluation of Biological activities from the methanolic extracts of Morus alba leaves' is a bonified work carried out by Ms. Rakshitha. D. G (Reg. No. JBT19029) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru during the year 2020-2021

GUIDE: Dr. Satish L.

Examiners:

Name & Signature of the Guide:

Dr. B. Y. Sathish Kumar

R.Y. Stuit

Assistant Professor and Head

Postgraduate Department of Bistechnoisgy

PG Dent of Riote muslogs

A.A. College of 4 to Commerce 5 S

Baty Houd, Myssire, 570 07.8

Prof. H. C. Honnappa

Principal, JSSCACS

USS College of Arts, C. America Ooly Rop : MVSURU

Place: Mysuru

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC ,A Grade and College with Potential for Excellence)

OOTY ROAD, MYSORE- 570025



CERTIFICATE

Certified that project report entitled "A REVIEW ON FOLIAR DISEASES OF MULBERRY" is a bonified work carried out by Ms. SHEEBU SAMARAN (Reg. no. JBT19034) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

B. Y. Saturh Kuman 2. B. Y. Sodwich Kuman Suker of gride GUIDE

Dr. Satish. L. Scientist C.

Department of Molecular biology

Lab L.

CSRTI, Mysuna.

Place: Mysore Date: Q

Dr. B.Y.Sathish Kumar

Assistant Professor and Head Postgraduate Dept of Biotechnology 75 Dept of Biotechnology

College - 1's Commerce 9 Science Germann Merger in bereit.

Prof. H.C. Honnappa

Principal, JSSCACS Oory Road,

Mysore-25

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान Central Sericultural Research and Training Institute

बर्गा रहम बार Central Silk Board ugest struct Govt. of India





चीरामपुरा, सानद्वातो संस Sciencepure, Massandaviada Road. ### MYSCHEL - 570 000

CERTIFICATE

This is to certify that the dissertation entitled "A REVIEW ON FOLIAR DISEASES OF MULBERRY" is a bonafide Dissertation work carried out by Ms. SHEEBU SAMRAN. Postgraduate student, Department of Biotechnology, JSS College of Arts, Commerce &Science, Octy road Mysuru, under my guidance and supervision in partial fulfillment of the requirement for the degree of Master of Science in Biotechnology.

Date

Place Mysore

Guide:

Dr. Satish .L.

Scientist C

Department of Molecular Biology

CSRTI, Mysore

Co-guide:

Dr. Kusuma, L.

Scientist C

Department of Molecular Biology

CSRTI, Mysore.

सभी पत्राचार निरेशक के नाम से भेजें /AS Correspondence should be addressed to the Director

gram Telephone (8821-2362406, 2362440, 2362157 (Septem (December) CONTRA ONLOGICANIST OFFICERS SOCIEDA S

dungs Website : curtimys.res.in

3

JSS Mahavidy speeths

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Cerufied that project report entitled 'GENERAL INDUSTRIAL TRAINING IN PROBIOTICS' is a bouified work carried out by PUNEETH S.D. (Reg.no. JBT19028) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21

GUIDE: Dr. B. Y. Sathish Kumar

RY. SAL X Name & Signature of the Guide

Examiners:

Place: Mysore

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

BOIOT Rietz Teniogs

CE College of & to Lamberry & Scien

Dets feud, abernet 5 4 075

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Och Ros WYSURU-15

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that Dissertation report entitled "CURCUMIN AND HEALTH" is a bonified work carried out by Ms. SAHANA H.M (Reg.no. JBT19031) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE:

Dr. Mallikarjun B Chougala

Dr. B. Y. Sathish Kumar Assistant Professor and Head

(1.4. ST)

Postgraduate Department of Bio. Technology

PG Bept of Rietz mailogy

A & B College at A ta Lummere & Science

Boty Roud, Mysure-570 028

Examiners:

Place: Mysore

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysor, 25.

ISS Categor of Arts. Cultimerce & Science Body Ros v MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

his is to certified that the dissertation entitled 'MOLECULAR MECHANISM OF INTI-ANGIOGENESIS IN CANCER AND TREATMENT' is a bonified carried out W Ms. AKSHATHA S U (Reg. No. JBT19003) in partial fulfillment of the requirements or the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-2021.

SUIDE: Dr. REKHA N D

Lalda MD

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PS Best of Rists mulogy

& College of A to Lammerte S Science

Bety Beut, Mysurs 574 025

lace: Mysore

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

ISS Code of Ars. Currente & St. Ooty Ros. WYSURU-25

JSS Mahavidyapeetha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

This is to certify that the dissertation entitled "Hypothyroidism" submitted to the JSS College of Arts, Commerce and Science by Ms. Shruti, Bhagawant, Korav (Reg.no. JBT19035) under the guidance of Dr. Rekhn N.D., for the partial fulfillment of the requirement of the award of the degree of Master of Science in Biotechnology during the year 2020-21

GUIDE: Dr. Rekha N. D

Dr. B. Y. Sathish Kumar Assistant Professor and Head Postgraduate Department of Bio-

1.4. Aike

Technology

Name & Signature of the Guide

1. Meached.

2. By SALV

Place: Mysore

Dr. H C Honnappa Principal, JSSCACS Ooty road, Mysore - 25.

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'A REVIEW ON EFFECT OF STRESS ON HEALTH' is a bonified work carried out by Ms. Shruti. S.G (Reg.no. JBT19036) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

Ms. Rekha.N.D

Assistant Professor

PG Department of Biotechnology

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Departmell of High Technology

PS Dent et Cieta meniogy

. 4 & Calings of a to Committee 9 Science

have more sharper to g and

1. Cleacher Y

Prof. H. C. Honnappa Principal, JSSCACS

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'A REVIEW ON CULTIVATION OF MUSHROOM AND THEIR MEDICINAL PROPERTIES' is a bonified work carried out by Ms TEJASHWINI K (Reg.no. JBT19039) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-2021

GUIDE: ^

Mr. Vasanth Patil H

Assistant professor

P.G Department of Bio-Technology

B. Y. SALike

Assistant Professor and lilead

Postgraduate Department Bian Banhnology

, & & College of a to Committee 9 Science

Baty Imic Mission (71) 1178

1. St. X.

Place: Mysore

Date:

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

100 Matintely aspection

199 COLLEGE OF ARTS, COMMERCE AND SCIENCE

(catomonious, %), c.f. 'A' Grade & College with Patential for Excellence) COSTY MOND, MYSORE-570035



CERTIFICATE

Certified that project report emidded "GENERAL PROESTRIAL TRAINING DV PROBSOTICS" is a position work earliest out by Mr. Bhurath H M (Reg.m. 1871)9965 in partial fulfillment of the emplements for the award of Muster of Science (M.Se.) degree in Biotechnology of University of Mysore during the year 2026-21.

CERNS: Dr. R. V. Sathish Kamar

11 m K-

Same & Signature of the Guide

Examinery

Plane: Mysore

Dr. R. Y. Sathish Kumar

1.4. SAL X

Assistant Professor and Head Postgraduate Department of Bio-

Mint intelle fictor ment

Ph Begt of Plate Implogs

Prof. H. C. Hounappa

Principal, JSSCACS

Ooty road, Mysore - 25. PRINCIPAL SS Caleys of Arts, Cusmerte & Science Ooty Pop 1 MY SIJRU-25



AN ISO 9001;2015 CERTIFIED COMPANY

CERTIFICATE

his is to certify that Mr.Bharath HMM.Sc Biotechnology, student of JSS College of Arts ommerce and Science has successfully completed One month "GENERAL INDUSTRIAL RAINING" in our organization.

He deserves all encouragement.

We wish him all the best in her career.

or Triphase Pharmaceuticals Pvt Ltd

Leliber

BHILASH PRAKASH

A/QC LEAD

Folallastrial IRFANULLA SHARIEFF

CHIEF SCIENTIFIC OFFICER



No Special 3, Property No 482, KSSIDC Industrial Estate, Kasaba Hobli, Hebbal, Mysore-570 016, F Operations +91-821-4191022Imfo@triphasepharma.com/ www.triphasepharma.com/





JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled ISOLATION AND CHARACTERIZATION OF PROTEASE PRODUCING BACTERIA, is a bonified work carried out by DEVIKA M (Reg no JBT19010)in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-2021

GUIDE:

Dr.Madhusudhan K N

2. Dr.B.Y.Sathish Kumar 7 M. C

Name & Signature of the Guide

R.Y. SALY

Assistant Professor and Head

Postgraduate Department of Bio-Technologicpartment

PG Dept of Riste mulogy

L 9 E College at 4 to Commerce 9 Science

Berly love Menor to private

Examiners:

Prof. H. C. Honnappa

PRINCIPAL

JSS Coffese of Arts, Contractor & Science
Only Rop : MYSURU-25



Silkworm Molecular Biology Laboratory Central Sericulture Research and Training Institute Central Silk Board, Ministry of Textiles, Govt. Of India, Mysuru, Karnataka 570008

Dr.Madhusudhan K.N Scientist-D madhu3 lus@gmail.com

CERTIFICATE

This is to certify that the Project work entitled ISOLATION AND CHARACTERIZATION OF PROTEASE PRODUCING BACTERIA"was carried out under my guidance and supervision at Molecular Biology Laboratory-2, Central Sericultural Research and Training Institute, Mysore for the duration of three months project. This work was carried out by her in partial fulfillment of the requirements for the award of Master of Science in RIOTECHECHNOLOGY

madlundhara 108/2024 (DR.MADHUSUDHAN K N)

Scientist D

(Research supervisor)

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING ' is a bonified work carried out by Ms. VARSHITHA.V (Reg.no. JBT19041) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: Dr. B. Y. Sathish Kumar

1.4.8A. X.

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar Assistant Professor and Head Postgraduate Department of Bio-

PG Dealicahmology

& College of a fa Lummeire 9 Science Bety touc. Mysure 570 026

1. There has Examiners

Place: Mysore

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING IN PROBIOTICS' is a bouified work carried out by Mr. Puncet Hegde (Reg.no. JBT19027) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: Dr. B. Y. Sathish Kumar

1.4.gr. L Name & Signature of the Guide

Examiners:

1.

2.

Place: Mysore

B.4. St. X Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

Booknology/cparlment

PS Best of Riote:movings

LGS College of A to Lummerce 9 Science

Betr iteuc, Menuta 1-70 075

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

JSS College of Arts, C., Imerce & Science Octy Rop : UVSURU-15 PRINCIPAL

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE ~570025



Certified that dissertation report entitled 'Isolation and Identification of Pathogenic Bacteria from Vegetables and Household' is a bonified work carried out by Mr. MALVEYA MANISH (Reg.no. JBT19014) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology under University of Mysore during the year 2019 - 2021.

Gang Henry Dr. GARGI MEUR, Scientist D. 26/8/2621 Clinical Epidemiology Division ICMR-National Institute of Hutcition Missistry of Health & Family Wotland (MolH Vo. June Occomo PO, Tomella, Hydershad 500 007

Dr. Gargi Meur. Scientist 'D' Department of Clinical Epidemiology

National Institute of Nutrition (ICMR-

NIN), Hydernbad.

Examineral

Place: Mysor

Head of the Biggs were

PG Dopt of Binta Dunlagy

4 66 Aphenialitetericinggeren fi Seine AssistaRetty (Tout a Massery & 1) D21

Postgraduate Department of Bin-Technology

Prof. M. Honnappa

Principal, JSS College of Arts Commerce

and Sciences

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'SYNTHESIS AND MECHANISM OF ANTIMICROBIAL ACTIVITY OF NANOPARTICLES' is a bonified work carried out by Mr. PRAVEEN M K (Reg.no. JBT19026) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 -21.

GUIDE:

Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

PS Bept of Riote:naulogy

A SA College at A ta Lummerce & Science

Boty Roud, Mysure 570 078

Prof. H. C. Honnappa

Principal, JSSCACS Ooty road, Mysore - 25.

JSS College of Arts, Commerce & Science Ook Ros MY SURU-25

Examiners:

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GREEN SYNTHESIS OF NICKEL OXIDE PARTICLES FROM LANTANA CAMARA FLOWERS INVESTIGATING ANTIMICROBIAL ACTIVITY' is a bonified work carried out by Mr.PRASHANTH G.S (Reg.no, JBT19025) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE:

Dr.Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

(C.Y. SAL)

Postgraduate Department of Bio-Technology

PS Best of Riote mulogy

Q & College of the Committee & Science

Bety fend thesian 4 is 117 f.

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25. PRINCIPAL JSS College of Arts, Culmerce & Spence Colly Rop + MYSURU-25

Examiners:

Place: Mysore

Date: 7.9.2021

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Certified that project report entitled "EFFECT OF PRE-CONDITIONING OF THE HUMAN UMBILICAL CORD TISSUE DERIVED MESENCHYMAL STROMAL CELLS IN MODULATING THE EXOSOME SECRETION" is a bonified work carried out by Ms. V.Devadharsini (Reg.No: JBT19009) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2021.

GUIDE: Dr. B. Y. Sathish Kumar

Qy. Carix

Signature of the Guide

Dr. B. Y. Sathish Kumar

6(.4. SAL)

Assistant Professor and Head

Postgraduate Department of Bientschnology

Po Dept er Riste mulogy

ARA Cellege of a 1s Commerce 5 Science Buth Reus, Mysica is in thes

Examiners

Prof. H. C. Honnappa Principal, JSSCACS

Ooty road, Mysor

SS College of Arts, Contrierce & Science Goby Rop (MYSURU-25



CERTIFICATE

Da				
100	1000			
	10 May 10			

This is to certify that Ms. V. Devadharsini had completed his industrial training at ONNSA Research Innovations PvI. Ltd. and submitted major findings successfully to our advisory committee. This report is a sole creation of the candidate itself for their degree requirement, ONNSA doesn't claim IPR on it and is also not responsible for its breach.

Dr Chetan Singh Rajpurohit Major Advisor

Scientist ONNSA Research Innovation Pvt Ltd Indiranagar, Bengaluru

Mr Raghvendra Shriftragmite

Committee Member Chief Operating Officer ONNSA Research Innovation Pvt Ltd Indiranagar, Bengaluru

Dr NK Venketaramana Chair Person

Director ONNSA Research Innovation Pvt Ltd Indiranagar, Bengaluru

CIN - U73200KA2019PTC124229

ONNSA Research Innovations Pvt Ltd

#560, 1"Floor, 9" A main Road, Indiranagar Bangalore, Karnataka, India-560038. T: 060.43312202 linfg@onnsa.com | www.onnsa.com

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING ' is a bonified work carried out by Ms. SAHANA. N (Reg.no. JBT19033) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: Dr. B. Y. Sathish Kumar

1.4. CA:X-Name & Signature of the Guide

Examiners

Place: Mysore

Dati Halm

Dr. B. Y. Sathish Kumar

11.4. Sar X

Assistant Professor and Head Postgraduate Department of Bio-

Pe Bept of Rietz shulegy

A & College of A.fa. Commerce & Science Bets Rose, Mesure 570 075

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysc

Ooh Ros MYSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled "ISOLATION AND CHARACTERIZATION OF HUMAN MESENCHYMAL STROMAL CELLS DERIVED EXOSOMES: A SET OF STANDARD PROTOCOLS** is a bonified work carried out by Ms. POOJITHA C K (Reg.no., JBT19021) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020 - 21.

GUIDE: Dr. B. Y. Sathish Kumar

Signature of the Guide

Examiners:

Place: Mysort

Dr. B. Y. Sathish Kumar Assistant Professor and Head

Postgraduate Department of Bio-Technology Lamine

P8 Dept of Prietramior

a 4 & College of A to Commonce & Scien-

Bots Roud, Mysters 570 07 8.

Prof. H. C. Honnappa

Principal, JSSCACS

Octy road, Mysore

JSS College of Arts, Cummerce & Science Ooty Ros + MYSURU-25



CERTIFICATE

This is to certify that Ms. Poojitha C K had completed his industrial training at ONNSA Research Innovations Pvt. Ltd. and submitted major findings successfully to our advisory committee. This report is a sole creation of the candidate itself for their degree requirement, ONNSA doesn't claim IPR on it and is also not responsible for its breach.

Dr Chetan Singh Rajpurohit Major Advisor Scientist. ONNSA Research Innovation Pvt Ltd Indiranagar, Bengaluru

Mr Raghvendra Shridharinarthy

Committee Member Chief Operating Officer ONNSA Research Innovation Pvt Ltd Indiranagar, Bengahiru

Dr NK Venketaramana Chair Person Director ONNSA Research Innovation Pvt Ltd Indiranagar, Bengaluru

CIN - U73200KA2019PTC124229

ONNSA Research Innovations Pvt Ltd

#560, 1"Floor, 9" A main Road, Indiranagar Bangalore, Karnataka, India-560038. T: 080.43312202 [info@onnsa.com] www.onnsa.com

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)
OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'SYNTHESIS AND CHARACTERIZATION OF ZINC NANOPARTICLES FROM DIFFERENT PLANT SOURCE AND ITS ANTIMICROBIAL ACTIVITY' is a bonified work carried out by Mr/Mrs POOJA N BABU(Reg.no. JBT19020) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE:

Examiners:

1. Dr. Madhusudhan K N

2.Dr. B.Y.Sathish Kumar

Name & Signature of the Guide

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

Beed of the Ocpariment

PG Dept of Riote movings

A & College of a ta Commerce & Science

Bots Houd, Missith 574 075

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road Mysospe 25 Sounds



Silkworm Molecular Biology Laboratory Central Sericulture Research and Training Institute Central Silk Board, Ministry of Textiles, Govt. Of India, Mysuru, Karnataka 570008

Dr.Madhusudhan K.N

Scientist-D

Email:madhu31us@gmail.

CERTIFICATE

This is to certify that the Project work entitled Mysuru ,under my guidance and supervision at Central Sericulture Research and Training Institute, Mysore for the duration of Three months project. This work was carried out by her in partial fulfilment of the requirements for the award of Master of Science in BIOTECHECHNOLOGY

(DR.MADHUSUDHAN K N)

Scientist D

(Research supervisor)

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING IN PRODUCTION' is a benified work carried out by Mr. Prajwal H.G (Reg.no. JBT19023) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

GUIDE: Dr. B. Y. Sathish Kumar

Name & Signature of the Guide

14. A -1

Examiners:

Place: Mysore

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Book chinology 'man

PE Dept of Finite minings

& College of his Commerce & Science

Boty Suve Mesuta 5711.1175

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL

Oofy Ros - MYSURU-25



Date:01-09-2021

TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Mr. Prajwal H.G MSc Biotechnology, student of JSS Arts, Commerce and Science college, Ooty Road, Mysore has successfully completed "GENERAL INDUSTRIAL TRAINING IN PRODUCTION" in our organisation for a period of 3rd June 2021 to 31st August 2021.

This certificate is valid for submitting project work.

From Laurus blo Pvt. Ltd

Authorized Signatory



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Quality Control and Quality Assurance is a bonified work carried out by Mr.Abhishek U.N (Reg.no. JBT19001) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE:

Ms. Vasantala M Head of Quality Control

Dept. MANMUL

By. SA-2

Name & Signature of the Guide

Examiners:

07/09/2011

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-

PG Best of Riets mulogy

A College of 4 to Commune & Science Both Roud, Mysura 570 UZ 5

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

PRINCIPAL - 23. ISS College of Arts, Contrictor & Science Only Ros . MYSURU-25

ರ್ಷ- 22000:2005 ದೃರ್ಧಿಕೃತ ಸಂಸ್ಥೆ ISO 22000:2005 Certified Dairy



ಮನ್ಮುಲ್ MANMUL



ಮಂಡ್ಯ ಜಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಉತ್ಪಾದಕರ ಸಂಘಗಳ ಒಕ್ಕೂಬ ನಿಯಮಿತ THE MANDYA DIST. CO-OPERATIVE MILK PRODUCER'S SOCIETIES UNION LIMITED

No. MMU/Admn/542/2021-22

Date: 07-08-2021

TO WHOM SO EVER IT MAY CONCERN

This is to Certify that Mr. Abhishek U.N. (JBT19001) M.Sc Student of JSS College of Arts, Commerce & Science, Mysuru has successfully carried out the Project Work on "Quality Control and Quality Analysis" in our Organisation for the period commencing from 23-03-2021 to 23-04-2021.

This Certificate is issued purely for Academic purposes only.

Managing Director Mandya Dist Co-op Milk Union

마다 마음도 하나도 가는다면 571 428. 라이트 브란 Product Dairy, Gejalagere - 571 428, Mandya District (KARNATAKA) Mo. Off : EPABX : 274571, 274777, 274592 Fax: (08232) 274593 email : marvnul@yahoo.co.in. marvnul1987@gmat.com

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled'A REVIEW ON SILVER NANOPARTICLES: SYNTHESIS, PROPERTIES AND APPLICATIONS' is a bonafide work carried out bsVidvashreeHiremath(Reg.no.JBT19043) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-2021

GUIDE: Vacuation

Mr. Vasanth Patil H.B

Assistant Professor

PG Department of Bio-Technology

1.4. Aux

Assistant Professor and Head

Postgraduate Department of Bio Technology

A & College of a to Commerce 9 Science

Batt our Morney Cal 1778

1. P.y. Shik

Prof. H.C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25

Place: Mysore

Date

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD,



MYSORE -570025

CERTIFICATE

Certified that project report entitled "GENERAL INDUSTRIAL TRAINING IN PROTEINS" is a bonified work carried out by Mr. Veeresha MV (Reg.No-JBT19042) partial fulfillment of the requirements for the award of Manter of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE: Rakesh Dananjaya

Manimaran Selvam

Dr. B. Y. Sathish Kumar

Assistant Professor and Head Postgraduate Department of Bio-

R.y. CAN'X

Calinde of a glogymeetra 9 Science

Sats fred Metern 574 875

Examiners:

Place: Mysore

Prof. H. C. Honnappa Principal, JSSCACS Ooty road, Mysore - 25.



Date:01-09-2021

TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Mr. Veeresh M V MSc Biotechnology, student of JSS Arts, Commerce and Science college, Ooty Road, Mysore has successfully completed "GENERAL INDUSTRIAL TRAINING IN PRODUCTION" in our organisation for a period of 29th July 2021 to 31st August 2021.

This certificate is valid for submitting project work.

From Laurus bio Pvt. Ltd

Authorized Signatory



JSS Mahavidyapeetha JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'IDENTIFICATION OF SECONDARY METABOLITIES FROM Aerva javanica AND QUANTIFICATION OF ALKALOIDS' is a bonified work carried out by Ms.Pachayee Prathiksha S (Reg.no. JBT19019) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2019-2021

GUIDE

Dr. Mallikarjun B. Chougala

Dr. B. Y. Sathish Kumar Assistant Professor and Head

Postgraduate Department of Bio-Technology

PS Dept of Rists moulogy

1 4 A College of a 15 Commerce & Science

Both Hous, Mysere 570 078

Place: Mysore

Examiners:

Date: 7/9/21

Prof. H. C. Honnappa

Principal, JSSCACS

Octy road Mysore 25

SS College of Arts, Countrients & Spence Octo Rop 1 Ministration 25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade and College with Potential for Excellence) OOTY ROAD, MYSORE- 570025



CERTIFICATE

Certified that project report entitled "A REVIEW ON COVID-19 VACCINES "is a bonified work carried out by Ms. Naveena E (Reg. no. JBT19017) in partial fulfillment of the requirements for the award of Master of Science(M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-21.

GUIDE:

Dr. Mallikarjun B. Chougala

Examiners:

Place: Mysore

1802 PO FO :stad

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Dept of Biotechnology Bank of the Ucpullment

PS Dout of Riots meelogy

A & B College of A to Commerce & Science

Buty Raint, Mounta 1574 dies.

Prof. H.C. Honnappa

Principal, JSSCACSOoty Road,

MYSRIACHAL

JSS College of Arts, Commerce & Science Outy Rop 1 MVSURU-25

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled 'Identification and characterization of bioactives from Picrorhiza Kurroa (plant) for the prevention of Obesity/NAFLD invitro' is a bonified work carried out by Ms. Manya. C p (Reg.no: JBT19015) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2020-2021

GUIDE:

Dr. B. PullaReddy

Senior Technical officer (2)

Department of Molecular Nutrition

CSIR-CFTRI

Mysuru - 570020

अन्यस्थित योग्य दिवाग Department of Mole, dur Nativille भी एक अर्द अर . भी एक ही उड़र, अर्थ हिंदिन होंगा figs / mysore-570 ges

Examiners:

Place: Mysore Date: 25/0872021

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

B.Y. SALIX

Postgraduate Department of Bio-Technology

PG Dept. of Rietz maulogy

A & Callage of A to Commerce & Science

Both Boud, Mysure-574 UZ.6

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore 25.

ISS College of Arts, Commerce & Science Outy Rom - MySURU-25



CERTIFICATE

This is to certify that the project work presented in this report "Identification and characterization of bioactives from Picrorhiza Kurroa (plant) for the presention of Obesity/NAFLD invitro" was carried out by Ms. Manya. C. P during the academic year 2020-2021 under the guidance of Dr. B. Pulla Reddy, Senior Technical officer (2), Department of Molecular Nutrition, CSIR-Central Food Technological Research Institute, Mysums in partial fulfilment of the requirements of Master of Science in MSc. Biotechnology.

previously of Halpaulia registrion Dr. B. PullaReddy att Ered ST. M. Charlette Senior Technical officer (24Y50RE-570 020

Department of Molecular Nutrition CSIR-CFTRI, Mysuru 570020

Signature of Co-Ordinator MY5040 - 570 020

Dr. Pradeep Singh Negi Sr. Principal Scientist Human Resource Development

CSIR-CFTRL Mysuru 570020

Signature of Head एक्टिंड गोना चित्र, Deteriors of Veletrie Matthews Dr. Sridevi Annapumi Singh To Carr St. 19 MISCAL-STOOLS Director

CSIR-CFTRI, Mysuru 570020

Date: 24.8. 2021

Place: Nysuru

LOWERS - LOW MADE - BOOK FOOD JOOK, THOOD JOOK CARE TELESTICOR (AND LOADS) NOT मीप्समार्थकार - मीप्सरीकारमार्थ - आर्थ्समो १००१:२००६,१४००१:२००४ और १००२५:२००५ (द्व्यामीप्स) मंत्रात CSIR - CFTRI - ISO 9001:2008, 14001:2004 and 17025:2005 (NABL) Organization COPILET : No copy that you this former of com-



PRODUCTION OF RECOMBINANT PROTEINS FROM PICHIA PASTORIS

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

ARUNDHATHI-B

Reg. No. JBT20004 IV Semester

Under the guidance of

External Guide

Mr.JEEVARATHINAM.S

MANAGER, R&D UPSTREAM

LAURUS BIO (FORMERLY RICHCORE) PVT LTD, BANGALORE

Internal Guide

Mr.B.Y. SATHISH KUMAR

HEAD OF POSTGRADUATE DEPARTMENT OF BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE, AND SCIENCE, OOTY ROAD, MYSORE



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Title of the project' is a bonafide work carried out by ARUNDHATHI B (Reg.no. JBT20004) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Mr. Jeevarathinam. S

Manager, R&D Upstream Laurus Bio (Formerly Rich core) Pvt Ltd

Internal Guide - ((

Examiners:

1.

2 persus

Place: Mysore Date: Dr. B.V. Sathish Kumar Assistant Professor and Trend PG Depter Bioliste memory

Callage of 4 to Commerce & Sel. Bety (lave, Myoure, 570 D28

Prof. M. P. Vijayendra Kumar

Ooty road, Mysore - 25

GENERAL INDUSTRIAL TRAINING IN QUALITY CONTROL.

Project/Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr. Sanjay Shankar.T

Reg. No. JBT20033

IV Semester

Under the guidance of

External Guide

Mr. Naveen chawla

Manager quality control microbiology Nestle Inidia.LTD, Nanjungud

Internal Guide

Mr/Ms/Dr.



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENERAL INDUSTRIAL TRAINING IN QUALITY CONTROL' is a bonafied work carried out by Mr. Sanjay Shankar, T (Reg.no. JBT20033) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Naveen chawla

Guide Certificate may also be attached as a separate certificate on company's letter head with seal)

Internal Guide -

Dr. Poonom S. Jaiswal

Examiners:

Place: Mysore

Date:

PG Deff. Broking Rials and por 8 College at a ta Lummerra & Science

But Reve, Mysure 570 021

Prof. M. P. Vijavendra Kumar

a Colles Principal, ISSCACS School

Ooty road, Mysore - 25.

QUALITY CONTROL AND QUALITY ASSURENCE

Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr. SANJAYGOWDA B.N

Reg. No. JBT20034

IV Semester

Under the guidance of
External Guide
Dr. KAVITHA K.S
Head of Quality Control
DEPT. MANMUL



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Quality Control and Quality

Assurance' is a bonafied work carried out by Mr. SANJAYGOWDA B.N (Reg.no.

JBT20034) in partial fulfillment of the requirements for the award of Master of
Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide - H

Assitant Manager (QA)

MANMUL, Product Dairy,
Gejjalagere - 571428,
Maddur Taluk, Mandya Dist.

But Rust Month And Pre

Ooty road, Mysore - 25.

Dr. B.Y. Sathish Kumar Assistant Professor and Head, PG Dapped Bior Eachnology

Internal Guide -

Dr. Poppam S. Jaiswa

Examiners:

Dhey 3000 non

20/3/22

2

REPORT ON INTERNSHIP AT INDUSTRIAL ANALYTICAL RESEARCH AND DEVELOPMENT DEPARTMENT

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. ABHIJNA VIJAY SHETTY

Reg. No. JBT20002

IV Semester

Under the guidance of

External Guide

Dr. GOPA MITRA

Manger, analytical R&D Laurus bio private limited Bangalore

Internal Guide

Dr. Abignan Gurukar

Assistant professor PG Biotechnology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY-2022

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Title of the project' is a bonafied work carried out by Ms.ABHIJNA VIJAY SHETTY (Reg.no. JBI20002) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External Guide -Dr. Gopa Mitra

Manger, analytical R&D Laurus bio private limited

Internal Quide Cu

Dr. Abignan Gurukar

Assistant professor

Head of the department PG Biotechnology

Examiners:

1.

2,

Place: Mysore

Date: 29th July 2022

Dr. B.Y. Sathish Kumar

Assistant Professor and Press.

PG Dept. of Biotechnology

Prof. M. P. Vijayentira Kumar

Suntamporthery Road, Attacher .

GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr H.Swaraj

Reg. No. JBT20043

IV Semester

Under the guidance of

External Guide

Mr.Rakesh.D

General manager, Laurus bio pvt, ltd. with Address Internal Guide

Mr/Ms/



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENBERAL INDUSTRIAL TRAINING, PRODUCTION is a bonafied work carried out by Mr. SWARAJ.H (Reg.no. JBT20043) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Mr,Rakesh.D

(Guide Certificate may also be attached as a separate certificate on company's letter head

Internal Guide - 1 - A Digron Cunker

Examiners

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar

Assistant Brodes supurni ditad.

PC Popt of Big Jechnology I R & College of A Ta Commerce & Scheme

Prof. M. P. Vijavendra Kumar

Principal ISSCACS A School

Ooty road, Mysore - 25.

In Silico Screening of different Antiprotozoal drugs against proteins of PPO pathway and Designing of New Generation Drugs





Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts,

Commerce and Science in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. SUSHMANJALI K.P.

Reg. No. JBT20042 1V Semester

Under the guidance of External Guide

Dr. MADHUSUDHAN K.N.

Scientist-D

Molecular Biology and Bioinformatics Laboratory, CSRTL Mysuru



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSURU -570025

JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSURU- 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'In Silico Screening of different Antiprotozoal drugs against proteins of PPO pathway and Designing of New by Ms. Sushmanjali Generation Drugs'isabonafied work carried out K.P.(Reg.no.JBT20042) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE: Internal Guive Man Signon Chunker

External Guide-

Dr. Madhusudhan!

Scientist-D

Molecular Biology and

Bioinformatics Laboratory, CSRTL

Mysuru

Examiners

2.

Place: Mysore

Date

A & College of A ta Commerce

Buty Haud Mysnes 5711 878

Prof. M. P. Vijayendra Kumar

Principal JSSCACS

Ochy road Mysuru - 25 Science

QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. SUSHMA GAONKAR

Reg. No. JBT20041 IV Semester

Under the guidance of

External Guide

Ms. LAVANYAVATHI. S.V

Deputy manager of Quality control
DEPT. Of MYMUL
Internal Guide

Dr. B.Y. SATHISH KUMAR

Assistant Professor and Head, PG Dept. Of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS is a bonafide work carried out by Ms. SUSHMA GAONKAR (Reg.no.JBT20041) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide

Ms.LAVANYAVATHI S.V.

Deputy manager of Quality control DEPT of MYMUL Internal Guide - R. Y. SALLY

Examiners:

2.

Place: Mysore

Date

Dr. B.Y. Sathish Kumas

Assistant Professor and Head

PG Dept. of Bio-Technology Bull Hand, Myoney is approx

-Prut M. P. Yuayendra Kumar

Manufactured, ASSCACS

Ooty road, Mysore - 25.

In Silico Screening of Antibiotic & Antifungal drugs against protein Pathways of Toll & IMD for New Generation Drug Designing





Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. PRAMITHA G

Reg. No. JBT20021 IV Semester

Under the guidance of External Guide

Dr MADHUSUSHAN K N

Scientist-D

Molecular Biology and Bioinformatics Laboratory, CSRTI, Mysuru



Postgraduate Department of Biotechnology
JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSURU –570025 July - 2022

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSURU -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'In Silico Screening of Antibiotic & Antifungal drugs against protein Pathways of Toll & IMD for New Generation Drug Designing' is a bonafied work carried out by Ms. Pramitha G (Reg.no. JBT20021) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External Guide-

Internal Guide - Mishor

madhuendhan KN 21/7/22

Scientist-D

Molecular Biology and Bioinformatics

Laboratory, CSRTI, Mysuru.

Examiners:

١.

2. Vielda 140

Place: Mysuru

Date:

Dr. B.Y. Sathish Kumar

Assistant Professor and Head

PG Depts of BionTechnology

they there shared a print

Prof. M. B. Waiayendra Kumar

.s.s Comprincipal, JSSCACS

Ooty road, Mysuru - 25.

UNIVERSITY OF MYSORE

Mysore -570025, Karnataka



Internship Report

Or

"GENERAL RECOMBINANT PROTEIN ANALYSIS"

Submitted in the partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE (M.SC.,) DEGREE IN BIOTECHNOLOGY

Submitted by

MS. SUPREETHA S JBT20040

To

The Postgraduate Department of Biotechnology

Under the Guidance of

External Guide

DR. GOPA MITRA,

R&D Manager, Laurus Bio Pvt. Ltd., Bangalore

Internal Guide

DR. B.V. SATHISH KUMAR

Head of Postgraduate Department Of Biotechnology, JSS College Of Arts, Commerce And Science, Ooty Road, Mysuru

(An Autonomous College of University of Mysore)

POSTGRADUATE DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

Certified that project/internship report entitled 'GENERAL RECOMBINANT PROTEIN ANALYSIS' is a bonafied work carried out by Ms. Supreetha S (Reg.no. JBT20040) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

	11.9.50
External Gusde Dr. Gops Mitra R&D Manager Laurus Bio Pvt Ltd. Banglore	Signature of HOD Dr. B.Y. Sathish Kumar Assistant Professor and India Prof. M. P. Vijayendra Kumar Prof. M. P. Vijayendra Kumar Prof. M. P. Vijayendra Kumar Ooty road, Mysore - 25 Science Buty long Mysore - 25

0.10 2/-

Internal Guide

| Jeffelieurs |
| Dr. Poonam S. Jais and | External Viva
| Name of the Examiners | Signature with date

1. <u>(%)</u>

QUALITY CONTROL AND QUALITY ASSURANCE

Internship Report

Submitted to the Postgraduate Department of Biotechnology,

JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of mysore

Submitted by

Ms. SAHANA.C.Y

Reg. No. JBT20029

IV Semester

Under the guidance of

External Guide

LAVANYVATHLS.V

Deputy manager of Quality control

DEPT. of MVMUL

Internal Guide

Dr. B.Y. SATHISH KUMAR

Assistant Professor and Head,

PG Dept. of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

July - 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Quality Control and Quality Assurance' is a bonafide work carried out by Ms. Sahana, C.Y (Reg.no., JBT20029) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S)

External Guide -

Lavanyvathi.S.V.

Deputy manager of Quality control

DEPT of MYMUL

Internal Guide - No

Vasanth Patil H.B.

30 9 32

Examiners:

Place: Mysore

Date:

ProfeM. E.N Principal ISSCACS

Ooty road, Mysore - 25.

Page | Z

Agricultural applications of Metal complexes and Nanoparticles

Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

ROJA L

Reg. No. JBT20026

IVSemester, MSc.,Bio-technology

Under the guidance of

Dr.REKHA.N.D

Assistant professor

Postgraduate Department of Bin-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

July -2022

(An Autonomous College of University of Mysore)

MYSORE 570025



Postgraduate Department of Biotechnology

CERTIFICATE

OF METAL COMPLEXES AND NANOPARTICLES' is a bonified work carried out by ROJA L(Reg.no. JBT20026) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE: Vallage

Dr.Rekha N.D

Assistant professor Department of Bio-Technology

Examiners:

2

1. Ryhey 30/09/2020

Place: Mysore 3-12/27

Date

Dr. B.Y. Sathish Kumar Assistant Professor and Head,

PG Debt. bioBio! Technology

1 8 8 Callage of & ta Commerce 5 Science

Bets Root, Mesura William

Prof. M. P. Vijavendra Kumar

Ooty road, Mysore - 25.

Papaya Plant Tissue Culture

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (MSc) degree in Biotechnology of University of Mysore

Submitted by

Chaithra B G

Reg. No. JBT20006 IV Semester

Under the guidance of

Dr. Pious Thomas

CEO & Director, Thomas Biotech & Cytobacts Centre for Biosciences (OPC) Pvt. Ltd., Bengaluru 560092



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY- 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Papaya Plant Tissue Culture' is a bonafied work carried out by Chaithra B G (Reg.no. JBT20006) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Name of the Guide with seal

Dr. PIOUS-FHOMAS, Ph. 5. CEO & DIRECTOR gmas-Biotech & Cytobacts Centra

forBiosciences (OPC) Pvt, Ltd. 8) Talacauvery Layout, Amruthahaili

Gengalum 566097

Internal Guide - (M. A-X

Dr. B.Y. Sathish Kumar

Assistant Professor Lind Fread,

PG Defit RepBiet Rethinming

1 4 & College of & ta Lummers 9 Science

Spin tous Menors 53th 876

Prof. M. P. Mijayonda Kumar

. a.s. Coprincipal, JSSCACS.

Ooly road, Mysore - 25

Examiners:

1

2. Misharaph

QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS.

INTERNSHIP REPORT

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce, And Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology at the University of Mysore.

Submitted by Ms. K.C SWAPNA Reg.NO. JBT20013 IV Semester

Under the guidance of
EXTERNAL GUIDE
Ms. Lavanyavati S,V
Deputy Manager (Quality Control)
MYMUL, KMF, Mysore
INTERNAL GUIDE



Postgraduation Department Of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE, AND SCIENCE

(An Autonomous College Of University Of Mysore)

MYSORE - 570025

(An Antonomous College Of Liniversity Of Mysore)

MYSORE - 570025



Postgraduate Department of Biotechnology CERTIFICATE

Certified the internship report entitled "QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS" is benefited work carried out by Ms. K.C. SWAPNA (Reg.No.JBT20013) in partial fulfillment of the requirements for the award of Masters of Science degree in Biotechnology of the University of Mysore.

-							
- 60	ъ	11	œ	m	te.	en.	800
- 1	100	11	ш	ш	п	Е	260
- 59	60	344	ш	ж	48	No.	-36

EXTERNAL GUIDE

Ms. Lavanyavati S.V

Deputy Manager (Quality Control)

MYMUL, KMF, Mysore

INTERNAL GUIDE

Vasanth Port 4.3.

Dr. B.Y. Sathish Kumur

Assistant appropriately and Head.

PG Bellevir at Girtlethology

A S Seliege of 4 to Lummers & Science

Buty Road, Myrene Silvi 1728

Prof. M.P. Vijayendos Kumar

Principal, ISSCACS

Octy Road, Mysore -25

Examiners

1

b

Place Mount

Dug 29/7/ 2022

QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCTS.

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru

Submitted by

RAJESA ALAMEL Reg.No: JBT20025 IV Semester

Under the guidance of

Ms. Lavanyavathi S V Head of quality control DEPT. MYMUL



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru)

MYSURU-570025

(An Autonomous College of University of Mysuru)

MYSURU -570025

Re-accredited by NAAC with A Grade, CGPA:3.21 Recognized by UGC as college with Potential for Excellence



Postgraduate Department of Biotechnology

Certificate

This is to certify that Mr. RAJESA ALAMEL (Reg.No:JBT20025) Has completed the project work on "QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCT" at J S S College University of Mysuru, during IV Semester of his final M.sc. Biotechnology course, as a partial fulfilment of the requirement to award M.sc. Degree in Biotechnology by JSS college Ooty road Mysuru.

GUIDE:

Ms.Lavanyavathi S V

Head of Quality control

Dept. MYMUL

Name and Signature of the Guide

Vasanth Patil H.B.

or. BY Sathish Kumar

Assistant professor and Head,

PG. Department of

Biotechnology....

. Broke P. Vijavendra Kumar

Principal, ISSCACS

Ooty road, Mysore - 25.

Examiner:

1. Sheg sof afrom

2.

QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS.

INTERNSHIP REPORT

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce, And Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology at the University of Mysore.

Submitted by

Ms. RUCHITHA CHOUDARY K.

Reg.NO. JBT20027

IV Semester

Under the guidance of

EXTERNAL GUIDE

Ms. Lavanyavati S.V

Deputy Manager (Quality Control)

MYMUL, KMF, Mysore

INTERNAL GUIDE



Postgraduation Department Of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE, AND SCIENCE

(An Autonomaus College Of University Of Mysore)

MYSORE - 570025

(An Autonomous College Of University Of Mysote)

MYSORE - 570025



Postgraduate Department of Biotechnology CERTIFICATE

Certified the internship report entitled "QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS" is benefited work carried out by Ms. RUCHITHA CHOUDARY K (Rge.No.JBT20027) in partial fulfillment of the requirements for the award of Masters of Science degree in Biotechnology of the University of Mysore.

GUIDES:

EXTERNAL GUIDE

Ms. Lavanyuvati S.V

Deputy Manager (Quality Control)

MYMUL, KMF, Mysore

Dr. B.Y. Sathish Kumur

Assistant professor and Head

1 8 BOSSuppos BlOsTechnology 9 Science

Bety Rose, therents 570 1778

INTERNAL GUIDE

Varanth Patil H.B.

S COMPRESANTA VERNERATE NEEDS

PRINCIPAL

Ooty Road, Mysore -25

Examiners:

L

Place: Mysore

Date

30/9/22

INTERNSHIP REPORT ON SAFETY ASSESSMENT OF PHARMACEUTICALS/INDUSTRIAL CHEMICALS BY

IN-VIVO METHODS

Project/Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr. Aleem S M

Reg. No. JBT20003 IV Semester

> Under the guidance of External Guide

Mr. M Sai Kumar

Department of toxicology Vipragen Biosciences Pvt. Ltd.

Internal Guide

Dr. Abignan Gurukar

Assistant Professor, PG Dept. of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY - 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Internship report on Safety Assessment Of Pharmaceuticuls/ Industrial Chemicals By In-17vo Methods' is a bonafide work carried out by Mr. ALEEM S M (Reg.no. JBT20003) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Mr. M Sai Kumar

External Guide -

HOD, Department of toxicology Vipragen Biosciences Pvt. Ltd.

PG Don't or Contamination

A & College of & ta Lummers 9 Science

Bete loud, Mesore bluttes

Internal Guide - M. & Abignon Guruker

Examiners:

1. Netwood

2. Kg &

Place: Mysore

Dete

Dr. Abignan Gurukar

Assistant Professor, PG Dept. of Bio-Technology

Prof. M. P. Adjuyondra Kumar

a s chrinoipal, JSSE ACS a Semi-

GENERAL INDUSTRIAL TRAINING IN PRODUCTION <u>DEPARTMENT</u>

Internship Report Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. Pallavi.K.H

Register No:JBT20018

IVth Semester

Under the guidance of

Mr. Rakesh.D,

General Manager

Mr. Partiban.G

Production Manager

Laurus Bio Pvt. Ltd, Tumkuru



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous college of university of Mysore)

MYSORE -570025



Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING IN PRODUCTION' is a bonified work carried out by MS. Pallavi K.H (Reg.no. JBT20018) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore.

GUIDE:

EXTERNAL GUIDE:

PARTIBAN .G

Production Manager

Laurus Bio Pvt Ltd

Turnkur

INTERNAL GUIDE MELENT

Dr. B. Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Riv-

Pichinologicate stanlegt

1 4 8 College of A.tz. Lummers & Stine

Bety Read, Mysure 570 075

Prof. M.P. Vijavendra Kumar

Pfincipal; JSSCACS

Ooty road, Mysore 25

Examiners:

ï

2.

Pince: Mysore

QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCTS.

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru

Submitted by

SAHUL HAMEED A H

Reg.No: JBT20031
IV Semester

Under the guidance of

Ms. Lavanyavathi S V
Head of quality control
DEPT. MYMUL



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru)

MYSURU-570025

(An Autonomous College of University of Mysuru)

MYSURU -570025

Re-accredited by NAAC with A Grade, CGPA:3.21 Recognized by UGC as college with Potential for Excellence



Postgraduate Department of Biotechnology

Certificate

This is to certify that Mr SAHUL HAMEED A H (Reg.No:JBT20031) Has completed the project work on "QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCT" at J S S College University of Mysuru , during IVSemester of his final M.sc. Biotechnology course, as a partial fulfilment of the requirement to award M.sc. Degree in Biotechnology by JSS college Ooty road Mysuru

GUIDE:

Ms.Lavanyavathi S V

Head of Quality control

Dept. MYMUL

Name and Signature of the Guide

Vasanth Paril H.B.

Dr. B Y Sathish Kumar

Assistant professor and Head,

epartment of Bio-technology.

Prof. M. P. Vijayendra Kumar

Principal, JSSCACS Ooty road, Mysore - 25.

Examiner:

20/07/207

2.

'Isolation and characterization of bioactive peptide (POST-BIOTICS) produced by probiotic bacteria'

ProjectReport

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts,

Commerce and Science in partial fulfillment of the requirements for the award of Master

of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr. R. Rakesh

Reg. No. JBT20024

IV Semester

Under the guidance of External Guide

....

Dr. Shylaja. R

Scientist 'F', Defence Food Research Laboratory, DRDO, Mysuru



Internal Guide

Dr. B.Y. Sathish Kumar

Assistant Professor Head

Postgraduate Department Biotechnology, JSSCACS, Outy Road, Mysuru



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysarc)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that projectreport entitled 'Isolation and characterization of bioactive peptide (POST-BIOTICS) produced by probiotic bacteria' is a bonafide work carried out by Mr. R. Rakesh (Reg.no. JBT20024) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide

Dr. Shylaja, R

Scientist 'F', DERL, Mysuru.

DERL Mysore-570011

Examiners:

Place: Mysore

Date

Internal Guide

Assistant Professor and Head

Ooty road, Mysore - 25

ISOLATION AND CHARACTERIZATION OF LACTIC ACID BACTERIA STRAINS FROM RAW AND FERMENTED GINGER

Project/Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr. SUHAS R.P

Reg. No. JBT20039

IV Semester Under the guidance of

External Guide

Dr. SHRUTHI S.D

Proprietress

BioEdge Solutions

Ist floor, M 400, 8th cross, 1st stage, Peenya Industrial Area, Bangalore 560058
Internal Guide

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'ISOLATION AND CHARACTERIZATION OF LACTIC ACID BACTERIA FROM RAW AND FERMENTED GINGER' is a bonafide work carried out by Mr.SUHAS R.P. (Reg.no. JBT20039) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

2

GUIDE(S):

External Guide - For BioEdge Solutions
Dr. Shruthi S.D

Proprietress

Signature of the Guide

Dr. foonom = Jaiswal Examiners:

2.

Assistant Professor and Head

Per-Deph. of Big-Trehnology & Science

Pref. M. P. Viloyendra Kumar

Principal ASSCACS

Ooty road, Mysore - 25.

Place: Mysore

"CELL BANKING AND CHARACTERIZATION"

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. Usha.S.T

Reg. No.JBT20045

IV Semester

Under the guidance of

External Guide

Mr. Rahul Shashikanth Naik

Principal Scientist, Biocon Research Limited, Bangalore

Internal Guide



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE-570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'CELL BANKING' is a bonafied work carried out by Ms. Usha.S.T (Reg.no.JBT20045) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External Guide:

Rahul Shashikanth Naik

Principal Scientist, Biocon Research Limited, Bangalore

Signature of the Guide

Internal Guide: M. & Abigran Gunter

2

. Prof. M. P. Vijayendra Kamar

Dr. B.Y. Sathish Kumar

College at A to Lamme

Man / Principal ASSCAC

Ooty road, Mysore - 25.

Examiners:

1,

2.

Place: Mysore

Date:

SHREEGLUCO BIOTECH PVT LTD

Manufacturer of corn starch and its derivatives

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru

Submitted by

Prajwal N Reg.No: JBT20020 IV Semester

Under the guidance of

Mr Dattatreya Nitturkar (DGM) QA/QC Shreegluco biotech pvt ltd



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru MYSURU-570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'Shreegluco biotech pvt ltd.

Stacrh and its derivatives' is a bonafied work carried out by Mr Prajwal N

(Reg.no. JBT20020) in partial fulfillment of the requirements for the award of

Master of Science degree in Biotechnology of University of Mysore.

Guide:

External guide:

Mr Dattatreya Nitturkar (DGM) QA/QC

Shreegluco biotech pvt ltd

Internal guide;

Perenter

Dr. B.Y. Sathish Kumar

Assistant Professorand Head.

PG Door of Bio Technology

8 Ecliege of A.ts. Lummers & Science

Saty Tour Monut

Prof. M. P. Vijayendra Kumar

· 3 5 CoPrimeipula JSSCACS

Coly food, Mysone 25.

Examiners

ı.

2 Tales No.

Date: 29/07/2022

Place: Mysore

QUALILATIVE ANALYSIS OF MILK AND MILK PRODUCTS

InternshipReport

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of

Mysore

Submitted by

Mr.SUHAS H S

Reg. No. JBT20038

IV Semester

Under the guidance of

External Guide

Ms.LAVANYAVATHI S V

Deputy manager (Qc department) MYMUL

Internal Guide



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

(An Autonomous College of University of Mysore)



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'QUALILATIVE ANALYSIS OF MILK AND MILK PRODUCTS'isabonafied work carried out by Mr.SUHAS H S (Reg. no. JBT20038) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Ms.LAVANYAVATHI S V

Deputy manager (Qc department)

MYMUL

Internal Guide - January

Dr. B.Y. Sathish Kumar Assistan Professor and Head

PG Dept. BPBio-Treshologue

& & & Cultage of & ta Lummerte & Stram

Buty Roug Mornes Constitut

Prof. M. P. Vijayendra Kumar

Principal, JSSCACS

Ooty road, Mysore - 25.

Examinerat

1. (111)

2.

Place: Mysore

Date 30/07/2022

THE ROLE OF PYRAZOLINE DERIVATIVES IN ENHANCING SOIL FERTILITY AND PRODUCTION OF CITRIC ACID

Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

SONA

Reg. No. JBT20036

IV Semester, MSc., Bio-technology

Under the guidance of

Dr. REKHA.N.D

Assistant professor

Postgraduate Department of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

July -2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

that project/internship report entitled 'THE ROLE OF Certified PYRAZOLINE DERIVATIVES IN ENHANCING SOIL FERTILITY AND PRODUCTION OF CITRIC ACID' is a bonified work carried out by SONA (Reg.no. JBT20036) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE: Valle 54.5

)

Dr.Rekha N.D.

Assistant professor Department of Bio-Technology

Examiners:

Place: Mysore

Date:

30/00/20m

Dr. B.Y. Sathish Kumar

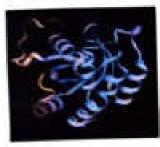
PG ISSPENS BIO TECHNOISS Bully land Morney Charles

Brof, M. P. Vijayendra Kumar

Principal, JSSCACS * Scanne

Ooty road, Mysore - 25.

In Silico Screening of Antiviral drugs against Protein Pathways of JAK-STAT & ERK as a Primary approach to Design New Generation Drugs





Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. CHANDANA M.

Reg. No. JBT20007 IV Semester

Under the guidance of External Guide

Dr. MADHUSUDHAN K N

Scientist-D

Molecular Biology and Bioinformatics Laboratory, CSRTI, Mysuru.



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) MYSURU -570025

July 2022

(An Autonomous College of University of Mysore)

MYSURU -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "In Silico Screening of Antiviral drugs against Protein Pathways of JAK-STAT & ERK as a Primary approach to Design New Generation Drugs" is a bonafied work carried out by Ms. Chandana M. (Reg.no. JBT20007) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External Guide -

Internal Guidan

Dr. Madhusudhan K N.

Scientist-D

Molecular Biology and Bioinformatics

Laboratory, CSRTI, Mysuru.

Examiners:

1.

2

Place: Mysuru

Date

Dr. B.Y. Sathish Kumar

Assistant Professor and Head,

PG Dept of Rio Technologyeisses

Buts twee Meanin 1/21/3778

Prof. M. P. Vijayendra Kumar

Principal JSSCACS

Cory road, Mysuru - 25

Papaya Plant Tissue Culture

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (MSc) degree in Biotechnology of University of Mysore

Submitted by

Niveditha S

Reg. No. JBT20017 IV Semester

Under the guidance of

Dr. Pious Thomas

CEO & Director, Thomas Biotech & Cytobacts Centre for Biosciences (OPC) Pvt. Ltd., Bengaluru 560092



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY-2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Papaya Plant Tissue Culture' is a bonafied work carried out by Niveditha S(Reg.no. JBT20017) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Name of the Guide with seal

Dr. PIOUS THOMAS, Ph. D.
CEO & DIRECTOR
mas-Bietech & Cytohacts Centre
imBiosciences-(CPC) Pvt. Ltd.
'stacauvery-Layout, Amruthahalli.

Bensalury 560052

Internal Guide -

Nehoraph

Dr. B.Y. Sathish Kumur at Assistant Professorand Head

THE LEDIT OF BIG-Technology & Science

Bats Taug Mysics to proce

Prof. M. P. Vijayendra Kamar

Van Doty road, Mysote 25

Examiners:

١.

2.

Rang Ma

"QUALITY CONTROL OF DAIRY PRODUCTS"

Internship report

Submitted to the Post graduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by:

Ms. MEGHA P.

JBT20016

II M.Sc. – IV SEMESTER

PG- BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE, MYSORE

Under the guidance of:

MS. LAVANYAVATHI S.V.
DEPUTY MANAGER
MYSORE MILK UNION LIMITED (MYMUL)



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'QUALITY CONTROL OF DAIRY

PRODUCTS' is a bonafide work carried out by Ms. Megha P. (Reg. No. JBT20016)

in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External guide

Ms. LAYANYAVATHI S.V. Assistant Manager (Admin)

Assistant Manager (Admin) Mysuru Dist, Co-operative Milk

Producer's Societies Union Ltd.,

Mysuru-570 028 Signature of the guide

Internal Guide -

Dr. B.Y. Sathish Kumur Assistant Professor and Heads

PG Degg. pfpBigtTenhnulogset

ARE College of A.ts. Committee S. Science

Data Reve, Mysura 570 078

Prof. M. P. Xijayendra Kumar

** S Cotton Principal, JSSCACS Scraw

Examiners:

*

2.

Place: Mysore

Date: 29/07/2022

GENERAL RECOMBINANT PROTEIN PRODUCTION IN UPSTREAM PROCESSING AT LAURUS BIO Pvt Ltd.,

INTERNSHIP REPORT

SUBMITTED TO THE POSTGRADUATE DEPARTMENT OF BIOTECHNOLOGY, JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF MASTER OF SCIENCE (M.SC.) DEGREE IN BIOTECHNOLOGY OF UNIVERSITY OF MYSORE

Submitted by

Ms. Swetha Jagadeesh Register No: JBT20044 IVth Semester

Under the guidance of -

External Guide

Mr. Jeevarathinam. S Manager, R&D Upstream Laurus Bio (formerly rich core) Pvt Ltd., Bangalore

Internal Guide

DR. B. Y. Sathish Kumar
Head of Postgraduate Department of Biotechnology
JSS College of Arts, Commerce and Science, Ooty Road, Mysore



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE, AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE - 570025

July - 2022

2021 - 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that the internship report entitled 'GENERAL RECOMBINANT PROTEIN PRODUCTION IN UPSTREAM PROCESSING AT LAURUS BIO Pvt Ltd.' is a bonafide work carried out by Ms. Swetha Jagadeesh (Reg.no. JBT20044) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of the University of Mysore during the year 2021-2022.

GUIDE(S):

EXTERNAL GUIDE:

Mr. Jeevarathinam. S

Manager, R&D Upstream

Laurus Bio (formerly rich core) Pvt Ltd.,

Bangalore

INTERNAL GUIDE: 17. Grafe

Assistant Professor and Flead.

PG Deplet Biolectmology

L & & Callege of A. ts. Lummerte & Spines.

Onto Houd Municipal Contract

Annia Principal JSSC

Ooty road, Mysore - 25.

EXAMINERS:

2

Place: Mysore

Date:

GENERAL INDUSTRIAL TRAINING IN PRODUCTION

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts,

Commerce and Science in partial fulfillment of the requirements for the award of Master of

Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Ms. VARSHA H S

Reg.No: JBT20046

IV Semester

Under the guidance of

Mr.RAKESH D General Manager Laurus Bio Pvt Ltd Tumkur

Mr.PARTIBAN G
Production Manager
Laurus Bio Pvt Ltd Tumkur



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'GENERAL INDUSTRIAL TRAINING IN PRODUCTION' is a bonafied work carried out by Ms.VARSHA H S (Reg.No. JBT20046) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

EXTERNAL GUIDE Mr.PARTIBAN G Production Manager Laurus Bio Pvt Ltd Tumkur

INTERNAL GUIDE

M. 8 Abignon awarkan

Examiners:

1.

2.

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar Assistant Professor and Head,

Buty Tout Micros - a street

PG Deft. of Bio-Technology

Prot. M. P. Vijayendra Kumar

Principal, JSSCACS

Ooty road, Mysore - 25.

GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT (UPSTREAM PROCESS) AT LAURUS BIO Pvt Ltd.,

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. SHIVALINGA G C

Register No: JBT20035

IVth Semester

Under the guidance of

Dr. B. Y. Sathish Kumar
Head of Postgraduate Department of Biotechnology
JSS College of Arts, Commerce and Science, Ooty Road, Mysore.

Mr. Suresh C

Production Manager

Mr. Sathish

Upstream Manager

Laurus Bio Pvt. Ltd, Bommasandra Bangalore-560105

July - 2022

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



Certified that project report entitled 'GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT (UPSTREAM PROCESS) AT LAURUS BIO Pvt Ltd is a bonified work carried out by Mr. Shivalings G C(Reg.no. JBT20035) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2021 – 22.

GUIDE: Dr. B. Y. Sathish Kumar

Boos of the Department

Dr. B. Y. Sathish Kumar

14. 6 - 1 Science

Bio-technology

Prof. M. P. Vijayebdra Kumar Coverncipal, USSCACS of School Man/Query road, Mysocas 25042-4

Examiners:

ı.

2.

Place: Mysore

30/3/22

relation

FERMENTATION TECHNOLOGY

Project/Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfilment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of

Mysore

Submitted by

Ms. Samathashree.K

Reg. No. JBT20032

IV Semester

Under the guidance of

External Guide

Dr. Prasad M.P M.Sc., PHD Director of Sangene Biotech company

2nd Cross, Sigma Consultants, Krishna Reddy Colony, Domlur Layout, Bengaluru-560071, Kamataka, India

Internal Guide

Dr. B.Y. Satish Kumar, M.Sc., PhD

Head of Department, Biotechnology, JSSCACS



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYRORE_\$70075

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'FERMENTATION TECHNOLOGY' is a bonafied work carried out by Ms. Samathashree K (Reg.no. JBT20032) in purtial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore:

GUIDE(S):

Dr. Prasad M.P M.Sc., PHD Director of Sangene biotech,

Bengaluru-560071

Examiners:

Place: Mysore

Date

Varanth Patil H. T.

Dr. B.Y. Sathish Kumar Assistan Professor and fleed;

PG DeM Bedlio Technologous

1 4 8 College of 4 to Lummerte 9 Scien

Vijavendra Kumar

Principal, ISSCACS . See-

Ooty road, Mysore - 25.

FERMENTATION TECHNOLOGY

Project/InternshipReport

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of

Mysore

Submitted by

Mr. Sonu Aras R.

Reg. No. JBT20037

IV Semester

Under the guidance of

External Guide

Dr. Prasad M.P M.Sc., PHD Director of Sangene Biotech company

2nd Cross, Sigma Consultants, Krishna Reddy Colony, Domlur Layout, Bengaluru-560071, Kamataka, India

Internal Guide



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified project/internship report entitled FERMENTATION that TECHNOLOGY'isabonafied work carried out by Mr. SONU ARAS R. (Reg.no.JBT20037) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Dr. Prasad M.PM.Sc., PHD Director of Sangene biotech, Bengaluru-560071

Dr Poonom S. Jaiswal

Examiners

2

Place: Mysore

Date:

R.Y. SALIX Assistant Professor and Head.

Prof. M. P. Vijavendra Kumar Principal ISSCACS

Ooty road, Mysore - 25

QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS

Internship Report

Submitted to the Postgraduate Department of Biotechnology, ISS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of

Mysore

Submitted by

Ms. INCHARA, M.K.

Reg. No. JBT20012

IV Semester

Under the guidance of

External Guide

Ms. LAVANYAVATHI. S.V

Deputy manager of Quality control

DEPT. OCMYMUL.

Internal Guide

Dr. B.Y. SATHISH KUMAR

Ambitant Professor and Head,

PG Dept. Of Bis-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'QUALITY ANALYSIS AND QUALITY CONTROL OF MILK AND MILK PRODUCTS is a bonafide work carried out by Ms. INCHARA MK (Reg. no. JBT 20012) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide

MS.LAVANYAVATHI S.V.

Deputy manager of Quality control DEPT of MYMUL

Internal Guide -

Dr. Poonom Jaiwal

Examiners:

1.

2. NO LO

Place: Mysore

Date:

Dr. B.V. Sathish Kumar

Assistant Professor and Head.

THE CHIEST HAT TECHNOLOGY & Sen

Puty Baud, Mysors 570 078

-5 ProfeM. P. Vijayendra Kumar

Principal, ISSCACS School

Ooty road, Mysore - 25.

QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCTS.

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru

Submitted by

PRADEEPKUMAR K N Reg.No: JBT20019 IV Semester

Under the guidance of

Ms. Lavanyavathi S V Head of quality control DEPT. MYMUL



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru MYSURU-570025

(An Autonomous College of University of Mysuru)

MYSURU -570025

Re-accredited by NAAC with A Grade, CGPA:3.21 Recognized by UGC as college with Potential for Excellence



Postgraduate Department of Biotechnology

Certificate

This is to certify that Mr. PRADEEPKUMAR K N (Reg.No:JBT20019) Has completed the project work on GOUALITATIVE ANALYSIS OF MILK AND MILK PRODUCT" at J S S College University of Mysuru, during IVSemester of his final M.sc. Biotechnology course as a partial fulfilment of the requirement to award M.sc. Degree in Biotechnology by J s s college ooty road Mysuru.

GUIDE:

External guide:

Ms.Lavanyavathi S V Head of Quality control

Dept. MYMUL

Internal guide: Mehawar

Examiners:

Date:29/07/2022

Place:mysore

Dr. B Y Sathish kumar

Assistant or offes sor (Hear man)

Post graddate behartheit Billtech Callege of A ta Lummerte 5 Science

Bots Bowd, Mystera 57u 025

prof . M .P vijayendra kemar principle ISS CAES

Ooty road mysore

IN VITRO REGENERATION OF SHOOTS FROM NODAL EXPLANTS OF MULBERRY (Morus indica L.) cv. AGB8

Dissertation of Project work

Submitted by

MS. BHOOMIKA B V

(JBT 20005)

Master of Science (M. Sc. Biotechnology)

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

OOTY ROAD, MYSURU- 570025



Under the Guidance of

DR. TANMOY SARKAR

Scientist-C

Mulberry Breeding and Genetics Laboratory

In partially fulfillment for the requirements of

MASTER OF SCIENCE IN BIOTECHNOLOGY



Central Sericultural Research & Training Institute
(Central Silk Board, Ministry of Textiles, Govt. of India, Srirampura
Mysuru-570008)
2022

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous under University of Mysore)MYSORE-570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "IN VITRO REGENERATION OF SHOOTS FROM NODAL EXPLANTS OF MULBERRY (Morus indica L.) cv.AGB8" is a bonafied work carried out by Ms. BHOOMIKA B V (JBT20005) in partial fulfilment of the requirements for the of Master of degree in Biotechnology of University of Mysore.

Dr. Tanmov Sarkar

Signature of Guide

Examiners:

Place:

Date:

Dr. B Y Sathish Kumar

Assistant Professor and HOD (IC), Postgraduate Department of

Biotechnology.

Dr. M. P. Vijayendra Kumar

Principal, JSSCACS Ooty Road, Mysore-25 College of 4 ts Lummers 9 School

Buty Years, Mysulft 570 025

JS& College of Arts, Commorce & Scien Ooly Road, MYSURU-25

QUALITY CONTROL AND QUALITY ASSURANCE

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr.DARSHAN H R

Reg. No. JBT20008

IV Semester

Under the guidance of External Guide

Ms.S.V.Lavanyavathi

Mymul KMF Mysore

Internal Guide

Mr. Dr. B.Y. Sathish Kumar Assistant Professor and Head, PG Dept. of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

2022



Postgraduate Department of Biotechnology CERTIFICATE

Certified that project report entitled

'Quality Control & Quality Assurance of Dairy Products 'is a bonified work carried out by Mr DARSHAN H R (Reg.no- JBT20008) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore.

GUIDE:

External Guide:

Ms.S.V.Lavanyayathi

Mymul Mysore

Name & Signature of the Guide

Internal Guide -

Prof. M. B. VIJAYENDRA KUMAR

R.y. SAZ X

Assistant Profession and Mend,
PC Dept. of Bio-Lechnologyerses.

Principal, JSSCACS
Ooty road, Mysore - 25.

Examiners:

9

2.

.....

Place: Mysore Date: 29-07-2022

GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr.PUNITH S R

Reg. No. JBT20023 IV Semester

Under the guidance of

Mr.RAKESH D

General manager

Laurus Bio Pvt Ltd Tumkuru

Mr.PARTHIBAN G

Production manager

Laurus Bio Pvt Ltd Tumkuru



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT' is a bonafied work carried out by Mr.PUNITH.S.R.(Reg.no. JBT20023) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -Mr.RAKESH D

General manager

Laurus Bie Pet Ltd Tumkure

Mr.PARTHIBAN G

Production manager

Laures Bio Pet Ltd Tumburu

Internal Guide - 18how

Examiners:

Place: Mysore

Dr. B.Y. Sathish Kumar

Assistant Professor and Head

PG Dept of Bio-Technology L & E College of & Th. Commit

Bety Read, Mysors 574 075

Prof. M. P. Vijavendra Kumar

Ooty road, Mysore

Pege 12

BAL PHARMA LIMITED

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfilment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SAHANA S G

Register No: JBT20030

IVth Semester

Under the guidance of

Dr. B. Y. Sathish Kumar

Head of Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science, Ooty Road, Mysore.

Mr. Abhishek

Quality assurance Manager

Mr. Ravindranath

Quality control Manager

Bal pharma limited Bommasandra Bangalore-560105

July-2022

JSS Muhavidyapeeta

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC "A" Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025



CERTIFICATE

Certified that project report entitled GENERAL INDUSTRIAL TRAINING IN QUALITY CONTROL AT 'BAL PHARMA LIMITED is a bonified work carried out by Ms. SAHANA S G (Reg.no. JBT20030) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2021 – 22

ProbiM.P. Vijayendra Kumar

Posision professor and Head,

PG Dept. of bio-technology

Dr. B. Y. Sathish Kumar

Assistantial for Designation of the

Postgradubier Department offer

Barry board the

PlotTechnology, Lummers 5 Science

Internal guide :- Januar

Vasarat, Patil 4.3

Examiners:

1. Shee

1.30107/2022

Place: Mysore

30/9/22

QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCTS.

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS

College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysuru

Submitted by

Yashwanth prasad Reg.No: JBT20047 IV Semester

Under the guidance of

Ms. Lavanyavathi S. V Head of quality control DEPT. MYMUL



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru MYSURU-570025

(An Autonomous College of University of Mysuru)

MYSURU -570025

Re-accredited by NAAC with AGrade, CGPA:3.21Recognized by UGC as college with Potential for Excellence



Postgraduate Department of Biotechnology

Certificate

This is to certify that Mr.YASHWANTH PRASAD (Reg.No:JBT20047) Has completed the project work on QUALITATIVE ANALYSIS OF MILK AND MILK PRODUCT" at JSS College University of Mysuru, during IV Semester of his final M.sc. Biotechnology course ,as a partial fulfilment of the requirement to award M.sc. Degree in Biotechnology by JSS college ooty-road Mysuru.

GUIDE:

Ms.Lavanyavathi S V Head of Quality control Dept. MYMUL

Dr. B Y Sathish kumar

Assemble professor Head of Post graduate Department

Biotechnology

Signature of the guide-

Internal Guide - Ma Abigon Cumker

Prof. M. P. Vijayendra Kumar Principle JSSCACS Ooty road Mysuru

Examiners:

4.5 College of Arts, Commerce

Evaluation On The Quality Control of IMMUNOSUPPRESSANT

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

SAHANA.C.V. Reg.No. JBT20028 IV Semester

Under the guidance of

EXTERNAL GUIDE

MR. RAJA SEKHAR REDDY R

Assistant manager of QC small molecule API, Biocon Limited, Bangalore INTERNAL GUIDE



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

This is to certify that internship report entitled "Evaluation on the Quality Control of immunosuppressant" is a bonafide work carried out by Sahana.C.V. (Reg.no.JBT20028), in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDES:

External Guide

Raja Sekhar Reddy, R.

Assistant Manager.

Department QC small API,

Biocon Limited, Bangalore.

Internal Guide

Examiner:

Dr. B. Y. Sathish kumar

Assiment of the Part head?

PG Dept of Biotechnology

Opty Sauc. Mysore 52st (194

5 3 Compres N. P. Vijnyelitra kumar

Wantermand Principal, ISSCACS

Ooty Road, Mysore.

Place: Mysore

Date:

GENERAL INDUSTRIAL TRAINING

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of

University of Mysore

Submitted by

Ms. DEEKSHA B.P

Reg. No. JBT20009

IV Semester

Under the guidance of

External Guide

Mr. Irfanulla Sharieff

Chief Scientific Officer

Triphase Pharmaceuticals Pvt Ltd, Mysore

Internal Guide



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled "GENERAL INDUSTRIAL TRAINING" is a bonified work carried out by Ms. DEEKSHA B.P REG. NO. JBT20009 in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUID	E(S):
------	-------

Signature of the guide

[m. Madrel External guide- Mr. Irfanulla Sharieff

Internal guide-

Examiner

Place: Mysore

Date

Dr. B.Y. Sathish Kumar

Assistant@botfek@w Reer Preside

PG Depe of Bio-Technology

Opts Hood, Mesura 570 024

a Prof. M.P. Vijayendra Kumar

Principal, JSSCACS

Ooty road, Mysore - 25.

"INDUSTRIAL TRAINING"

Internship report

Submitted to the Post graduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by:

Mr. ABDUL RIYAZ A.E.

JBT20001

II M.Sc. – IV SEMESTER

PG- BIOTECHNOLOGY

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE, MYSORE

Under the guidance of:

Mr. ESHWAR REDDY DEPUTY MANAGER BIOPLUS LIFE SCIENCES PRIVATE LIMITED, BANGALORE-560048



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE - 570025 JULY 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'INDUSTRIAL TRAINING' is a bonafide work carried out by Mr. Abdul Riyaz A.E. (Reg. No. JBT20001) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

External guide

Mr. ESHWAR REDDY

Signature of the guide

Internal Guide -

Examiners:

1.

2.

Place: Mysore Date: 29/07/2022 Dr. B.Y. Sathish Kumar

Assistant Professor and Head,

PG Dept. of Bio-rechnology

Betty room Streets 57st 7378

Prof. M. P. Vijayendra Kumar

Principal, JSSCACS

Ooty road, Mysore 224

THE EFFECT OF PLANT GROWTH REGULATORS ON INVITEO REGENERATION OF SHOOTS IN MULBERRY (Morus indica ev. AGB8) FROM SHOOT TIP EXPLANT

Dissertation of Project work

Submitted by Ms. MAMATHA S (JBT20015) IV Semester

Under the Guidance of Dr. TANMOY SARKAR (Scientist-C) Mulberry Breeding and Genetics Laboratory



Central Sericulture Research & Training Institute (Central Silk Board, Ministry of Textiles, Govt. of India Srirampura Mysore-570008)



Post graduate Department of Biotechnology
JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE
(An Autonomous College of University of Mysore)
2022

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (Autonomous under University of Mysore) MYSORE-570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "THE EFFECT OF PLANT GROWTH REGULATORS ON IN VITEO REGENERATION OF SHOOTS IN MULBERRY (Marus indica ev. AGB8) FROM SHOOT TIP EXPLANT" is a bonafied work carried out by Ms. MAMATHA S (BT20015) in partial fulfilment of the requirements for the of Master of degree in Biotechnology af University of Mysores 4\$1/07/2022

GUIDE: Dr. 1 anmoy Sarker

Senature of Guide:

Examiner

Place; Date:

Dr. B Y Sathish Kumar

Assistant Professor and HOD (IC).

Posgraduate Department of Biotechnology

^{br, M, P, Vijayendra Kumar} Principal ISSCACS

Ooy road, Mysore-25

JS6 CoRege of Arts. Commerce & Sci. Only Road, MYSURU-25

QUALITY CONTROL AND QUALITY ASSURANCE

Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of

Mysore

Submitted by

Mr.LOHITH P

Reg. No. JBT20014

IV Semester

Under the guidance of External Guide

Ms.S.V.Lavanyavathi

Mymul KMF Mysore

Internal Guide

Mr. Dr. B.Y. Sathish Kumar Assistant Professor and Head, PG Dept. of Bio-Technology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology CERTIFICATE

Certified that project report entitled Quality Control & Quality Assurance of Dairy Products 'is a bonified work carried out by Mr LOHITH P (Reg.no- JBT20014) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore.

GUIDE:

External Guide:

Ms.S.V.Lavanyavathi

Mymul Mysore

Name & Signature of the Guide

B.4. SALA

Internal Guide -

Prof. M. P. VIJAYENDRA KUMAR

Assistant Renforman and Head,
PG Depose Blockes havings

1 4 5 College of A to Commerce 9 Sections
But Touc Ments South

Principal, JSSCACS

Ooty road, Mysore - 25.

Examiners:

1.

2

Parlanes

Place: Mysore Date: 29-07-2022

QUALITY ANALYSIS OF MILK AND MILK PRODUCTS

Internship Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

DOOPASHREE C V

Reg. No. JBT20011 IV Semester

Under the guidance of

External Guide

LAVANYAVATHI

Deputy Manager Q C Department of Myssul, Mysore Internal Guide

Dr. B Y SATHISH KUMAR

Assistant Professor and Head, PG Dept. of Biotechnology



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled "Qualitative Analysis of Milk and Milk Products" is a bonafied work carried out by Ms. Doopashree C.V. (Reg.no. JBT20011) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

External Guide -Lavanyavathi Deputy Manager QC Dept.of Mymul

Internal Guide -

Assistant Professor and Head.

PG Dephi distributi echnology AR & College of A. ta Lummerta & Sciano

Bete Beut, Menure & inttra

Prof. M. P. Vijavendra Kumar

Principal, JSSCACS

Ooty road. Mysore - 25

Examiner

Place: Mysore

Date

ROLE OF Cu, Zn & Se NANOPARTICLES IN THE BIO CONTROL OF RHIZOCTONIA SOLANI & FUSARIUM OXYSPORUM

Project Report

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore

Submitted by

Mr. DEEKSHITH C S

Reg. No. JBT20010 IV Semester

Under the guidance of

Dr. REKHA N D

Assistant Professor



Postgraduate Department of Biotechnology JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025

JULY 2022

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled 'ROLE OF Cu, Zn & Se NANOPARTICLES IN THE BIO CONTROL OF RHIZOCTONIA SOLANI & FUSARIUM OXYSPORUM 'is a bonafied work carried out by Mr. DEEKSHITH C S (Reg.no. JBT20010) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Guide: -

Dr. Rekha N.D.

Assistant Professor

PG Dept. of Bio-Technology

Examiners:

l.

2,

Dr. B.Y. Sathish Kumar Assistant of the wand highd.

Assistant of the Control of the Cont

PG Deplet Hib Technology

1 6 B College of A.ts. Lummerte 9 Scram

Bats Saud. Mesura \$70,700

Prof. M. P. Vijayendra Kumar

Principal, ISSCACS

Ooty road, Mysore -570025

Place: Mysore

Date

QUALILATIVE ANALYSIS OF MILK AND MILK PRODUCTS

InternshipReport

Submitted to the Postgraduate Department of Biotechnology, JSS College of Arts, Commerce and Science in partial fulfillment of the requirements for the award of Master of Science (M.Sc.,) degree in Biotechnology of University of Mysore

Submitted by

Mr.PRASHANTH N K

Reg. No. JBT20022 IV Semester

Under the guidance of External Guide

Ms.LAVANYAVATHI S V

Deputy manager (Qc department)

MYMUL

Internal Guide



Postgraduate Department of Biotechnology

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

(An Autonomous College of University of Mysore)



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'QUALILATIVE ANALYSIS OF MILK AND MILK PRODUCTS'isabonafied work carried out by Mr.PRASHANTH N K (Reg. no. JBT20022) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Ms.LAVANYAVATHI S V

Deputy manager (Qc department)

MYMUL

Internal Guide -

Dr. B.Y. Sathish Kumar

Assistant Professor and Head.

PG Dept pof Bio-Technology

Buty Baud, Menura 570 freis

Prof. M. P. Vijayendra Kumar

os opinegoldsSCACS.

Oory road, Myselre 250-

Examiners:

I.

3

Date:29/07/2022

Place: Mysore

Title of the Project

GREEN SYNTHESIS OF SILVER NANOPARTICLE BY MULTIVOLTINE COCOON AND MULBERRY BARK EXTRACTS: ITS ANTI FUNGAL ACTIVITY

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science

in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Ms. SNEHA.P Reg.No. JBT19037

IV Semester

Under the guidance of

Dr. RAVINDRA

Scientist -C

CSRTI Mysore

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade &College with Potential for Excellence)

OOTY ROAD, MYSORE -570025

2021



Certified that project report entitled "Green synthesis of silver nanoparticles using multivoltine cocoon and mulberry bark extract: Its antifungal activity" is a bonafied work carried out by Ms. SNEHA P JBT19037 in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2021 - 22.

GUIDE:

Dr. Ravindra

Name & Signature of the Guide

Dr. B.Y. Sathish Kumar

R.y. Strik

Assistant Professor and Head

Postgraduate Department of Bio-Technology

A & College of this Lummeire 9 Science

Bett free Menns Storms

1. 2. C.Y. CA. X.

Place: Mysore

Prof. H. C. Honnappa

Principal, JSSCACS

Ooty road, Mysore - 25.

Title of the Project

GREEN SYNTHESIS OF SILVER NANOPARTICLE BY BIVOLTINE COCOON AND MULBERRY STEM EXTRACTS: ITS ANTI FUNGAL ACTIVITY

Dissertation/Project Report

Submitted to the

Postgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science
in partial fulfillment of the requirements for the award of

Master of Science (M.Sc.) degree in Biotechnology of University of Mysore

Submitted by

Mr. AKSHATHA M S

Bug, No. JBT 19002 IV Semmter

Under the guidance of

Dr. RAVINDRA Scientist -C CSRTI Mysore

JSS Mahavidyapeetha

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade & College with Potential for Excellence)

OOTY ROAD, MYSORE -570025

2021



Certified that project report entitled "Green synthesis of silver nanoparticles using Bivoltine cocoon and mulberry Stem extract: Its antifungal activity" is a bonified work carried out by Ms. AKSHATHA M S JBT19002 in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2021 – 22.

GUIDE:

Dr. Rayindra

Produgo -

Name & Signature of the Guide

Dr. B.Y. Sathish Kumar

Assistant Professor and Head

Postgraduate Department of Bio-Technology

Anna of the Ucpartment

PG Dept of Rietz minings

& & & College of A.ta Committee & Science

Bath Smit Mymich & Til 1916

Examiners:

1. Scher

2. BY SAIX

Place: Mysore

Date: 3 9 2

Prof. H. C. Honnappa Principal, JSSCACS

Ooty road, Mysore - 25.

JSS Codeys of Arts, Companies & Science Oots Rose MYSURUMS MYSORE -570025

August/September - 2023

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

that project/internship report entitled 'ANALYSIS OF ACTIVE Certified PHARMACEUTICAL DRUG SOLIFENACIN SUCCINATE BY HPLC AND GC METHODS' is a bonafied work carried out by Mr.Sangam HY (Reg.no. P01BE21SO270) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Dr. Raghavender Rao Desai, Director -Analytical Research Developmenti)

Internal Guide -Dr.B. Y. Sathish Kumar

HOD, PG Dept of Bio-Technology

1. 1 hussmol 73 (4)23

Postgraduate Department of Biotechnology JSS College of Arts. Commerce and Science (Autonombus)

Doty Road, MY SORE-579 625

Dr. S. Pratibha Principal JSSCACS

Ooty rgad, Mysusru - 25

2



NJD/HR/PTC/2023-24/ 50

August 68, 2623

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Sangam H Y, S/o Yathish Kumar H & [Reg No: P01BE21S0270] pursuing M.Sc. Biotechnology in JSS College of Arts. Commerce and Science (Autonomous), Mysore has successfully completed him Internship in our Organization from 08th May 2023 to 08th August 2023.

He has completed the Internship under the guidance of Mr. Raghavender Rao Desai. Director -Analytical Research Development.

During his study, Mr. Sangam H Y has shown keen interest and completed the lenerming successfully.

We wish him success in future endeavors.

For JUBILANT PHARMOVA LIMITED

DIRECTOR-HUMAN RESOURCES

Charles Marris Company



Section 1997 (1997)

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'Development of inoculum, scaling up process and downstream process involved in the production of serratiopeptidase in an industrial set up' is a bonafied work carried out by Ms.Harini Irappa Gadadavar(Reg.no.P01BE21S0189) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -Mr.Sudharsanan N

Sr.Manager-Biologica

Anthem Biosciences Pvt Ltd

Internal Guide - William

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Doty Road, MYSORE-570 025

Examiners:

1. For algan 2003

2.

Place: Mysore

Date:

Principal



Anthem Brosciences Pvl. Ltd

To Whomsoever It May Concern

Certificate of Internship Training

This is to certify that Ms. Harini Irappa Godadavar has successfully completed her internship training from 12th June ,2023 to 12th August ,2023 in biological department under the guidance of Mr.SUDHARSANAN N.

We found her sincere and hard working during her tenure. We wish her all the best in her future endeavors.

Best Regards

From ANTHEM BIOSCIENCE PVT.LTD

S Sunil kumar

Sr. Manager -HR

[An Autonomous College of University of Mysore]

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled "Establishment of a cultural base and enhancement of the serratiopeptidase production process in an industrial setting" isa bonafied work carried out by Ms . Harsha Mahantesh Patil (Reg No .P01BE21S0212)in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -Mr.Sudarsanan N

Sr.Manager-Biologics

Anthem Biosciences Pvt Ltd

Internal Guide - Dr. B. Y. Satish Kumal

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

17 4 CAT -1

Postgraduate Department of Biotechnolog-JSS College of Arts. Commerce and Science (Autonomous)

Dory Road, MYSORE-578 025

Examiners:

20/09 2023

Place: Mysore

Date:

Principal



IDE ARTS (BED/Touris) For (FAD) (E-September SED)

Anthum Biosciences Pvt. Ltd.

40 P. A. J. Samou April Proc. 1 Berneumber (Summarber Proc. 1 Retrieved (Bergelon, 1907)

IDE | DAIL NAMED TO DO DE LE SE LE S

To Whomsoever It May Concern

Certificate of Internship Training

This is to certify that Ms. Harsha Mahantesh Patil has successfully completed her internship training from 12th June ,2023 to 12th August ,2023 in biological department under the guidance of Mr. SUDHARSANAN N.

We found her sincere and hard working during her tenure. We wish her all the best in her future endeavors.

Best Regards

From ANTHEM BIOSCIENCE PVT.LTD

S Sunil Kumar

Sr. Manager -HR

(An Autonomous College of University of Mysore):

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project report entitled "FUNCTIONAL STUDIES OF SPICE-ENRICHED NUTRITIONAL SUPPLEMENTS" is a bonafied work carried out by Ms.Tejashree M U (Reg.no. JBT21041) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Dr. M.V.S.S.T SubbaRao

Professor of Cellular & Molecular Biology, CEMR Laboratory, Department of Biochemistry, ISS Medical MYSURU

College, Mysuru.

B.Y. Sathish Kumar

HOD, PG Dept. of Biotechnology Head of the Department

Postgraduale Department of Signechnolog JSS College of Arts. Commerce and Scient

(Autonomous) Opty Road, MY SORE-570 025

Dr. Ravindra P Vecranna

Director of MSLV4 Endurance Pvt.Ltd JSSAHER Sparkle Cine, Mysuru.

Internal Guide -

Dr. Bhavya G, MSc/PhD,

Asst. Professor, JSS College, of Arts Commerce and Science Ooty Road, Mysuru.

Examiners:

Place: Mysore 21

Date.

Dr. S. Prathibha, MSc, PhD

Principal, JSS College of Arts

Commerce and Science, Ooty Road,

Mysore:







Certified that project report entitled "FUNCTIONAL STUDIES OF SPICE-ENRICHED NUTRITIONAL SUPPLEMENTS" is a bonafied work carried out by Ms.Tejashree M.U (Reg.no. JBT21041) in joint collaboration between MSLV4 Endurance Pvt. Ltd. and Department of Biochemistry, JSS Medical College, JSSAHER for partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

For MSLV4 Endurance Pvt. Ltd.

Signature of the Director

Director

Mrs. Shwetha Gonchigar Chandrappa Director of MSLV4 Endurance Pvt Ltd. JSS Sparkle Cine JSSAHER, Mysuru-570015



Address

JSS Academy of Higher Education & Research JSS Medical Institutions Campus, Bannimantap A Layout, Bannimantap, Mysuru, Karnataka 570015

CERTIFICATE

Certified that project/internship report entitled "Influence of Solvent Evaporation on the Physicochemical Properties of Topical Gels" is a bonafied work carried out by Ms. SANJEEVINI (Reg.no. P01BE21S0394) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Dr. H N Shivakumar

Founder Director

(Guide Certificate may also be attached as a separate certificate on company's letter head with seal)

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Biotechnology

Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts. Commerce and Science (Autonomous) Doty Road, MYSORE-570 025

Internal Guide -

Examiners:

Place: Mysore

Date:

Pruthibha.S

Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'Characterization Of Active Pharmaceutical Drug – Irbesartan By HPLC & Gas Chromatography' is a bona fide work carried out by Ms. Tanushree G R (Reg.no. P01BE21S0258) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide

ribitus

Dr. Bhavya Guru Lingaiah

Assistant professor

PG Department of Bio-Technology

Examiners:

1. Janguro /48/9/23

2 Rechard 10

Place: Mysore

Date: 2 1 - 9-23

Dr. B.Y. Sathish Kumar

By SAL

HOD, PG Dept. of Bio-Technology

Head of me Department

Postgraduate Department of Biotechnolog JSS College of Arts, Commerce and Scient (Autenomous)

Oaty Road, MYSORE-579 075

Principa

- 2



KJD/HR/PTC/2023-24/ 37

July 31, 2023

TO WHOM SO EVER IT MAY CONCERN

this is to certify that Ms. Tanushree G R, D/o G Ramesh [Reg No: JBT21040] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous), Mysore has successfully completed her Internship in our Organization from 29th May 2023 to 28th July 2023.

She has undergone training under the guidance of Mr. Raghavender Rao Desai,
Director - Analytical Research Development.

During her study, Ms. Tanushree G R has shown keen interest and completed the Internship successfully.

We wish her success in future endeavors.

For JUBILANT PHARMOVA LIMITED

SUBRAHMANYA A

DIRECTOR-HUMAN RESOURCES



(An Antonomous College of University of Mysore)

MYSORE - 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Analysis of active pharmaceutical drug-Ticagrelor by HPLC and Gas chromatography' is a bonafied work carried out by Ms. Sonika M Raj (Reg.no. P018E21S0366) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Dr Ragavendra Rao Desai

Internal Guide - Moderal Dr. Mallikarjun B Chougala

Examiners:

1. 5

4

Place: Mysore

Date

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Doty Road, MYSORE-570 025

Principal

2



UD HR/PTC/2023-24/ 85

September 15, 2023

TO WHOM SO EVER IT MAY CONCERN

this is to certify that Ms. Sonika M Raj, D/o Mohanaraja [Reg No: P01BE21S0366] M.Sc. Biotechnology in JSS College of Arts, Commerce and Science Autonomous). Mysore has successfully completed her internship in our Organization from 19th June 2023 to 18th August 2023.

See has completed the Internship under the guidance of Mr. Raghavender Rao Desai, pirector - Analytical Research Development.

During her study. Ms. Sonika M Raj has shown keen interest and completed the interesting successfully.

We wish her success in future endeavors.

For JUBILANT PHARMOVA LIMITED

SUBRAHMANYA A

DIRECTOR-HUMAN RESOURCES



25.00

1000

As Autonomous College of Liniversity of Mysone)

MYSORE-570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project internship report entitled 'Internship report on 'Mammalian Erythrocyte Micronucleus test'is a bonafide work carried out by Ms. VANDANA B G (Reg, no. /BT21046) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE SI

Expernal Guide-

Internal Gusde-

Examinets:

Place: Mysore

Date

Dr. Samith Kadam

HOD, Department of Genotoxicology

Viprage Ploscien Pyt Ltd MYSORE 570 018

Mr. Vasanth Patil

Assistant Professor,

PG Dept of Biotechnology

Head of the Department

Pestgraduate Department of Biotechnology JSS Conege of Arts, Commerce and Science (Autonomous)

Outy Road, MY SORE-578 025

(An Autonomous College of University of Mysore)
MYSORE -570025



Postgraduate Department of Biotechnology CERTIFICATE

Certified that internship report entitled industrial internship on 'ANALYSIS OF ACTIVE PHARMACEUTICAL INGREDIENTS' is a bonafide work carried out by Ms. RAKSHITHA J (Reg.no. POIBE21SO271) in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE

Mr. Vasanth Patil.H. B

Assistant Professor

Post graduate Department of Bio-technology JSS College of Arts, Commerce and Science Ooty Road, Mysuru-25 Dr.B.Y. Sathish Kumar

Assistant Professor and HOD PHead of the Department

JSS College of Arts, Commerce and Science (Autonomous)

Doty Road, MYSORE-570 075

Examiners:

1. Strong and falso

2.

Place: Mysore

Date

Principa



Date: 22.07.2023

INTERNSHIP TRAINING CERTIFICATE

This is to certify that Ms RAKSHITHA Dio JAGADISH student of Msc Biotechnology, ISS College of Arts, Commerce & Science College Mysore .She has been successfully completed intern-ship Training in our organization at Quality control Dept from 12.06,2023 to 22.07.2023 in BAL PHARMA LIMITED (Unit-1), Bangalore-560099.

For BAL PHARMA LIMITED

We wish her all the best for her future endeavours.

Authorized Signatory

CORPORATE OFFICE : 5th Floor, Lakshmi Noreyen Complex, 19/1, Palece Road, Bengalury - 560 052. India

Ph.: 91 - 80 - 41579500 Fax: 81 - 80 - 22354057 / 58 Email: Info@belpharma.com Wabalta: www.belpharma.com

CEN II LESTIONAISETPLCOGESES

1888-078 Industrial Area, Sangaturu - 560 000, Ph. 1880-41570811 / 13 / 16 Fax : 41570828

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

project report entitled SYNTHESIS OF Certified that NANOPARTICLES AND THEIR BIOLOGICAL ACTIVITIES is a bonn fide work carried out by Ms. Hema B S (Reg.no.P01BE21S0566) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide Dr. Rekha. N.D. M.Se., Ph.D. Assistant professor

PG Department of Biotechnology

Dr. B.Y. Sathish Kumar

HOD PG Brehe Dains tout Hology

Postgradums Department of Biolechnolds JSS College of Arts. Commerce and Science (Autonomous) Octy Road, MYSORE 570 025

Examiners:

Place: Mysore

Date

Principal Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENERAL INDUSTRIAL TRAINING IN

PRODUCTION DEPARTMENT is a bonafide work carried out by SANJAY RB in partial
fulfillment of the requirements for the award of Master of Science degree in Biotechnology of
University of Mysore.

Internal Guide:

Dr. B.Y. Sathish Kumar Head of the Department PG Dept. of Bio-Technology

Dr. B.Y. Sathish Kumar Head of the Department

respondente la éponnient

Postgraduate Department of Sintechnology JSS College of Arts. Commerce and Science (Autonomous)

Doty Road, MYSCRE-570 025

Examiners:

12/2 / Sang / Gal 978

10-31

Place: Mysore Date 21109/1623 Dr.S. Prathibha

Principal, JSSCACS

Ogto road, Mysuru - 15



Date: 75-59-2021

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that Mr. Sanjay R B M Sc. Biotechnology, has done for elements = 1.4747.

He full undergone framing on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS"

Ouring the internship training he demonstrated good design skill with a self-receivated attribute to learn new things. For performance exceeded expectations and was able to conquete the assigned tasks on time.

We winds him all the best for his future endeavours.

For Laurus Bio Pvt Ltd

takesh D

eneral Manager- Production

AURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.)
of No. 204 & 237, Sammasandra Jigani Link Read, E.LA.O.A. Industrial Area, Sangalore Surai District. Rematake. 140105. Shale
1 +91 - 8110 - 419777 F.; +91 - 080 - 2783 9574 W.; www.isunat.bio E.; infollowers.bio ETH. U03433EA2005F7C036FTR

AURUS Labs LAURUS Ingredients LAURUS Generics LAURUS Symme

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Microbiological techniques' is a bonafied work carried out by Ms. Veena M Kurahatti Desai (Reg.no. P01BE21S0302) in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE (S):

Signature of the Guide

External Guide -

Shridhar Angadi

(Guide Certificate may also be attached as a separate certificate on company's letter head with seal)

Internal Guide - Ma Abigno - auchon

Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Docy Road, MY SORE-579 025

Examiners:

1. Amoguns/25/9/23

2.

Place: Mysore

Date:

Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/intereship report entitled 'GENERAL INDUSTRIAL TRAINING PRODUCTION DEPARTMENT is a bonnfied work carried out by Ms. Kavya.R. (Regino PB01BE21S0411) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore,

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor Postgraduate Department of Bio-Technology 15% College, Ooty Road, Mysuru-25

Assistant Professor and HOD, PG Dept.

Heast old Techepholyment

Postgraduate Department of Biorechnologi-JSS College of Ana, Commerce and Science (Autonomous)

Opty Road, MYSORE-570 025

Peincipal

Examiners

Place: Mysore

Date:



Date: 05-09-2023

TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Ms. Kavya R M.Sc. Biotechnology has done her internship in Laurus Bio Pvt Ltd. From 14th June 2023 to 9th September 2023

She has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

During the internship training, she demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the assigned tasks on time.

We wish her all the best in her future endeavours.

For Laurus Bio Pvt Ltd

General Manager- Production

LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) Plot No. 204 & 237, Sommatandra Jigani Link Road, K.I.A.D.B. Industrial Area, Sangalore Rural District, Karnataka - \$60105, India. 1+91 - 8110 - 419777 # : +91 - 080 - 2783 9574 W : www.laurus.bio # : Info@laurus.bio # ! U02423KA2005PTC036770









Postgraduate Department of Biotechnology

CERTIFICATE

nanoparticles and their biological activities' is a bona fied work carried out by Ms. Bashini C (Reg.no.P01BE21S0569) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide

Dr. Rekha, N.D.

M.Sc., Ph.D.

Assistant professor

PG Department of Biotechnology

Examiners:

1. Shugaro 219/23

2.

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology Head of the Department

Pastgraduate Department of Biotechnolog-155 College of Arts. Commerce and Science

(Autonomous) Ooly Road, MY SORE-578 925

Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Analysis Of Solifenacian Succinate Drug By HPLC & Gas Chromatography' is a bona fide work carried out by Mr. Bharath A N (Reg.no. P01BE21S0255) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide

Dr. Mallikarjun B Chougala

Assistant Professor

PG Department Of Bio-Technology

Examiners:

1. School into

2.

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous) Ooty Road, MYSORE-578 025

Ameipal

(An Autonomous College of University of Mysore)

MYSORE 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled GENERAL INDUSTRIAL TRAINING IN PRECLINICAL AND MICROBIOLOGY AT RADIANT RESEARCH SERVICES PVT LTD, is a bonified work carried out by Ms. Kavya Timmappa Hegde (Reg.no. P01BE21S0233) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

DR. GOPJ MUREEDU

Dr. B.Y. Sathish Kumar

Head of the Department ogy
PostAssDeplant Byo a control
253 College of Arts, Commerce and Science

(Autonomous)
Only Road, MY SORE-576 025

Internal Guide - MBH

Examiners:

70

Principal



4º Sept 2023

CERTIFICATE

This is to certify that, Ms. Kavya Hegde (JBT21016), a bonafied student of JSS college of arts commerce and science Ooty road Mysore, in partial fulfillment of M.Sc. Biotechnology has successfully undergone the training programme on Preclinical and Microbiology internship conducted at our R&D centre. Bangalore during the time period from 23rd May 2023 to 04" September 2023.

We wish her Good luck in her future endeavors.

Ashok godavarthi CEO

Digitally signed by Ashok godovanthi Date: 2023.09:14 18:01:50



RADIANT RESEARCH SERVICES PVT.LTD.

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled' Preclinical screening of selected compounds on experimental mice C57BL/6 mice for antiobesity' is a bonafied work carried out by Ms. Neeta Sudarshan Hegde Reg.no. P01BE21S0227 in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Mr. Dinesh K.G

Internal Guide - 🌃

Dr. B.Y. Sathish Kumar

HOD PG Dept. of Bio-Technology Head of the Department

Pastgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autenamous)

Only Road, MYSORE-578 025

Examiners:

1. asher relentes

2

Place: Mysore

Date:

Principal



4" Sept 2023

CERTIFICATE

This is to certify that, Ms. Neetha Hegde (JBT21819), a bunafied student of JSS college of arts commerce and science Ooty road Mysore, in partial fulfilliment of M.Sc. Biotechnology has successfully undergone the training programme on Preclinical and Microbiology internship conducted at our R&D centre, Bangakere during the time period from 23rd May 2023 to 04rd September 2023.

We wish her Good kack in her future endeavors.

Ashok godavarthi Digitally signed by Asholi godavanhi Date: 2023-09/14/1804:35 ~05/30*

CEO

2

RADIANT RESEARCH SERVICES PVT.LTD.

RADIANT RESEARCH SERVICES PVT LTD

(An Autonomous College of University of Mysore)

MYSORE -570025



POSTGRADUATE DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

Certified that project/internship report entitled 'INVITRO CELL CULTURE EQUIPMENT HANDLING' is a bonafied work carried out by Ms. Kavitha R (Reg no. P01BE21S0279) in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE:

Signature of the Guide

Internal Guide - 🍽 🗠

Examiners:

6. Spagmof 2 gois

2.

Place: Mysore

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

11.4. DAV X

Head of the Department

Postgraduate Department of Sictechnolog JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, MYSORE-570 025

Dr. S. Prathibha



Date: 29/08/2023

INTERNSHIP CERTIFICATE

This is to certify that, Ms. Kavitha.R, Student Registration No. JBT21015 studying M.Sc Biotechnology with JSS College of Arts. Commerce and Science. University of Mysore, Karnataka, has successfully completed her industrial Training 3 months starting from (1" June 2023 – 29th August 2023) in our Organisation Stellis Biopharma Limited.

We wish her all the best in her future endeavours.

Thank You,

For Stells Biopharma Ltd.

Kiran Kumar S

Director - Human Resources

Stells Biopharina Limited

(Formery State Bophaims Private Linded)

REGD OFF Star I, Oco EM Bongaiore, Biekahali, Barnerghotz Rous Bengulus - 960 076, India

Tel: +94 82 6784 0200

E intelligence com I Williams (MAI) (com

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled "PRODUCTION OF MULTIVITAMIN TABLETS" is a bonafied work carried out by Ms. Thanuja. G. C (Reg.no. P01BE21S0380) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

21/09/2023

GUIDE(S):

Dr. Mallikarjun Chougala

Assistant Professor

PG Dept. of Bio-Technology

Examiners:

1

2

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar

Assistant Professor and HOD,

PO ENGLISHER DEPARTMENT OF BIOTechnology

JSS College of Arts, Commerce and Science (Autonomous)

Octy Road, MYSORE-571 025



Date August 31, 2023

CERTIFICATE OF INDUSTRIAL TRAINING

This is to certain that MS, THANEJA G C, bearing registration number BET 2003; N. S. (Diotechnology) student of JSS COLLEGE OF ARTS, COMMERCE AND SCH NCT. (buty Road, Mysore, has successfully completed Three Months industrial intention on our Formulation plant, at BIOPLA'S LIFE SCIENCES PRIVATE LIMITED, Pharmed Gardens, Whitefield Read, Bangalore - 560 04E, from May 22nd and 2023 to August 31nd, 2023.

She has also worked briefly in Production Unit, Quality Assurance Department, Quality Control Department and Analytical Laboratory. During the training we have found her conduct good and hard working.

We wish her all the best in her future ventures.

OF BIOPLUS LIFE SCIENCES PRIVATE LIMITED.

VEDUORISED SIGNATORY

Bioplus Life Sciences Private Limited

Hage OR Begins Life Sciences Private Limited S. No. 10-1A. Holod Village: Kratevariaspuram Histi. Burganini - 560-048.

Phone: 91:80 - 4136-7160 Fax: +91:80 - 4127 6925; 2541 0177, 3941-0232.
E-mail: hampater@prophis in: eventophis in: CN: U0423396A2004PTC0335Ts

(An Autonomous College of University of Mysore)

MYSORE -570025



POSTGRADUATE DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

Certified that project/internship report entitled INDUSTRIAL PRODUCTION OF RECOMBINANT ENZYME (Taq DNA Polymerase) USED IN GENETIC ENGINEERING is a bonafied work carried out by Ms. Bhavana MV (Reg.no. P01BE21S0368) in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE

Signature of the Guide

Internal Guide -

Dr. B.Y. Sathish Kumar

HOD,

Postgraduate Department of Biotechnolog

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Doty Road, MYSORE-570 025

Examiners:

Dr. S. Prathibha

Principal

.

Place: Mysore

Date:



EZE BIOTECH PRIVATE LIMITED

SOM WINNESSPECIFICOMESS (STIM. PRANCESSSWILLING)

Date: 21/08/2023

CERTIFICATE

This is to certify that Ms Bhavana M V, M.Sc Biotechnology, Student of ISS College of Arts Commerce and Science has successfully completed three months internship work entitled "Industrial production of recombinant enzyme [Taq DNA Polymerase] used in genetic engineering" in our organization. During her tenure with us, we found Ms Bhavana to be honest, hardworking and responsible.

She deserves all encouragement. We wish her all the best for all her future endeavours.

Best Regards

De Gueuraj HB con a cso, tat sioteoi evi eto

DIFFCE: AIC-POTHY INSTITUTE OF THOMOLOGY, TRATHAGURI, OFF KANAKAPURA BOAD, REVICALURU SAGGEZ EX chromit Departure, the productions & the experimental productions & over 1/2 february

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Basic Analytical Instrumentation Techniques in Pharmaceutical Industry' is a bonafied work carried out by Ms. Varnashree N (Reg.no.P01BE21S0274) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -

1. Dr. Nitesh Kanyawar

HOD, ADL dept, Cipla Pvt Ltd. Bangalore

2. Mr. Surendra Kumar T

HQD. QC dept, Cipia Pvt Ltd, Bangalore

Internal Guide - Dr. Abignan Gurukar

Asst. Prof., JSS College, Ooty Road, Mysure

Examiners:

1. In want/40/4/29

1

Place: Mysore

Date

Dr. B.Y. Sathish Kumar HACO Of the Department logy respractuate Department of Bosechnology JSS Codege of Arts. Commerce and Science

(Autonomous) Osty Road, MY SORE-570 025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Analysis of drug Eslicarbazepine acetate by HPLC and GC method' is a bonafied work carried out Mr. Suman L (Reg.no. P01BE21S0235) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide

Dr. B.Y. Sathish Kumar HoD

PG Department of Biotechnology

Dr. B.Y. Sathish Kumar HOD, P.G. Dept. of Biog Trebnology

Postgraduate Department of Biotechnology JSS Culinia of Arts, Commerce and Science (Autonomeus)

Only Road MYSORE-578 025

Examiners:

1. Richery wiley me

2.

Place: Mysore

Date:



NJD/HR/PTC/2023-24/41

July 31, 2023

TO WHOM 50 EVER IT MAY CONCERN

This is to certify that Mr. Suman L., S/o Lingaraju L [Reg No: JBT21038] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous). Mysore has successfully completed his Internship in our Organization from 29th May 2023 to 28th July 2023.

He has completed the Internship under the guidance of Mr. Raghavender Rao Desai, Director -- Analytical Research Development.

During his study, Mr. Suman L has shown keen interest and completed the Internship successfully.

We wish him success in future endeavors.

For JUBILANT PHARMOVA LIMITED

SUBRAHMANYA A

DIRECTOR-HUMAN RESOURCES

Mint Bhartla Company

Saluting -



CERTIFICATE

"Quality Assessment of Glycyrrhiza glabra with Respect to Chemical Parameter in >25% Glycyrrhizin Extract" is a bonified work carried out by Ms. LIKHITHA G.P (Reg.ms. JBT21017) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S): Signature of the Guide

External Guide -Mr. ANILKUMAR H.V (SENIOR EXECUTIVE IN QUALITY CONTROL DEPARTMENT)

NATURAL REMEDIES PRIVATE LIMITED

5B. VeerSandra industrial area, Hosur road, electronic city, Bangalore 560100.

Internal Guide Dr. BHAVYA G

Ass.proff. of jssacs Mysore.

Pr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology

Head of the Department

Pastgraduate Department of Biotechnolog JSS College et Anx, Commerce and Science (Autonomous)

Only Road, MY SORE-570 025

DR. S Prathibha.

Suncipal.

Jascapp Ooty Mysore.

Examiners:

i salve

2.



31/08/2023

Certificate

Mrs. Likhitha.GP, from JSS college of arts commerce and sciences, Mysuru, has completed a 60-day project trainee program at the Research & Development Center, Quality Control, Department of M/s. Natural Remedies, Bengaluru during the academic year of 2023 under the supervision of Dr. Rojison Koshy.

> Dr. Rojison Koshy, Heald-Quality control, datural Remedies Pvt. Ltd.,

19th K.M. Stone, Veerasandra Indl. Area, Hosur Road, Electronic City (Post), Bangalore - 560 100 Ph: (080) 40209999

(An Autonomous College of University of Mysore) MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

DEPARTMENT IN NESTLE INDIA LTD.," is a bonafied work carried out by Ms. Pruthvi M J (Reg.no.P01BE21S0541) in partial fulfillment of the requirements for the award of Masterof Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Dr. Mallikarjun Chougala

Assistant Professor

PG Dept. of Bio-Technology

Dr. B.Y. Sathish Kumar

Assistant Professor and HOD, Head of the Department

POP Dependition Beatmakeny
JSS Calege St Arts, Commerce and Science

(Autonomous)

Octy Road, MYSORE-570 025

Examiners:

1. Jungund/849/23 2. Neworld

Place: Mysore

Date:

Nestlé India Limited

KIADB Industrial Area. Post Box No.24 Nanjangud: 571-302. Mysore District Karnataka Phone: (06721): 244600-244629 Email: Corporate@m.nestle.com Wubalta: www.nestle.in



Date 31" August 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms., Pruthvi M J, student of JSS College of Art, Commerce and Science, Mysore, has successfully completed her Project Work in our organisation as a part of her curriculum, from 24th May 2023 to 31th August 2023.

During the Project Work, we found her conduct good & she was sincere in her efforts to study and was much interested in the assigned work.

We wish her all the very best in her future endeavours.

NESTLE INDIA LIMITED NANJANGUD FACTORY

SRINIVAS MURTHY
MANAGER-CA

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'A Preliminary study on extracellular proteins and biosurfactants in yeast isolates under heavy metals stress' is a bonafied work carried out by Ms. Thanuja M Reg.no.P01BE21S0505 in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Internal Guide - Dr. ISHANN H. G

Examiners:

2.

Place: Mysore

Date

J.y. ALX Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology

Head or me Department

Pestgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, MYSORE-578 025

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'General Industrial training in proteins' is a bonafide work carried out by Mr. JANATH R (Reg.no. P01BE21S0247)in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Mr. Parthiban G

Dr. B.Y. Sathish Kumar

Ry. Ct

HOD, PG Dept. of Bio-Technology

Internal Guide - M& Alsgrow Guller

Examiners:

.

Place: Mysore

Date

Principal

2



TO WHOMSOEVER IT MAY CONCERN:

pes is to certify that Mr. Janath R M Sc. Biotechnology, has done his internship in Laurus Bio PACLES From 14th June 2023 to 9th September 2023.

He has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

During the internship training he demonstrated good design skill with a self- motivated attitude to learn new things. His performance exceeded expectations and was able to complete the assigned tasks on time.

We wish him all the best for his future endeavours.

For Laurus Bio Pvt Ltd

Rakesh D

General Manager- Production

LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) Plat. No. 204 & 237, Bommosandra Sigani Link Road, K.LA.O.B. Industrial Area, Bangalore Bural District, Exceptions - 560105 Inc. 1931, 8110. 2+91 - 8110 - 419777 7 : +91 + 080 - 2783 9574 W : www.lourus.bio F : info@faurus.bio C // : U02423KA2005PTC0367

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENERAL INDUSTRIAL TRAINING PRODUCTION DEPARTMENT' is a bonafied work carried out by Mr. Darshankumar. D (Reg.no.PB01BE21S0261) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor

Postgraduate Department of Sio-Technology ISS College, Doty Road, Mysuru-25 Dr. B.Y. Sathish Kumar

Assistant Professor and HOD, PG Dept.

rieuuksibateDepartment

instgraduate Department of Biotechnology ISS College of Arts, Commerca and Science (Autonomous)

Pinty Road, MYSORE-579 025

Examiners:

1 Shigney

Principal

2

Place: Mysore

Date:



TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Mr. Darshankumar D M.Sc. Biotechnology, has done his internship in Laurus Bio Pvt Ltd. From 14th June 2023 to 9th September 2023.

He has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

guing the internship training he demonstrated good design skill with a self- motivated attitude to learn new things. His performance exceeded expectations and was able to complete the assigned tasks on time.

We wish him all the best for his future endeavours.

For Laurus Bio Pvt Ltd

Rakesh D

General Manager- Production

EAURUS 810 PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) Part No. 204 & 237, Semmonandra Jigani Link Road, K.J.A.D.B. Industrial Arest, Bangalore Bural District, Karnataka - \$60105, India. : 491 - 8110 - 419777 | 1 +91 - 080 - 2783 9574 | W | www.lourus.blo | 1 info@iounis.blo | (114) U02423KA2005PTC036770

(An Autonomous College of University of Mysore)

MYSURU -570025



Postgraduate Department of Bio-Technology

CERTIFICATE

Certified that internship report entitled "GENERAL INDUSTRIAL TRAINING IN PRODUCTION DEPARTMENT" is a Bonafide work carried out by Mr. PAVAN RAJ V (Reg.no. III121022) (UUCMS No. P01BE21S0561) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology of University of Mysore.

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor

Postgraduate Department of Bio-Technology 35 College, Only Road, Mysaru-25 Dr. B.Y. Sathish Kumar

Assistant Professor and HOD, PG

Dept of Bio-Technology

Head of the Department
Postgradum Department of Busineshnology

ISS College of Ans. Commerce and Science. (Autonomous)

Goty Road, MY SORE-578 825

Examiners:

1 Jungun6/2/19/23

2. Name 3/3/33

Mace: Mysore

Date: 21-51-7693



TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Mr. Pavan Raj V M.Sc. Biotechnology, has done his internship in Laurus Bio Pvt Ltd. From 14th June 2023 to 9th September 2023.

He has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

During the internship training he demonstrated good design skill with a self- motivated attitude to learn new things. His performance exceeded expectations and was able to complete the assigned tasks on time.

We wish him all the best for his future endeavours.

For Laurus Bio Pvt Ltd

Rakesh D

General Manager- Production

LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) Plot. No. 204 & 237, Bommasondra Jigani Link Road, K.I.A.D.B. Industrial Area, Bangalore Rural District, Kornstaka - 560105, India. : +91 - 8110 - 419777 F : +91 - 080 - 2783 9574 W : www.lourus.bio E : info@lourus.bio CIN : U02423KA2005PTC036770

An Autonomous College of University of Mysore) MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled "INTERNSHIP AT QUALITY ASSURANCE DEPARTMENT IN NESTLE INDIA LTD.," is a bonafied work carried out by Ms. Shwetha P Hampole (Reg.no.P01BE21S0201) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Mr. Vasanth Patil H B

Assistant Professor

PG Dept. of Bio-Technology

JSS College, Ooty Road, Mysuru-25

Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology

R. 7. SAL

Head of the Department

Poetgraduate Department of Biotechnology JSS College of Arts. Commerce and Science (Autonomous)

Only Hose, MYSORE-578 075

Examiners:

9

Place: Mysore

Date:

Nestle India Limited

KIADB Industrial Area, Post Box No 24 Narrangust 5/1 302, Mysoir District Karnataka Phone (68221) 244600-244629 Email Corporate@in nesde com Website: www.nestie.in

Nestle

Date: 31" August 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms., Shwetha P Hampole, student of JSS College of Art. Commerce and Science, Mysore, has successfully completed her Project Work in our organisation as a part of her curriculum, from 24th May 2023 to 31° August 2023.

During the Project Work, we found her conduct good & she was sincere in her efforts to study and was much interested in the assigned work.

We wish her all the very best in her future endeavours.

NESTLE INDIA LIMITED NANJANGUD FACTORY INDIA LA

MANAGER -CA

"Registered Officer: 100 / 101, World Trade Centre, Burakhumba Lace, New Delhi - 110 001".

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'GENERAL. INDUSTRIAL TRAINING PRODUCTION DEPARTMENT' is a bonafied work carried out by Mr. Darshankumar. D (Reg.no.PB01BE21S0261) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor

Purigraduate Department of Bio-Technology PSS College, Outy Road, Mysuru-25 Dr. B.Y. Sathish Kumar

Assistant Professor and HOD, PG Dept.

rieu u fila i brice Department

Ostgraduate Department of Biotechnology (SS College of Arts, Commerce and Science (Autonomous)

Only Road, MYSORE-570 025

Examiners:

1 Shalling

Principal

2.

Place: Mysore

Date:



Date: 05-09-2023

TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Mr. Darshankumar D M.Sc. Biotechnology, has done his internship in Laurus Bio Pvt Ltd. From 14th June 2023 to 9th September 2023.

He has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

During the internship training he demonstrated good design skill with a self- motivated attitude to learn new things. His performance exceeded expectations and was able to complete the assigned tasks on time.

We wish him all the best for his future endeavours.

For Laurus Bio Pvt Ltd

Rakesh D

General Manager- Production

LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) For the 204 E 237, Sommesondra ligani Link Road, K.I.A.D.B. Industrial Area, Songolore Bural District, Konsutaka - 560105, India. 191 - 8110 - 419777 F : +91 - 060 - 2783 9574 W : www.lourus.bio | : info@lourus.bio | IIII - U02423KA2905PTC036770

Art Autonomous College of University of Mystare)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project entitled "A Preliminary Study on Extracellular Proteins and Biosurfactants in Yeast Isolates Under Heavy Metals Stress" is a bonafied work carried out by Mr. PRAJWAL M (Reg.no. JBT210208) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Guide

Dr. BHAVYA G

Asst. Prof.

Dr. B. Y SALISH KUMA

R.y SALX

Hausbofstb@Department

Pastgraduate Department of Biotechnology JSS Cotago of Arts, Commerce and Science (Autocomous)

Doty Road, MYSORE-570 025

Examiner: 1)

2) Nothergal

Dr. PRATHIBHA S

Principal, JSSCACS

Place: Mysuru

Date:

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'Reformulating the establishment of a culture base and expansion of the manufacturing process for serratiopeptidase within an industrial environment' is a bonafied work carried out by Ms. Rakshitha Mery Tanuja (Reg.no. P01BE21S0409) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide – Mr.Sudarsanan N

Sr. Manager-Biologics

Anthem Biosciences Pvt Ltd

Internal Guide -

BY BHAVYA. G

Examiners:

1

2

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Opty Road, MYSORE-570 025

Hincipal



REF ARET PROPErsonne-Lis-45-4-11 12: Segmention 2023

Anthem Biosciences Pvt. Ltd.

REFERENCE DESCRIPTION OF THE PROPERTY OF THE P

CPV UNALL WALLEST TO SERVED TO THE PARTY OF THE PARTY OF

To Whomsoever It May Concern

Certificate of Internship Training

This is to certify that Ms. Rakshitha Mery Tanuja has successfully completed her internship training from 12th June .2023 to 12th August . 2023 in biological department under the guidance of Mr. SUDHARSANAN N.

We found her sincere and hard working during her tenure. We wish her all the best in her future endeavors.

Best Regards

From ANTHEM BIOSCIENCE PVT.LTD

S Sanil Kumar

Sr. Manager -HR

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

CHARACTERIZATION OF BIOACTIVE COMPOUND(flavonoids) FROM Gymuna crepidioides is a bonified work carried out by Ms. Pooja G S (Reg.no. P01BE.21S0238) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Guide Y

Dr. Rekhn N.D. M.Sc., Ph.D.

Assistant professor

PG Department of Biotechnology

Examiners:

1. Ry 20/09/2025

2,

Place: Mysore

Date:

HEROGODER DESCRIPTIONS
Pastgraduate Department of Bross model

(Subspringly of Arts. Communica and Scientific (Autonomous)

Coty Road, Mis share and pro-



(Autonomous, NAAC 'A' Grade & College with Potential for Excellence) OOTY ROAD, MYSORE -570025

CERTIFICATE

Certified that project entitled "INDUSTRIAL PRODUCTION OF RECOMBINANT ENZYME (Bst DNA Polymerase)" at E2E BIOTECH LIMITED. is a bonified work carried out by Ms. Mallika (Reg.no. JBT21018) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Biotechnology of University of Mysore during the year 2022 -23.

Name & signature of the External guide

Name & signature of the Internal guide

Dr. BHAVYA. G

Examiners: DANNymy/21/9/22

Place: Mysore

B.y. SAV Fr

Head of the Department Pesigraduate Department of Biotechnology JSS College of Ams, Commerce and Science (Autonomous)

Only Road, MYSORE-578 025

Dr. S. Prathibha

Principal, JSSCACS

Ooty mad, Mysuru- 25



E2E BIOTECH PRIVATE LIMITED

(CIN: U74999KA2016PTC095022 GSTIN: 29AAECE3523F12U)

Date: 21/08/2023

CERTIFICATE

This is to certify that Ms Mallika, M.Sc Biotechnology, Student of JSS College of Arts Commerce and Science has successfully completed three months internship work entitled "Industrial production of recombinant enzyme (Bst DNA Polymerase) used in genetic engineering" in our organization. During her tenure with us, we found Ms Mallika to be honest, hardworking and responsible.

She deserves all encouragement. We wish her all the best for all her future endeavours.

Best Regards

Dr Gururaj HB COD & CSO,

EZE BIOTECH PVT LTD

(An Autonomous Callege of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'General Industrial training on Bioreactor for production of food grade products' is a bonafied work carried out by Ms. SINDU SREE (Reg.no. P01BE21S0263) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Mr. Parthiban G

(Senior Manager, Production Laurus Bio Pvt, Ltd. Tumkur)

Internal Guide - Mathignon Gunta

Dr. B.Y. Sathish Kumar

HOLH POCKOPHINE Bio-Technology

Postgraduate Department of Biotechnolog JSS College of Arts, Commerce and Science

Autonomeus Octy Road, MYSORE-570 025

Examiners:

1. Newsons 30/0/22

Dr. Prathiba S Principal, JSSCACS Ooty road, Mysore- 25

Place: Mysore

Date: 20-09-2023



TO WHOMSOEVER IT MAY CONCERN:

This is to certify that Ms. Sindu Sree M Sc. Biotechnology has done her internship in Laurus Bo Pyt Ltd. From 14th June 2023 to 9th September 2023.

She has undergone training on "GENERAL INDUSTRIAL TRAINING ON BIOREACTORS FOR PRODUCTION OF FOOD GRADE PRODUCTS".

During the internship training, she demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the assigned tasks on time.

We wish her all the best in her future endeavours.

For Laurus Bio Pvt Ltd

Rakesh D

General Manager- Production

LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt. Ltd.) Plot No. 204 & 237, Bommersandra Jigani Link Road, K.LA.D.B. Industrial Area, Bangalore Rural District, Karnataka - \$60105, Indi 191 - \$110 - 444777 191 - 8110 - 419777 F : +91 - 080 - 2783 9574 W : www.lautus.bio € : Info@lautus.bio € : U02423KA2005PTC0367 LAURUS Synth

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'ANALYSIS OF ACTIVE PHARMACEUTICAL INGREDIENTS' is a bonafied work carried out by Ms. NISARGA S (Reg.no. P01BE21S0232) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

External Guide -

Mr. Ragavendra Rao Desai Director of analytical research

development

Internal Guide -

Dr. B.Y. Sathish Kumar

1402d of Repbergine

Postgraduate Department of Biotechne-USS College of Arts, Commerce and Scie (Autonomous)

DON Road MYSORE, SP 9T

Examiners:

. Sarcy

2.

Place: Mysore

Date

Prathiba S



NJD/HR/PTC/2023-24/31

July 25, 2023

10 WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Nisarga S, D/o Shivakumar [Reg No: JBT21020] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous). Mysore has successfully completed her Internship in our Organization from 22nd May 2023 to 21" July 2023.

She has undergone training under the guidance of Mr. Raghavender Rao Desai, Director—Analytical Research Development.

During her study, Ms. Nisarga S has shown keen interest and completed the Internship successfully.

We wish her success in future endeavors.

FOR JUBILANT PHARMOVA LIMITED

SUBRAHMANVA A SON 23

DIRECTOR-HUMAN RESOURCES

A Jubilant Mhartia Company

Intelligent Physics on Electrical

of the Control for the Electrical

of the Control for the Electrical

of the Control for the Control for the

of the Control for th

NORTH TO STATE OF THE PARTY OF

State of Texts and the



Postgraduate Department of Biotechnology

CERTIFICATE

CERTIFIED THAT INTERNSHIP REPORT ENTITLED 'ANALYSIS OF ACTIVE PHARMACEUTICAL DRUG ESLICARBAZEPINE ACETATE BY HPLC AND GC METHOD IS A BONAFIED WORK CARRIED OUT BY MS. DIVYASHREE P (REG.NO. PO1BE21S0S60) IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF MASTER OF SCIENCE DEGREE IN BIOTECHNOLOGY OF UNIVERSITY OF MYSORE.

GUIDES:

Signature of the Guide

External Guide -Mr. Raghavender Rao Desai Director of Analytical R & D Jubilant Pharmova Ltd.

Internal Guide - No.

Examiners:

1. Jungany/2119/23

Vasaut

Place: Mysore

Date: 21 09 2023

Dr. R.V. Sathish Kumar

udledd of the Penertmenton

JSS College of Arts, Commerce and Science (Autonomous)

Dety Rnad, MYSORE-570 025

PRINCIPAL



NJD TIR PTC 2023-24/38

July 31, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Divyashree P. Dio Prasanna Kumar C [Reg No: JBT21010] is at using M.Sc. Biotechnology in JSS Coffege of Arts. Commerce and Science (Autonomous), Mysore importantly completed for intereship in our Organization from 20th May 2023 to 28th July 2023.

She has an decrease uniform to the public of Mr. Raghavender Rao Desai.

Director - Analytical Research Development.

Dorling for study. Ms. Dhyushrov Ph. Commission of the decimal and indicate the internable successfully.

We will have the one in times and come.

1 STREET AND PHARMOVALIMITED

SUBBAHMAN

DIRECTOR HUMAN RESOURCES

(An Autonomous College of University of Mysore)

MYSORE 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'To standardize the protocol for expression and purification of protein in Bacterial Expression System' is a bonafied work carried out by Ms. V.K. Deepa (reg no. P01BE21S0259) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore. Signature of the Guide External Guide

GUIDE(S):

Signature of the Guide

External Guide

Dr.Mukti Nath Mishra

Metabolic Engineering HOD Bioplus Life Science Pvt Ltd

Examiners:

1. Show wo /24/4/23

Place: Mysore

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Setechnology JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, MY SORE-579 025

cincipal.

2



16th September 2023

CERTIFICATE

This is to certify that Ms. V.K. DEPPA M Sc degree in Biotechnology student of JSS College of Arts, Commerce and Science is doing her Internalisp program in our organization from 01" June 2023 to till date in our Hosor Plant

We wish her all the best in her future endeavors

THE BIOPLUS LIFE SCIENCES PRIVATE LIMITED.

AUTHORIZED SIGNATORY

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Analysis of active Pharmaceutical Drug-ESOMEPRAZOLE SODIUM by high performance liquid chromatography and gas chromatography' is a bonafied work carried out by Ms. Adhi Lakshmi P (Reg.no. P01BE21S0543) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -

Mr. Raghavender Rao Desai, Jubilant Pharmova Limited, Nanjangud, Mysore-571302.

Neloyal

Internal Guide -

Dr. Abignan Gurukar MS

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Goty Road, MY SORE-570 025

Examiners:

2.

Place: Mysore

Date:

Dr. S Prathibha

rincipal



NJD/HR/PTC/2023-24/81

September 04, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Adhi Lakshmi P, D/o Prasad G [Reg No: P01BE21S0543] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous), Mysore has successfully completed her Internship in our Organization from 22nd June 2023 to 21nd August 2023.

She has completed the Internship under the guidance of Mr. Raghavender Rao Desai, Director -Analytical Research Development.

During her study, Ms. Adhi Lakshmi P has shown keen interest and completed the Internship successfully.

We wish her success in future endeavors.

For JUBILANT PHARMOVA LIMITED

-04/09/23

SUBRAHMANYA A

DIRECTOR HUMAN RESOURCES

A Jubilant Bhartla Company



(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Antidiabetic activity of flavonoid isolated from Gynura crepidioides' is a bonafied work carried out by Ms. Pavani J Bharadwaj (Reg.no. P01BE21S0241) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Guide:

Dr. Rekha N.D. M.Sc., Ph.D.

Assistant professor

PG Department of Biotechnology

Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology Head of the Department

Pestgraduate Department of Biotechirolog-JSS College of Arts, Commerce and Science

(Autonomovs) Duty Road, MY SORE-570 025

Examiners:

1. 9

2

-

Place: Mysore

Date: 20 9 2.

Dr. Prathibha Principal, JSSCACS

Ooty road, Mysore

(An Autonomous College of University of Mysore) MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'ANALYSIS OF ACTIVE

PHARMACEUTICAL DRUG DONEPEZIL HYDROCHLORIDE MONOHYDRATE

BY HPLC AND GC METHODS' is a bonafied work carried out by Ms.

AISHWARYA B (Reg.no. JBT21002) (uucms.Reg.no.PB01BE21S0527) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE

MR. Vasanth Patil H.B (internal guide)

Assistant professor

Postgraduate department of Bio-technology

Jss college, Ooty road, Mysuru-25

Dr. B.Y. Sathish Kumar

OD, PG Dept. of Bio-Technology Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Opty Road, MYSORE-579 925

Dr. Pratibha s

Principal

Place: Mysore

Examiners:

Date:



NJD/HR/PTC/2023-24/30

July 25, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Alshwarya B, D/o Basavaraju [Reg No: JBT21002] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous), Mysore has successfully completed her Internship in our Organization from 22nd May 2023 to 21" July 2023.

She has undergone training under the guidance of Mr. Raghavender Rao Desai, Director -- Analytical Research Development.

During her study, Ms. Alshwarya B has shown keen interest and completed the Internship successfully.

We wish her success in future endeavors.

For JUBILANT PHARMOVA LIMITED

SUBRAHMANYA A

DIRECTOR-HUMAN RESOURCES

A Arbitant Shartie Company

OAHARI —

publish Plantons Limited of that has 16, 56, 17 & 56, 63,000 behavioral Anna, Narranged Myseum 271 bill Santalaka India Narranged (20,002 & anna lakkaman pagasagan) CARDINATE OF NET S.A. Sector (S.A. Sector (S.A. Sector (S.A. Sec. + St. CO. Electric) Sec. + St. CO. Electric) Sec. + St. CO. ASSESSES Sec. Ropi Other Martingon Genela Dati Aresha 2M (2) UR hola Chi Gallinoteshin, Chinesa

(An Autonomous College of University of Mysoce) MYSORE - 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'BACTERIAL REVERSE MUTATION TEST (AMES) AS PER OECD 471' is a borafide work carried out by Ms. VISMAYA K R (Reg.no JBT21049.) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide:

Internal Guide:

Examiners:

1. Shuson (/419/1)

2.

Place: Mysore

Date:

Dr. Samit Kadam

HOD, Department 9

Genotoxicology.

Vipragen Biosciences P

Mysore.

DaeBayor art is both men

Poetgraduate Dallar Ment of Signerapide

P& Dept of Basterimology

Doty Road MYSORE-570 921

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled 'Internship on instrumentation of Analytical Devices' is a bonafied work carried out by Ms, Sushma S Y (Reg.no. P01BE21S0213) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

External Guide -

Mr. HITESH

HOD-Analytical development laboratory CIPLA PHARMOVA LIMITED

Virgonagar Bangalore.

Dr. B.Y. Sathish Kumar

HOD PG Dept. of Bio-Technology Head of the Department

Postgraduate Department of Biotechnology JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, MYSORE-570 025

Internal Guide -//

Examiners:

L

9

44.0

Place: Mysore

Prathiba s

Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Certified that project/internship report entitled 'Clinical trial design its importance and management' is a bonafied work carried out by Ms. Soundarya Mulge (Reg.no. P01BES0294) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -

Dr. Pawan Kumar Singh

Internal Guide - M& Arigna G

Examiners:

1. In wow 7/20/9/20

2.

Place: Mysore

Date

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

14.0A

Postgraduate Department of Biotechnolog JSS College et Arts, Commerce and Scienc (Autonomous)

Ooty Road, MY SORE-570 025

Principal

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology CERTIFICATE

Certified that project/internship report entitled 'ANALYSIS OF ACTIVE PHARMACEUTICAL INGREDIENTS' is a bonafied work carried out by Ms. AMULYA SL (Reg.no.P01BE21S0514) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

External Guide -

Mr. Ragavendra rao desai Director of analytical research development

Internal Guide -

Dr. B.Y. Sathish Kumar HODHEGGOStmoffRipoTechnology

Postgradume Department of Biotechnologies JSS College of Arts, Commerce and Scientification (Autonomicus)

Cory Road, MYSORE, 676 575

Examiners:

. .

2.

Pince: Mysore

Date:

Dr. Prathibha Principal, JSSCACS

Scanned by CamScanner



N.ID/HR/PTC/2023-24/39

July 31, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Amulya S L, D/o Lakshmana [Reg No: JBT21003] pursuing M.Sc. Biotechnology in JSS College of Arts, Commerce and Science (Autonomous), Mysore has successfully completed her Internship in our Organization from 29th May 2023 to 28th July 2023.

She has undergone training under the guidance of Mr. Raghavender Rao Desai, Director -Analytical Research Development.

During her study, Ms. Amulya S L has shown keen interest and completed the Internship successfully.

We wish her success in future endeavors.

For JUBILANT PHARMOVA LIMITED

SUBRAHMAN

DIRECTOR-HUMAN RESOURCES

A Jubiliani Shantia Company







Indian Pharmera Lintrel

a 1/2 - 1/2 - 1/2 - a - 1/2 - a - 1/2 - a

a 1/2 - 1/2 - a - 1/2 - a - 1/2 - a

a 1/2 - a - 1/2 - a - a

b - 1/2 - a - a

b - 1/2 - a

a 1/2 - a

b - 1/2 - a

b - a

a 1/2 - a

a 1/2 - a

b - a

a 1/2 - a

a 1/

(An Autonomous College of University of Mysore)

MYSURU - 570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled Industrial internship on "Active pharmaceutical ingredients" is a bonafied work carried out by Ms. SNEHA P R (Reg.no. P01BE21S0250) in partial fulfilment of the requirements for the award of Master of Science degree in Biotechnology, University of Mysore.

GUIDE(S):

Signature of the Guide

Dr. Bhavya G

Assistant Professor

Postgraduate Department of Biotechnology

JSS College, Ooty Road Mysore-25

Dr. B. Y. Sathish Kumar

Assistant Professor and HOD

Phear of the Department

Pestgraduate Department of Biotechnology

JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, MYSORE-578 625

Examiners:

Place: Mysore

Date:

Dr. Prathibha. S.

CERTIFICATE

This is to certify that Ms. Sneha P R, Reg. No. JBT21035, student of JSS College of Arts, Commerce and Science, Ooty Road, Mysore studying in IV Semester - M. Sc. Biotechnology, has carried out her Internship in our organization. She has undergone training in Quality Control, Microbiology and Production departments. The duration of training was from 21st June 2023 to 19th August 2023.

We found her keen in learning and good in conduct.

We wish her all the success in her future endeavors.

For R L Fine Chem Pvt. Ltd.,

Manager - Human Resources

RLFINE CHEM PVT, LTD, Plot No. IP-27-29, KIADB Industrial Alea, 1st Phase, Kudumalakunta Village, Gowribidanur Tuluk, Chinhat allapur Dist., Kamataka - State, India, PUR, 561-208



(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that project/internship report entitled "Antioxidant property of bioactive molecule isolated from Gynura crepidioides is a bonafied work carried out by Mr. Chethan.c.k (Reg.no.P01BE21S0551) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

Signature of the Guide

Dr. Rekha, N.D

M.Sc., Ph.D.

Assistant professor

PG Department of Biotechnology

Examiners:

1. Jangenis/21/9/23

1/draug)

Place: Mysore

Date:

Dr. B.Y. Sathish Kumar HOD, PG Dept. of Bio-Technology

Head of the Department

Postgraduate Department of Biotechnology ISS College of Arts, Commerce and Science (Autenomous)

Only Road, MYSORE-570 025

Dr. S. Prathibha

Principal, JSSCACS

Ooty coad, Mysuru - 25

(An Autonomous College of University of Mysore)

MYSORE -570025



Postgraduate Department of Biotechnology

CERTIFICATE

Certified that internship report entitled 'General Industrial on Microbiology in Quality control department' is a bonafied work carried out by Mr. Theertha Kumar K (Reg.no. P01BE21S0257) in partial fulfillment of the requirements for the award of Master of Science degree in Biotechnology of University of Mysore.

GUIDE(S):

Signature of the Guide

External Guide -Mr. Shreekanth

(Sensor Manager QC Microbsology, Laurus Bio, Pvt, Ltd. Bangalore)

Internal Guide -

Examiners:

1. St. Somo () # 123

Place: Mysore Date: 20-09-2023 Dr. B.Y. Sathish Kumar

HOD, PG Dept. of Bio-Technology

Head at the Department
Pestgraduate Department of Biotechnolog
JSS College of Arts. Commence and Science
(Autonomous)

Ooty Road, MY SORE-570 025

Dr. Prathiba S

Principal, JSSCACS

Operoad, Mysore 25

2



TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Theertha Kumar K MSc Biotechnology has done his internship in Laurus Bio Pvt Ltd. From 1st August 2023 to 15th September 2023.

He has undergone training on "GENERAL INDUSTRIAL TRAINING ON MICROBIOLOGY IN QUALITY CONTROL DEPARTMENT".

During the internship training, he demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the assigned tasks on time.

We wish him all the best in his future endeavours.

For Laurus Bio Pvt Ltd.

Vinuta Chetan Group Manager- HR

Marke



LAURUS BIO PRIVATE LIMITED (Formerly known as Richcore Lifesciences Pvt Ltd.)

Plot. No. 204 & 237, Boenmasandra Jigani Link Road, K.I.A.D.B. Industrial Area, Bangalore Rural District, Karnataka - 560105. India. T: +91 - 8110 - 419777 F: +91 - 080 - 2783 9574 W: www.laurus.bio info@laurus.bio CIN: U02423KA2005PTC036770

LAURUS Labs LAURUS

LAURUS Generics

LAURUS Symmes

(An Autonomous College of University of Mysore)

MYSURU -570025



Postgraduate Department of Bio-Technology

CERTIFICATE

Certified that internship report entitled Industrial internship on "ACTIVE PHARMACUTICAL INGREDIENTS" is a bonafide work carried out by Ms. Deepthi .N (Reg.no. JBT21009),(UUCMS No.P01BE21S0254) in partial fulfillment of the requirements for the award of Master of Science degree in Bio-Technology of University of Mysore.

GUIDE

Mr. Vasanth Patil H.B.

Assistant Professor

Postgraduate Department of Bio-Technology JSS College, Ooty Road, Mysuru-25

Dr. B.Y. Sathish Kumar

Assistant Professor and HolonPG
Head St. Big. Lechnologyolog.
Postgradivste page 1

JSS College of Ams. Commerce and Science Autonomous

Oory Road, MY SORE-578 025

Examiners:

Place: Mysore

Date:

Dr.Prathibha.S

Principal

CERTIFICATE

This is to certify that Ms. Deepthi N, Reg. No. JBT21009, student of JSS College of Arts, Commerce and Science, Ooty Road, Mysore studying in IV Semester - M. Sc. Biotechnology, has carried out her Internship in our organization. She has undergone training in Quality Control, Microbiology and Production departments. The duration of training was from 21st June 2023 to 19th August 2023.

We found her keen in learning and good in conduct.

We wish her all the success in her future endeavors.

For R L Fine Chem Pvt. Ltd.,

Manager - Human Resources

19/15/2023

RLFINE CHEM PVT. LTD. Plot No IP-27-28 KIADB Induttili Altra THE Phone. Murlimul paymen, Where, Objections To an in the last the Kartaur kind

