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DEPARTMENT OF MICROBIOLOGY

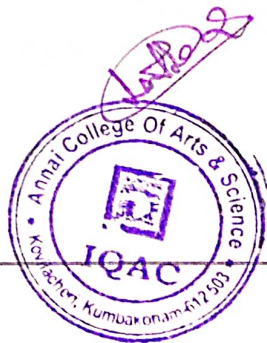
STUDENTS PROJECT DETAILS

ACADEMIC YEAR

2019-2021

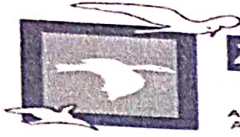
Debas
HOD

HEAD,
Department of Biotechnology,
Annai College of Arts and Science,
Kovilacheri, Kumbakonam - 612 503.



QMA
PRINCIPAL

Principal
Annai College of Arts & Science
Kovilachery, Kumbakonam...



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DEPARTMENT OF MICROBIOLOGY

MINUTES OF MEETING

An agenda is a list of meeting activities in the Master of Science student's project plan discuss on 14/12/10 at 2.00pm

AGENDA

- Project Discussion
- Guide Name list
- Guidelines regarding Project work
- Review dates

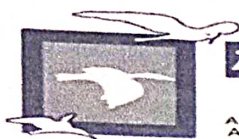
Faculty Presence

S.NO	Guide Name	Signature
1	Dr.D.Balasundaram	
2	Dr.D.Elamparthi	
3	M.Dineshkumar	
4	Dr.V.Moorthy	
5	S.Durga devi	
6	Dr.P.Mani	
7	R.Shalni	
8	P.Surya	
9	P.Sujapandiyan	
10	Dr.P.Mani	

Resolution:

- Resolved to give details information about the project to the students
- Resolved by allocating list of faculty with their ward for effective project guidance
- Resolved to follow the review dates as per the schedule dates.

Head of the Department



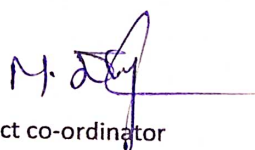
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DEPARTMENT OF MICROBIOLOGY

PROJECT REVIEW DETAILS/II M.Sc.MB/I BATCH/2019-2021

MONTH	DATE	REVIEW	DETAILS	MARK ALLOCATION
DEC	17.12.20	Zeroth Review	Laboratories Details, Conformation letters, Joining report	
DEC	24.12.20	First Review	Project title selected, Primary & Secondary Objective	5
JAN	21.01.21	Second Review	Review of Literature	5
JAN	27.01.21	Third Review	Sample collected, Materials and method	10
FEB	10.2.21	Forth Review	Analysis of sample in different methods	10
FEB	24.2.21	Fifth Review	Results and Discussion and Report to be prepared as per Bharathidasan university	10
MAR	10.3.21	Project Submission		
MAR	18.3.21	Power Point Presentation of Projects		
MAR	30.3.21	VIVA - VOCE		

Total Marks: 110


Project co-ordinator


Head of the Department



DEPARTMENT OF MICROBIOLOGY


ATTENDANCE FOR PROJECT DETAILS/II M.Sc. / BATCH/2019-2021


S.NO	REG.NO	NAME	MONTH									
			17.12.20		21.1.21		10.2.21		10.3.21		30.3.21	
			&	&	&	&	&	&	&	&		
1	P19390901	G.Akilandeswari	X	X	X	X	X	X	X	X	X	
2	P19390902	M.Anjali	a	x	x	x	x	x	x	x	x	
3	P19390903	M.Arun	X	X	a	X	X	X	a	X	X	
4	P19390904	L.Asath ali	X	X	X	X	X	X	X	X	X	
5	P19390905	K.Chandira	X	X	a	X	X	X	X	X	X	
6	P19390906	S.Dhavamani	X	a	X	X	X	X	X	X	X	
7	P19390907	B.Divya Dharshini	X	X	X	a	X	a	X	X	X	
8	P19390908	N.Ishwarya	X	X	a	X	X	X	X	X	X	
9	P19390909	T.Karthika	a	X	X	X	X	X	X	X	X	
10	P19390910	M.Keerthika	X	X	X	X	X	X	a	X	X	
11	P19390911	M.Maha	X	a	X	X	X	a	X	a	X	
12	P19390912	S.Manikandan	X	X	a	X	X	X	X	X	X	

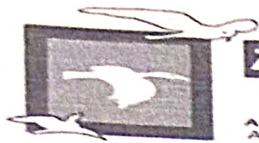
No of Student Present: 12

No of Student absent: NIL


Faculty Signature


Project co-ordinator


Head of the Department



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DEPARTMENT OF MICROBIOLOGY


ATTENDANCE FOR PROJECT DETAILS/II M.Sc. / BATCH/2019-2021

S.NO	REG.NO	NAME	MONTH					
			17.12.20 & 24.12.20	21.1.21 & 27.1.21	10.2.21 & 24.2.21	10.3.21 & 18.3.21	30.3.21	
11	P19390913	P.Mohana priya	✓	✓	✓	✓	✓	✓
12	P19390914	H.Museriya	✓	✓	✓	✓	✓	✓
13	P19390915	K.Narpavi	✓	✓	✓	✓	✓	✓
14	P19390916	S.Pooja	✓	✓	✓	✓	✓	✓
15	P19390917	B.Prakash	✓	✓	✓	✓	✓	✓
16	P19390918	B.Prasanth	✓	✓	✓	✓	✓	✓
17	P19390919	V.Priya	✓	✓	✓	✓	✓	✓
18	P19390920	C.Roshan	✓	✓	✓	✓	✓	✓
19	P19390921	B.Ruba	✓	✓	✓	✓	✓	✓
20	P19390922	V.Rubila	✓	✓	✓	✓	✓	✓
21	P19390923	R.Sowmiya	✓	✓	✓	✓	✓	✓
22	P19390924	R.Suba	✓	✓	✓	✓	✓	✓

No of Student Present: 12

No of Student absent: NIL


Faculty Signature


Project co-ordinator


Head of the Department



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DEPARTMENT OF MICROBIOLOGY

STUDENTS PROJECTS 2019 – 2021

MEETING MINUTES

An agenda is a list of meeting activities in the Master of Science student's project plan discuss

THE NAME OF GUIDE LIST IN DEPARTMENT OF MICROBIOLOGY

Dr.V.Moorthy

Dr.D.Elamparthi

Dr.D.Balasundaram

M.Dineshkumar

S.Durgadevi

Dr.R.Shalni

Dr.P.SuRYA

Dr.R.Suja pandian

D.Meharajbegum

THE NAME OF STUDENTS LIST IN DEPARTMENT OF MICROBIOLOGY

M.Anjali(P19390902)

M.Arun(P19390903)

L.Asath ali(P19390904)

K.Chandira(P1939090)

S.Dhavamani(P1939090)

B.Divya Dharshini(P19390907)

N.Ishwarya(P19390908)

T.Karthika(P19390909)

M.Keerthika(P19390910)

M.Maha(P19390911)

S.Manikandan(P19390912)
P.Mohana priya(P19390913)
H.Museriya(P19390914)
S.Pooja(P1939091)
B.Prakash(P19390917)
B.Prasanth(P19390918)
V.Priya(P19390919)
C.Roshan(P19390920)
B.Ruba(P19390921)
V.Rubila(P19390922)
G.Akilandeswari(P19390901)

The department heads conducted the meeting to the staffs allotted individual students guidance of project

Dr.D.Balasundaram

M.Anjali(P19390902)
V.Rubila(P19390922)
S.Manikandan(P19390912)

3

student's sign

M. Anjali
V. Rubila
S. Manikandan

Dr.V.Moorthy

V.Priya(P19390919)
B.Prakash(P19390917)

V. Priya
B. Prakash

Dr.D.Elamparthi

B.Ruba(P19390921)
C.Roshan(P19390920)

B. Ruba
C. Roshan

M.Dineshkumar

S.Pooja(P1939091)

S. Pooja

S.Durgadevi

P.Mohana priya(P19390913)
Museriya(P19390914)

P. Mohana Priya
Museriya

Dr.R.Shalni

T.Karthika(P19390909)

N.Ishwarya(P19390908)

B.Divya Dharshini(P19390907)

Dr.P.SuRYA

B.Prasanth(P19390918)

M.Maha(P19390911)

M.Keerthika(P19390910)

Dr.R.Suja pandian

G.Akilandeswari(P19390901)

L.Asath ali(P19390904)

D.Meharajbegum

K.Chandira(P1939090)

S.Dhavamani(P1939090)

M.Arun(P19390903)

T. Karthika
N. Ishwarya
B. Divya Dharshini

B. Prasanth
M. Maha
M. Keerthika

G. Akilandeswari

L. Asath ali

K. Chandira
S. Dhavamani
M. Arun

REVIEW

The department the staffs' contacted the meeting to allotted individual students discuss of project topics first selected

Dr.D.Balasundaram

M.Anjali(P19390902)-screening of different solvent extracts of spilanthes calva dc and synthesis of silver nano particles using the aqueoes extracts

V.Rubila(P19390922)-A study concerning in vitro conservation strategies using cayratia trifolia ,domin protocol for micro propagation from node leaf explants

S.Manikandan(P19390912)-studies on screening and quality evaluation of the raw coconut (cocos nucifera L.)water,raw coconut milk and raw coconut scrappings during freezing condition

Dr.V.Moorthy

V.Priya(P19390919)-Screening of bioactive in ethonolic leaf extract of celastrus paniculatus plant by using qualitative phytochemical analysis

B.Prakash(P19390917)-screening of antibacterial activity and antifungal activity of the crude extract of celastrus paniculatus wild on selected pathogenic bacteria and fungus

Dr.D.Elamparthi

B.Ruba(P19390921)-Green syntheisis and characterization of silver nanoparticles using cayratia extract

C.Roshan(P19390920)-Synthesis silver nanaparticles using aqueous leaf extract of cyclea peltata

M.Dineshkumar

S.Pooja(P1939091)-antibacterial activity and phytochemical screening of melia azedarach L against urinary tract pathogens

S.Durgadevi

P.Mohana priya(P19390913)-Invitro micropropagation of cayratia trifolia (L)domain in traditional medicinal plant from node and leaf explants

Museriya(P19390914)-production and optimization of protease enzyme using rice bran substrate by streptomyces griseus and streptomyces clavuligerus

Dr.R.Shalni

T.Karthika(P19390909)-phytochemical analysis and antimicrobial properties of Moringa oleifera leaves extract against urinary tract causing microbes

N.Ishwarya(P19390908)-evaluation of phytochemical and in vitro antimicrobial activity of Cissus quadrangularis against skin causing pathogens

B.Divya Dharshini(P19390907)-Sreening of phytochemicals and evaluation of antimicrobial activity of Aristolochia bracteolata leaves extract against diabetic foot ulcer causing microbes

Dr.P.SURYA

B.Prasanth(P19390918)-in vitro antibacterial potential of meliaazedarach leaf extracts against some human pathogenic bacterial strains

M.Maha(P19390911)-sreening of antimicrobial activities and antifungal activities of cyclea peltata plant extracts on some selected pathogenic microorganism

M.Keerthika(P19390910)-evaluation of phytochemical and invitro antimicrobial activity of eclipta prostrata leaves

Dr.R.Suja pandian

G.Akilandeswari(P19390901) -screening of invitro anthelmintic activity of Cassia alata leaves and flowers


L.Asath ali(P19390904)-production of herbal fermented honey using isolated Cadida sp.and analysis of antimicrobial and antioxidant activity

D.Meharajbegum

K.Chandira(P1939090)-Antimosquitocidal activity and phytochemical analysis of leaf exarct in justicia adhadoto

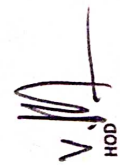
S.Dhavamani(P1939090)-phytochemical investigations and antibacterial activity of Cayratia trifolia plant extract against pathogenic bacteria

M.Arun(P19390903)-Isolation,characterization and determining the ability of protease production bacteria from soil


HOD

DEPARTMENT OF MICROBIOLOGY
PROJECT DETAILS -(2017-2018)

Batch	Students Name	Reg.No	Title of Project	guide name
2019-2021	P19390901	G.Aklandeswari	screening of invitro antihelmintic activity of Cassia alata leaves and flowers	Dr. R.Suja pandian
2019-2021	P19390902	M.Anjali	screening of different solvent extracts of spilanthus calva dc and synthesis of silver nano particles using the aqueous extracts	Dr. D.Balasundaram
2019-2021	P19390903	M.Arjun	Isolation, characterization and determining the ability of protease production bacteria from soil	D.Meharajbegum
2019-2021	P19390904	L.Asath ali	production of herbal fermented honey using isolated <i>Candida</i> sp. and analysis of antimicrobial and antioxidant activity	Dr. R.Suja pandian
2019-2021	P19390905	K.Chandira	Antimosquitoicidal activity and phytochemical analysis of leaf extract in <i>Justicia adhatoda</i>	D.Meharajbegum
2019-2021	P19390906	S.Dhavamani	phytochemical investigations and antibacterial activity of <i>Cayratia trifolia</i> plant extract against pathogenic bacteria	D.Meharajbegum
2019-2021	P19390907	B.Divya Dharshini	Screening of phytochemicals and evaluation of antimicrobial activity of <i>Aristolochia bracteolata</i> leaves extract against diabetic foot ulcer causing micro	Dr. R. Shalini
2019-2021	P19390908	N.Ishwarya	evaluation of phytochemical and invitro antimicrobial activity of <i>Moringa oleifera</i> leaves extract against urinary tract causing pathogens	Dr. R. Shalini
2019-2021	P19390909	T. Karthika	phytochemical analysis and antimicrobial properties of <i>Moringa oleifera</i> leaves extract against urinary tract causing microbes	Dr. P. SURYA
2019-2021	P19390910	M.Keerthika	evaluation of phytochemical and invitro antimicrobial activity of <i>Eclipta prostrata</i> leaves	Dr. P. SURYA
2019-2021	P19390911	M.Maha	screening of antimicrobial activities and antifungal activities of <i>Cyrtia peltata</i> plant extracts on some selected pathogenic microorganism	Dr. P. SURYA
2019-2021	P19390912	S.Manikandan	studies on screening and quality evaluation of the raw coconut (<i>Cocos nucifera</i> L.) water, raw coconut milk and raw coconut scrappings during freezing	Dr. D. Balasundaram
2019-2021	P19390913	P.Mohana priya	Invitro micropropagation of <i>Cayratia trifolia</i> (L) domain in traditional medicinal plant from node and leaf explants	S.Durga devi
2019-2021	P19390914	H.Museriya	production and optimization of protease enzyme using rice bran substrate by <i>Streptomyces griseus</i> and <i>Streptomyces clavuligerus</i>	S.Durga devi
2019-2021	P19390915	K.Narpavi	evaluation of phytochemical and invitro antimicrobial activity of <i>Eclipta prostrata</i> leaves	M. Dineshkumar
2019-2021	P19390916	S.Pooja	antibacterial activity and phytochemical screening of <i>Melia azadirach</i> L against urinary tract pathogens	M. Dineshkumar
2019-2021	P19390917	B.Prakash	screening of antibacterial activity and antifungal activity of the crude extract of <i>Celastrus paniculatus</i> wild on selected pathogenic bacteria and fungus	Dr. P. SURYA
2019-2021	P19390918	B.Prasanth	in vitro antibacterial potential of <i>Melia azadirach</i> leaf extracts against some human pathogenic bacterial strains	Dr. P. SURYA
2019-2021	P19390919	V.Priya	Screening of bioactive in ethonolic leaf extract of <i>Celastrus paniculatus</i> plant by using qualitative phytochemical analysis	Dr. D. Elamparthi
2019-2021	P19390920	C.Roshan	Synthesis silver nanoparticles using aqueous leaf extract of <i>Cyrtia peltata</i>	Dr. D. Elamparthi
2019-2021	P19390921	B.Ruba	Green synthesis and characterization of silver nanoparticles using <i>Cayratia</i> extract	Dr. D. Balasundaram
2019-2021	P19390922	V.Rubila	A study concerning in vitro conservation strategies using <i>Cayratia trifolia</i> domain protocol for micro propagation from node leaf explants	Dr. D. Elamparthi
2019-2021	P19390923	R.Sowmiya	Synthesis silver nanoparticles using aqueous leaf extract of <i>Cyrtia peltata</i>	Dr. D. Elamparthi
2019-2021	P19390924	R.Suba	Green synthesis and characterization of silver nanoparticles using <i>Cayratia</i> extract	Dr. D. Elamparthi


 HOD

IQAC

PRINCIPAL

**SCREENING OF INVITRO ANTHELMINTIC ACTIVITY OF
Cassia alata LEAVES AND FLOWERS**

Dissertation Submitted to
Bharadhidasan University, Tiruchirappalli

*In the partial fulfilment of the requirement for the award of
the Degree of*

MASTER OF SCIENCE IN MICROBIOLOGY

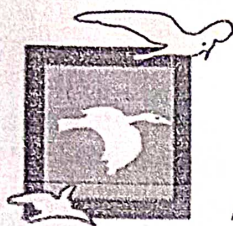
Submitted by
G.AKILANDESWARI
Register No: P19390901



Under the Guidance of
Dr. R. SUJA PANDIAN, M.Sc., M.Phil., Ph.D.,
ASSISTANT PROFESSOR,

DEPARTMENT OF BIOCHEMISTRY.
ANNAI COLLEGE OF ARTS & SCIENCE
KOVILACHERI – KUMBAKONAM. 612503

APRIL - 2021



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CERTIFICATE

I here certify that the thesis entitled "SCREENING OF DIFFERENT SOLVENT EXTRACTS OF SPILANTHES CALVA DC AND SYNTHESIS OF SILVER NANO PARTICLES USING THE AQUEOUS EXTRACTS" submitted to University, for the award of degree of Master of Science in of *Microbiology* embodies the result of bonafide research work carried out by

M. ANJALI

(Reg. No: P19390902)

Under my guidance and supervision in the Annai College of Arts & Science, Kovilacheri, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirappalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

Signature, Head of the Department

Signature of the Guide

Submitted for Viva Voce Examination held on 30.03.2021

Examiner : 1. [Signature]

2. [Signature]



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CERTIFICATE

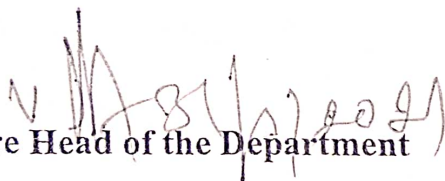
I hereby certify that the thesis entitled **“ISOLATION, CHARACTERIZATION AND DETERMINING THE ABILITY OF PROTEASE PRODUCTION BACTERIA FROM SOIL**


” submitted to University, for the award of degree of Master of Science in Microbiology embodies the result of bonafide research work carried out by

M.ARUN

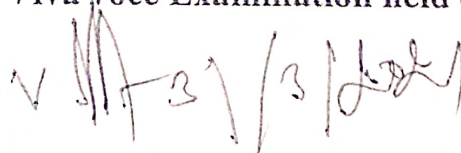
(REG NO: P19390903)

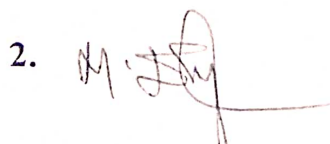
Under my guidance and supervision in the Annai College of arts & Science Kovilachery, Kumbakonam (Affiliated to Bharathidasan University, Tiruchirappalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.


Signature Head of the Department


Signature of the Guide 30/3/21

Submitted for Viva voce Examination held on 30/3/21

Examiners: 1. 

2. 



PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY
ANNAI COLLEGE OF ARTS & SCIENCE,
Kovilacheri, Kumbakonam,
(Affiliated to Bharathidasan University, Tiruchirappalli)
Thanjavur District, Tamilnadu. Pin - 612 503

Dr. R. SUJA PANDIAN, M.Sc., M.Phil., Ph.D.

Date: 30.03.2021

Assistant Professor,
PG and Research Department of Biochemistry,

CERTIFICATE

This is to certify that the dissertation entitled "PRODUCTION OF HERBAL FERMENTED HONEY USING ISOLATED *Candida* sp. AND ANALYSIS OF ANTIMICROBIAL AND ANTIOXIDANT ACTIVITY" submitted by ASATH ALI. L (REG. No. : P 19390904) in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MICROBIOLOGY, PG and Research Department of Microbiology, Annai College of Arts & Science, (Affiliated to Bharathidasan University, Tiruchirappalli), Kumbakonam, is a bonafide work done by her under my guidance and supervision during the academic year 2019-2021. This dissertation has not previously formed the basis for the award of any degree or fellowship.

Signature of the HOD

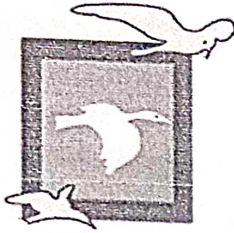
Signature of the Guide

Dept. of Microbiology

Submit for Viva-voce examination held on 30.03.2021

Examiners

1. S. Meheri Begum 31/3/21
2. Mr. J. Jey



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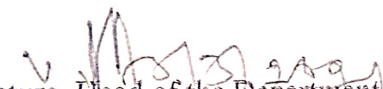
CERTIFICATE

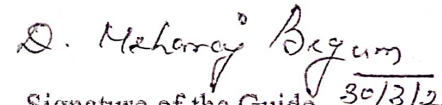
I here certify that the thesis entitled "ANTIMOSQUITOCIDAL ACTIVITY AND PHYTOCHEMICAL ANALYSIS OF LEAF EXTRACT IN JUSTICIA ADHADOTO" submitted to University, for the award of degree of Master of Science in of *Microbiology* embodies the result of bonafide research work carried out by

K. CHANDIRA

(Reg. No: P19390905)

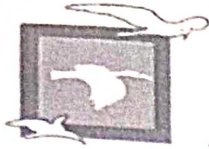
Under my guidance and supervision in the Annai College of Arts & Science, Kovilacheri, Kumbakonam (Affiliated to Bharadhidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.


Signature, Head of the Department


Signature of the Guide 30/3/21

Submitted for Viva Voce Examination held on 30/03/2021

Examiner : 1. V. N. Srinivasan 30/3/2021
2. M. Jeyapriya



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D. MEHARAJ BEGUM, M.Sc., M.Phil.,

Department of Microbiology

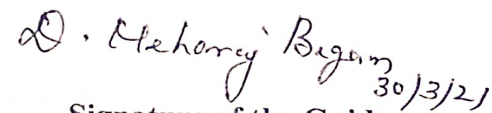
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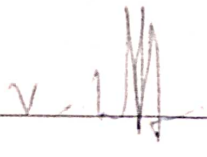
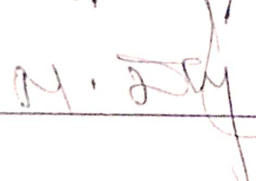
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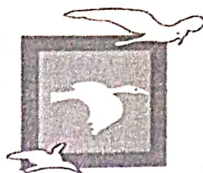

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Examiners:

1.  30/3/2021
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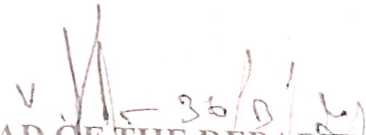
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KOVILACHERI, KUMBAKONAM

Dr. R. SHALINI, M.Sc., M.Phil., Ph.D.,
Assistant Professor, Department of Biochemistry

CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "SCREENING OF PHYTOCHEMICALS AND EVALUATION OF ANTIMICROBIAL ACTIVITY OF *Aristolochia bracteolata* LEAVES EXTRACT AGAINST DIABETIC FOOT ULCER CAUSING MICROBES" submitted by B. DIVYA DHARSHINI (Reg. No. P19390907), to the Bharathidasan University in partial fulfillment of requirement for the award of the degree of Master of Science in Microbiology, during the period (2020-2021) is the original work of the candidate. The project work was carried out under the guidance and supervision. I further certify that this dissertation had not previously formed the basis for the award of any degree, diploma or fellowship to the candidate.

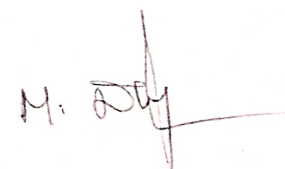

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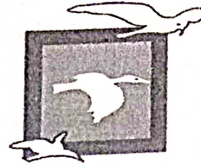

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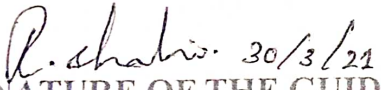


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Assistant Professor, Department of Biochemistry

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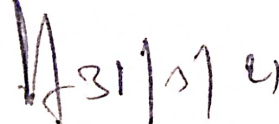
This is to certify that the project work was done under my guidance and the dissertation entitled "EVALUATION OF PHYTOCHEMICAL AND IN VITRO ANTIMICROBIAL ACTIVITY OF *Cissus quadrangularis* AGAINST SKIN CAUSING PATHOGENS" submitted by N. ISHWARYA (Reg. No. P19390908), to the Bharathidasan University in partial fulfillment of requirement for the award of the degree of Master of Science in Microbiology, during the period (2020-2021) is the original work of the candidate. The project work was carried out under the guidance and supervision. I further certify that this dissertation had not previously formed the basis for the award of any degree, diploma or fellowship to the candidate.


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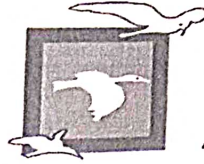
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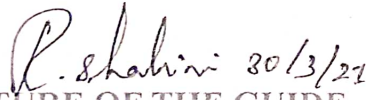


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Dr. R. SHALINI, M.Sc., M.Phil., Ph.D.,
Assistant Professor, Department of Biochemistry

CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "PHYTOCHEMICAL ANALYSIS AND ANTIMICROBIAL PROPERTIES OF *Moringa oleifera* LEAVES EXTRACT AGAINST URINARY TRACT CAUSING MICROBES" submitted by T. KARTHIKA (Reg. No. P19390909), to the Bharathidasan University in partial fulfillment of requirement for the award of the degree of Master of Science in Microbiology, during the period (2020-2021) is the original work of the candidate. The project work was carried out under the guidance and supervision. I further certify that this dissertation had not previously formed the basis for the award of any degree, diploma or fellowship to the candidate.



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KOVILACHERI, KUMBAKONAM

Dr. P. SURIYA, M.Sc., Ph.D., ADTP.,
Head and Assistant Professor, Department of Biochemistry

CERTIFICATE

This is to certify that the project work was done under my guidance and the dissertation entitled "EVALUATION OF PHYTOCHEMICAL AND IN VITRO ANTIMICROBIAL ACTIVITY OF *Eclipta prostrata* LEAVES EXTRACT" submitted by M. KEERTHIKA (Reg. No. P19390910), to the Bharathidasan University in partial fulfillment of requirement for the award of the degree of Master of Science in Microbiology, during the period (2019-2021) is the original work of the candidate. The project work was carried out under the guidance and supervision. I further certify that this dissertation had not previously formed the basis for the award of any degree, diploma or fellowship to the candidate.

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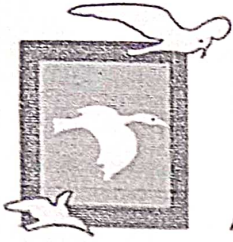
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CERTIFICATE

I here certify that the thesis entitled "SCREENING OF ANTIMICROBIAL ACTIVITIES AND ANTIFUNGAL ACTIVITIES OF Cyclea peltata PLANT EXTRACTS ON SOME SELECTED PATHOGENIC MICROORGANISM" submitted to University, for the award of degree of Master of Science in of *Microbiology* embodies the result of bonafide research work carried out by

M. MAHA

(Reg. No: P19390911)

Under my guidance and supervision in the Annai College of Arts & Science, Kovilacheri, Kumbakonam (Affiliated to Bharadhidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

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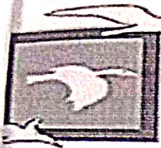
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1. V. Mahalingam

2. M. Jeyaraj



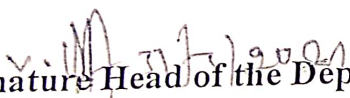
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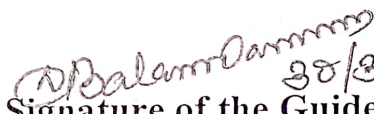
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I hereby certify that the thesis entitled "STUDIES ON SCREENING AND QUALITY EVALUATION OF THE RAW COCONUT (*Cocos nucifera* L.) WATER, RAW COCONUT MILK AND RAW COCONUT SCRAPPINGS DURING FREEZING CONDITIOIN" submitted to University, for the award of degree of Master of Science in Microbiology embodies the result of bonafide research work carried out by

S. MANIKANDAN
(REG NO: P19390912)

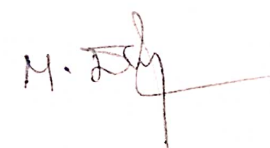
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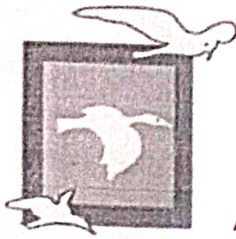

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I here certify that the thesis entitled **IN VITRO MICROPROPAGATION OF Cavratia trifolia (L) DOMAIN IN TRADITIONAL MEDICINAL PLANT FROM NODE AND LEAF EXPLANTS** submitted to University, for the award of degree of Master of Science in of Microbiology embodies the result of bonafide research work carried out by

P. MOHANA PRIYA

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V. V. Mani 30/3/21

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S. D. S. 30/3/21

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2. M. S. S.




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Mrs. S. DURGADEVI, M.Sc.,
Assistant Professor,
PG and Department of Microbiology,

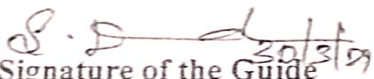
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This is to certify that the dissertation entitled "PRODUCTION AND OPTIMIZATION OF PROTEASE ENZYME USING RICE BRAN SUBSTRATE BY Streptomyces griseus AND Streptomyces clavuligerus" submitted by MUSERIYA. H (REG. No. : P 19390914) in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MICROBIOLOGY, PG and Research Department of Microbiology, Annai College of Arts & Science, (Affiliated to Bharathidasan University, Tiruchirappalli), Kumbakonam, is a bonafide work done by her under my guidance and supervision during the academic year 2019-2021. This dissertation has not previously formed the basis for the award of any degree or fellowship.




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Dept. of Microbiology


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S. POOJA

(Reg No: P19390916)

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S. Pooja

Signature of the Candidate

M. Jay

Signature of the Guide

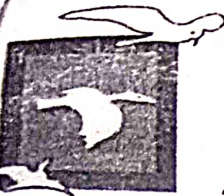
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M. Jay

M. Jay

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M. Jay



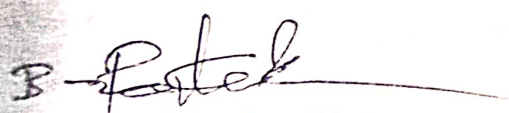
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Mr. B. PRAKASH

(Reg. No: P 19390917)

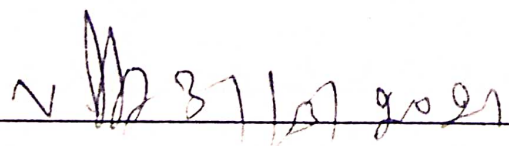
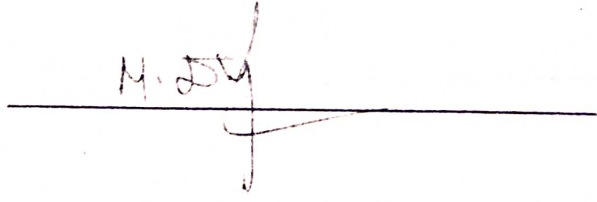
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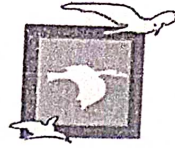

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Examiners:

1. 
2. 



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Dr. V. MOORTHY, M.Sc., M.Phil., Ph.D.,

ASSISTANT PROFESSOR AND HOD

PG RESEARCH DEPARTMENT AND MICROBIOLOGY,

ANNAI COLLEGE OF ARTS AND SCIENCE

Place: KOVILACHERY

Date : 30/03/2021

CERTIFICATE

This is to certify that the dissertation entitled "SCREENING OF BIOACTIVE IN ETHANOLIC LEAF EXTRACT OF *Celastrus paniculatus* PLANT BY USING QUALITATIVE PHYTOCHEMICAL ANALYSIS" submitted in partial fulfilment of the award of the degree of MASTER OF SCIENCE to the Annai college of Arts and Science, Kovilachery, is a record of Bonafide research work carried out by Mrs.V.PRIYA Under my supervision and guidance and that no part of this dissertation has been submitted for the award of any degree ,diploma ,fellowship or similar titles or prizes and that the work has not been published in part or full in any scientific or popular journal or magazine.

NAME : V. PRIYA .. MSc..

Reg.No : P19390919

V. M. 30/03/2021

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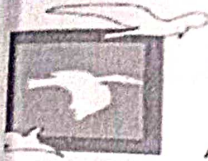
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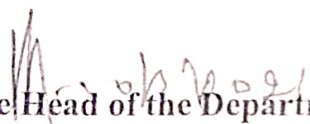
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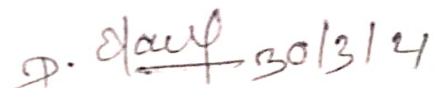
I hereby certify that the thesis entitled "SYNTHESIZE SILVER NANOPARTICLES USING AQUEOUS LEAFEXTRACT OF CYCLEA PELTATA AND CHARACTERIZE THE NANOPARTICLES USING SEM" submitted to University, for the award of degree of Master of Science in Microbiology embodies the result of bonafide research work carried out by

C.ROSHAN

(REG NO: P19390920)

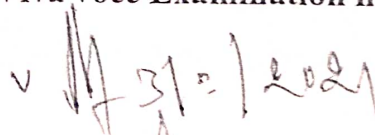
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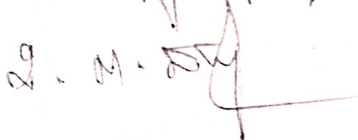
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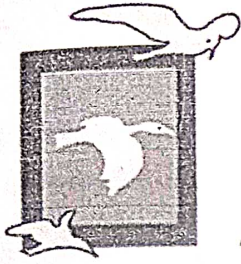
Signature  of the Guide

Dr.D.Elamparithi, M.Sc., M.Phil., Ph.D.,
Head & Assistant Professor,
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Kovilacheri-612 503. Cell:98946 54962

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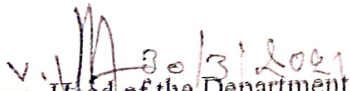
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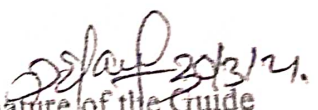
I here certify that the thesis entitled GREEN SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES USING Cayratia trifolia (L) EXTRACT AGAINST REPRESENTATIVE MICROORGANISMS submitted to University, for the award of degree of Master of Science in of *Microbiology* embodies the result of bonafide research work carried out by

B. RUBA

(Reg. No: P19390921)

Under my guidance and supervision in the Annai College of Arts & Science, Kovilacheri, Kumbakonam (Affiliated to Bharadhidasan University, Tiruchirapalli). I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

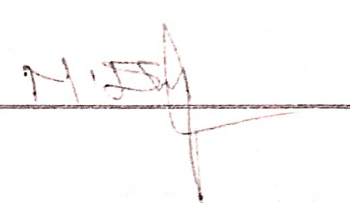

Signature, Head of the Department


Signature of the Guide

Dr.D.Elamparithi, M.Sc., M.Phil., Ph.D.,
Head & Assistant Professor,
PG & Research Department Of Biotechnology
Annai College Of Arts and Science
Kovilacheri-612 503. Cell:98946 54962

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CERTIFICATE

I here certify that the thesis entitled " A STUDY CONCERNING IN VITRO CONSERVATION STRATEGIES USING *Cayratia Trifolia* (L) DOMIN PROTOCOL FOR MICRO PROPAGATION FROM NODE AND LEAF EXPLANTS " submitted to University, for the award of degree of Master of Science in of Microbiology embodies the result of bonafide research work carried out by

Miss. V. RUBILA

(Reg. No: P 19390920)

Under my guidance and supervision in the Annai College of Arts & Science Kovilacheri, Kumbakonam (Affiliated to Bharadhidasan University, Tiruchirappalli) I further certify that under such help or source of information have been availed in this connection is duly acknowledged and that no part of the thesis has been submitted anywhere else for any other degree, diploma, fellowship or their similarities.

v. Rubila

Signature of the Candidate

B. Balaraman
30/3/2021
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Examiners:

1. v. M. 31/0/2021

2. M. J. J.