

DATE : 07.11.2022

To Whom So Ever It May Concern

This is certify that **Mr.N.AJITHKUMAR(21PMBC002) IInd M.Sc MEDICAL BIOCHEMISTRY** student of **MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE**, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022.

His performance during the period was good.

We wish him for all the success in his future endeavour.

for

For **BHARATH DIAGNOSTIC CENTRE**

BHARATH DIAGNOSTIC CENTRE
71/13, Trichy Main Road,
T.P.E. GOGULRAJAN (Proprietor)
NAMAKKAL - 637 001
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulraajan, B.Sc., M.L.T., Lab In-Charge



#71/13, Trichy Main Road, Namakkal - 637 001

+91 - 93447 66677 ☎ 98439 66677 📞

helpdesk.bharath@gmail.com 📧



DATE : 07.11.2022

To Whom So Ever It May Concern

This is certify that **Miss. B.M.KEERTHANA SRI (21PMBC003) IInd M.Sc.MEDICAL BIOCHEMISTRY** student of **MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE COLLEGE**, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022.

Her performance during the period was good.

We wish her for all the success in her future endeavour.

for
For **BHARATH DIAGNOSTIC CENTRE**

R. Sai [SALAMBA.P.]
BHARATH DIAGNOSTIC CENTRE
THARUGURAJAN (Proprietor)
71/13, Trichy Main Road,
NAMAKKAL - 637 001.
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulraajan, B.Sc., M.L.T., Lab In-Charge



#71/13, Trichy Main Road, Namakkal - 637 001

+91 - 93447 66677 ☎ 98439 66677 📞

helpdesk.bharath@gmail.com 📧



DATE : 07.11.2022

To Whom So Ever It May Concern

This is certify that Miss. S.KIRUTHIKA (21PMBC004) IInd M.Sc.MEDICAL BIOCHEMISTRY student of MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE COLLEGE, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022.

Her performance during the period was good.

We wish her for all the success in her future endeavour.

For
For BHARATH DIAGNOSTIC CENTRE

(Signature)
BHARATH DIAGNOSTIC CENTRE
T.P.E. 100 Trichy Main Road,
NAMAKKAL - 637 001.
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulraajan, B.Sc., M.L.T., Lab In-Charge



#71/13, Trichy Main Road, Namakkal - 637 001

+91 - 93447 66677 ☎ 98439 66677 📞

helpdesk.bharath@gmail.com 📧





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Valapadi (Po & Tk), Salem (Dt). Pin - 636 115. Ph : 04292 - 222888



09.09.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **MR. D. RAJ PAVITHRAN**, a student of II year M.Sc., (Medical Biochemistry), Muthayammal College of Arts and Science, Rasipuram has successfully completed his internship program in our hospital from 23.08.2022 to 09.09.2022. During the period of internship, he was punctual and sincere.

P. Anand

Dr. P. ANAND, MBBS., D.DIAB

Reg. No: 79909

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Diagnostic Centre
Since 1978

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This is certify that Miss. R.UMA (21PMBC006) IInd M.Sc.MEDICAL BIOCHEMISTRY student of MUTHAYANMAL COLLEGE OF ARTS & SCIENCE COLLEGE, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022

Her performance during the period was good.

We wish her for all the success in her future endevour.

for

For BHARATH DIAGNOSTIC CENTRE

[Signature]
BHARATH DIAGNOSTIC CENTRE
T.71/13 Trichy Main Road,
NAMAKKAL - 637 001 (Proprietor)
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulrajan, B.Sc., M.L.T., Lab In-Charge



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+91 - 93447 66677 @ 98439 66677

helpdesk.bharath@gmail.com





DATE : 07.11.2022

To Whom So Ever It May Concern

This is certify that Mr.A.VENKATESH (21PMBC007) IInd M.Sc.MEDICAL BIOCHEMISTRY student of MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE COLLEGE, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022

His performance during the period was good.

We wish him for all the success in his future endeavour.

for

For BHARATH DIAGNOSTIC CENTRE

R. Sai ——— *[SARANYA R]*

BHARATH DIAGNOSTIC CENTRE

71/13, Trichy Main Road,
NAMAkkAL - 637 001.
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulraajan, B.Sc., M.L.T., Lab In-Charge



#71/13, Trichy Main Road, Namakkal - 637 001

+91 - 93447 66677 ☎ 98439 66677 📞

helpdesk.bharath@gmail.com 📧



DATE : 07.11.2022

To Whom So Ever It May Concern

This is certify that Miss. P.SOBANA (219MBC008) IInd M.Sc.MEDICAL BIOCHEMISTRY student of MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE COLLEGE, Has successfully undergone internship training in our laboratory, Namakkal. Accomplished an internship from 24th August 2022 to 10th September 2022.

Her performance during the period was good.

We wish her for all the success in her future endeavour.

for
For BHARATH DIAGNOSTIC CENTRE

R. S. [SARANYA.R.]
T.P.E. GOGULRAJAN (Proprietor)

BHARATH DIAGNOSTIC CENTRE
71/13, Trichy Main Road,
NAMAKKAL - 637 001.
Cell: 98439 66677

T. Revathy, M.Sc., Micro Biologist

S. Selvakumar, M.Sc., Bio Chemistry

T.P.E. Gogulraajan, B.Sc., M.L.T., Lab In-Charge



#71/13, Trichy Main Road, Namakkal - 637 001

+91 - 93447 66677 98439 66677

helpdesk.bharath@gmail.com



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
CANCER ACTIVITY OF AQUEOUS EXTRACT USING
PSIDIUM GUAJAVA LEAVES USING CERVICAL
CANCER CELL LINE**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

DHAMODHARAN.P

Register number: 20PMB1001

Under the guidance of

Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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RASIPURAM – 637 408, NAMAKKAL DT – TAMILNADU

JUNE 2022



Mr. S. MAHARAJAN, M.Sc., M.Phil.,

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.

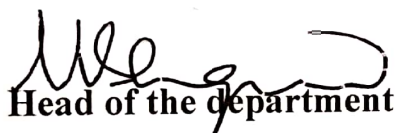


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This to certify that the thesis entitled “**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI CANCER ACTIVITY OF AQUEOUS EXTRACT USING *PSIDIUM GUAJAVA* LEAVES USING CERVICAL CANCER CELL LINE**” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** is a record of original research work done by **DHAMODHARAN.P (Reg No:20PMB1001)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department

S. Maharanjan
Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext: 1.  6/6/22
Int: 2. M. Su. 
06/06/2022

***IN VITRO* ANTIDIABETIC AND
CHARACTERIZATION OF SILVER NANOPARTICLE
ANALYSIS FOR AQUEOUS EXTRACT USING
CITRUS HYSTRIX LEAVES**

Dissertation submitted to
PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of
MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By
M.GOWTHAM

Register number: 20PMB1002

Under the guidance of
Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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Mr. S. MAHARAJAN, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.

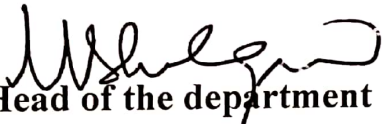


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Head of the department

S. maharajan
Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  06/06/22

2. M. Devi
06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTICANCER ACTIVITY OF CHLOROFORM
EXTRACT OF *CENTELLA ASIATICA* LEAVES USING
LUNG CANCER (A549)**

*Dissertation submitted to Periyar University, Salem in partial
fulfillment of the requirement for the award of degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

M. ILAKKIYA

Register number: 20PMB1008

Under the guidance of

T. RENUKA, M.Sc., M.Sc., M.Ed.,



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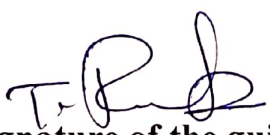
T. RENUKA, M.Sc., M.Sc., M.Ed.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



CERTIFICATE


This to certify that the thesis entitled “**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTICANCER ACTIVITY OF *CENTELLA ASIATICA* LEAVES BY USING CHLOROFORM EXTRACT**” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** is a record of original research work done by **ILAKKIYA .M (Reg No: 20PMB1008)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext: 1.  06/06/22
Int: 2. H. Devi
06/06/2022



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
CANCER ACTIVITY OF AQUEOUS EXTRACT OF
MICHELIA CHAMPACA LEAVES USING OVARIAN
CANCER CELL LINE (PA-1)**

*Dissertation submitted to Periyar University, Salem, in partial
fulfillment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

S. LOKESH

Register number: 20PMB1004

Under the guidance of

Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,



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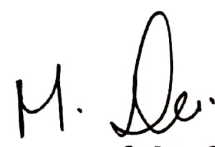
Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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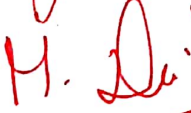
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Head of the Department


Signature of the Guide

Project submitted to the viva voice examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  06/06/22
2.  06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-
INFLAMMATORY, ANTICANCER ACTIVITY OF
METHANOL EXTRACT OF *ANNONA MURICATA* LEAVES
USING BREAST CANCER (MDA-MB-231)**

*Dissertation submitted to Periyar University, Salem in
partial fulfillment of the requirement for the award of degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

K. MEENA

Register number: 20PMB1009

Under the guidance of

N. PANNEERSELVAM, M.Sc., M.Phil.,



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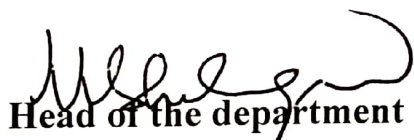



Mr. N. PANEERSELVAM, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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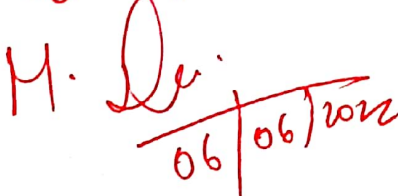
This to certify that the thesis entitled **“PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-INFLAMMATORY, ANTICANCER ACTIVITY OF *ANNONA MURICATA*”** submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** is a record of original research work done by **MEENA .K (Reg No: 20PMB1009)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  06/06/22
2.  06/06/2022



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
CANCER ACTIVITY OF AQUEOUS EXTRACT USING
ARTABOTRYS HEXAPETALUS LEAVES USING
CERVICAL CANCER CELL LINE (Hela)**

*Dissertation submitted to Periyar University, Salem in
partial fulfillment of the requirement for the award of degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

POOVENTHAN .R

Register number: 20PMB1005

Under the guidance of

Mr. N. PANNEERSELVAM, M.Sc., M.Phil.,



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JUNE 2022



Mr. N. PANEERSELVAM, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.

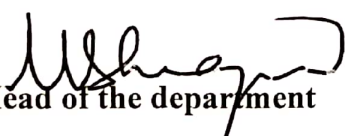


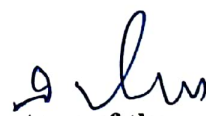
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Head of the department


Signature of the guide


Project submitted to the viva voice examination held on 06-06-22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.


06/06/22

2.


06/06/2022

xt!
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ALBUMIN FUNCTIONALIZED CHITOSAN BASED NANODELIVERY SYSTEM FOR ENHANCEMENT OF MICRONUTRIENT BIOAVAILABILITY

*Dissertation submitted to Periyar University, Salem,
in partial fulfilment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

C. PRASANNA

(Reg. No.20PMB1006)

Under the guidance of

Dr. G. Krishnamoorthy, M.Sc., M.Phil., Ph.D.,



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RASIPURAM – 637 408, NAMAKKAL DT – TAMILNADU

JUNE 2022



Dr. G. KRISHNAMOORTHY, M.Sc., M.Phil., Ph.D.,

Assistant Professor,
Department of Biochemistry,
Muthayammal Centre for Advanced Research,
Muthayammal College of Arts and Science,
Rasipuram – 637 408
Email Id: begky@muthayammal.in



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This is to certify that the thesis entitled "ALBUMIN FUNCTIONALIZED CHITOSAN BASED NANODELIVERY SYSTEM FOR ENHANCEMENT OF MICRONUTRIENT BIOAVAILABILITY" submitted for the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** by **C. PRASANNA (Reg.No.20PMB1006)** is the record of research work carried out by him during the period of 2020-2022 under my guidance and supervision and that this work has not formed the basis for any degree, diploma, associateship, fellowship or other titles in this university or institution of higher learning.


Head of the Department

Signature of the Guide

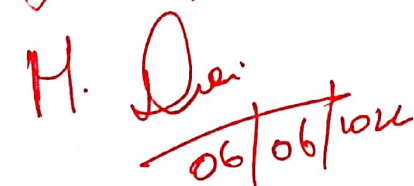
Project submitted to the viva voce examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.


06/06/22

2.


06/06/22



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
INFLAMMATORY, *IN VITRO* ANTIDIABETIC OF
ACETONE EXTRACT USING *SYZYGIUM
SAMARANGENSE* LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

SHREYA RAMESH

Register number: 20PMB1010

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,



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(AFFILIATED TO PERIYAR UNIVERSITY)

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RASIPURAM – 637 408, NAMAKKAL DT – TAMILNADU

JUNE 2022



Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.

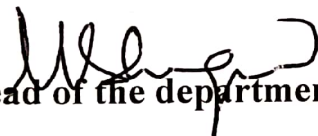


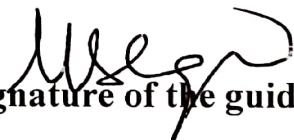
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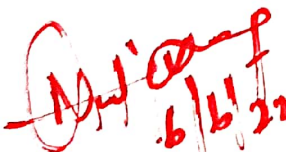
This to certify that the thesis entitled “**Phytochemical Analysis and *in vitro* anti-inflammatory, *in vitro* antidiabetic of acetone extract using *Syzygium samarangense* leaves**” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** is a record of original research work done by **SHREYA RAMESH (Reg No: 20PBC1010)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

- Exd!
1. 
6/6/22
2. H. Di
06/06/2022

**PHYTOCHEMICAL ANALYSIS, *IN VITRO*
ANTI-INFLAMMATORY AND ANTIDIABETIC
ACTIVITY OF ACETONE EXTRACT OF
MICHELIA CHAMPACA FLOWERS**

*Dissertation submitted to Periyar University, Salem, in partial
fulfillment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

SREEKOWSHIKA .T

Register number: 20PMB1011

Under the guidance of

Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,



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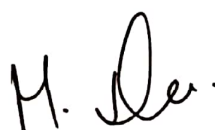
Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



CERTIFICATE


This to certify that the thesis entitled “PHYTOCHEMICAL ANALYSIS, *IN VITRO* ANTI-INFLAMMATORY AND ANTIDIABETIC ACTIVITY OF ACETONE EXTRACT USING *MICHELIA CHAMPACA* FLOWER” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** by **SREEKOWSHIKA .T (Reg No: 20PBC1011)** is a record of research work carried out by her during the period of 2020-2022 under my guidance and supervision and that this work has not formed the basis for any degree, diploma, associate ship, fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 06-06-22
at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
06/06/22
2. M. Devi
06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-
DIABETIC ACTIVITY OF CHLOROFORM EXTRACT
OF *SESBANIA GRANDIFLORA* LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of
MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

S. VIGNESH

Register number: 20PMB1007

Under the guidance of

Mrs. T. RENUKA, M.Sc., M.Sc., M.Ed.,



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Mrs. T. RENUKA, M.Sc., M.Sc., M.Ed.,

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



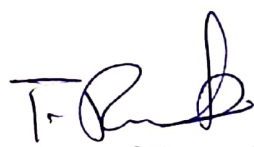
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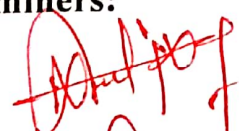
This to certify that the thesis entitled “**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-DIABETIC ACTIVITY OF *SESBANIA GRANDIFLORA***” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY** is a record of original research work done by **VIGNESH. S (Reg No: 20PMB1007)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06-06-22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext. 1.  06/06/22.
Int. 2. M. Du.
05/06/2022



**PHYTOCHEMICAL ANALYSIS, GREEN SYNTHESIS &
CHARACTERIZATION OF SILVER NANOPARTICLES AND
IN VITRO ANTI-DIABETIC ACTIVITY OF
HYDROMETHANOL EXTRACT OF *TAMARINDUS INDICA*
SEED KERNEL (ENDOSPERM)**

**Dissertation submitted to Periyar University, Salem in partial
fulfillment of the requirement for the award of degree of**

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

A. YAGAPRIYA

Register number: 20PMB1012

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,



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Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



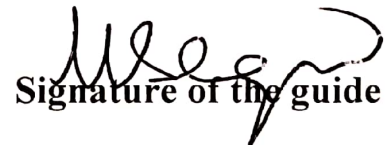
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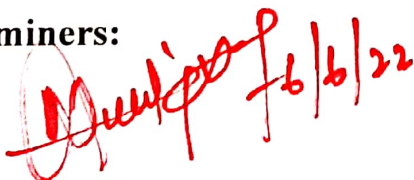

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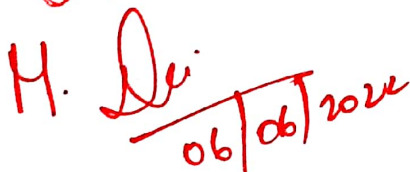
Project submitted to the viva voice examination held on 06-06-22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.


06/06/22

2.


06/06/2022



**PHYTOCHEMICAL ANALYSIS, *IN VITRO*
ANTIINFLAMMATORY AND ANTICANCER ACTIVITY
OF *COMMIPHORA CAUDATA* LEAVES USING
OVARIAN CANCER CELL LINES (PA-1)**

*Dissertation submitted to Periyar University, Salem, in partial
fulfillment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY

Submitted By

KESAVAN .G

Register number: 20PMB1003

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,



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Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,
Assistant Professor, Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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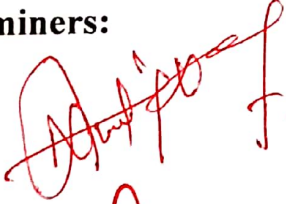
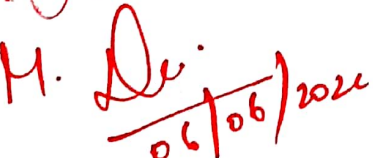
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Head of the Department


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Project submitted to the viva voce examination held on 06-06-22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext! 1.  6/6/22
Int! 2. M. De.  06/06/2022

2.



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTI-BACTERIAL, ANTI-DIABETIC EFFECT
ON *HIBISCUS CANNABINUS* LEAF EXTRACT**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

In partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

P.GANAPATHI

Register number: 20PBC1047

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.



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Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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Head of the department


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Project submitted to the viva voice examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.


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2.


06/06/2022

Ext:

Int:



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
INFLAMMATORY, CHARACTERIZATION OF SILVER
NANOPARTICLES OF ACETONE EXTRACT USING
MIMUSOPS ELENGI LEAVES**

Dissertation submitted to
PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of
MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

S. DHANUSHYA

Register number: 20PBC1052

Under the guidance of

Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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Mr. S. MAHARAJAN, M.Sc., M.Phil.,

Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



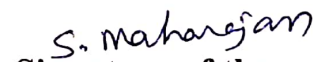
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Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  06/06/22
2. M. Devi
06/06/2022



**PHYTOCHEMICAL ANALYSIS, *IN VITRO*
ANTIDIABETIC ACTIVITY, GREEN SYNTHESIS AND
CHARACTERIZATION OF SILVER NANOPARTICLES OF
ETHANOL EXTRACT OF *DELONIX REGIA* LEAVES**

*Dissertation submitted to Periyar University, Salem, in partial
fulfillment of the requirement for the award of the degree of*

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

KAVINKUMAR .R

Register number: 20PBC1048

Under the guidance of

Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,



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Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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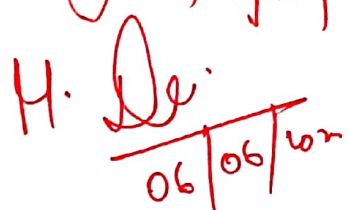
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Head of the Department


Signature the Guide

Project submitted to the viva voce examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext!
Int!
1. 
2. 



**PEPTIDES FUNCTIONALIZED CHITOSAN BASED
NANODELIVERY SYSTEM FOR ENHANCEMENT OF
 β -CAROTENE BIOAVAILABILITY**

**Dissertation submitted to Periyar University, Salem, in partial
fulfilment of the requirement for the award of the degree of**

MASTER OF SCIENCE INBIOCHEMISTRY

Submitted By

R. KESAVAN

(Reg. No.20PBC1049)

Under the guidance of

Dr. G. Krishnamoorthy, M.Sc., M.Phil., Ph.D.,



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Dr. G. KRISHNAMOORTHY, M.Sc., M.Phil., Ph.D.,



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Assistant Professor,
Department of Biochemistry,
Muthayammal Centre for Advanced Research,
Muthayammal College of Arts and Science,
Rasipuram – 637 408
Email Id: begky@muthayammal.in

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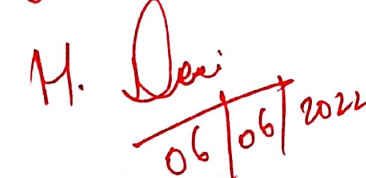
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Head of the Department

Signature of the Guide

Project submitted to the viva voce examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  06/06/22.
2.  06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTI-DIABETIC AND ANTI-OXIDANTACTIVITYOF
AQUEOUS EXTRACT USING *CARDIOSPERMUM*
HALICACABUM LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

**In Partial fulfilment of the requirement for the award of degree of
MASTER OF SCIENCE IN BIOCHEMISTRY**

Submitted By

A. KUVINRAJ

Register Number: 20PBC1050

Under the guidance of

Mrs.T. RENUKA, MSc., M.Sc., M.Ed.,



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Mrs.T.RENUKA, M.Sc., M.Ed.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



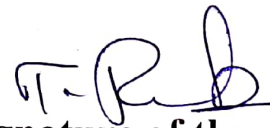
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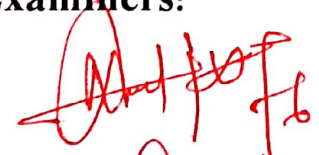
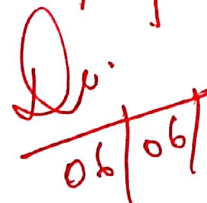
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Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06.06.2022 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

At 1.  06/06/22
At 2. M. D.  06/06/2022



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY
OF CHLOROFORM EXTRACT USING
TABERNAEMONTANA DIVARICATA LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

In partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

S. MANONMANI

Register number: 20PBC1054

Under the guidance of

Mr. N.PANEERSELVAM, M.Sc., M.Phil.,



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RASIPURAM – 637 408, NAMAKKAL DT – TAMILNADU

JUNE 2022



Mr. N. PANERSELVAM, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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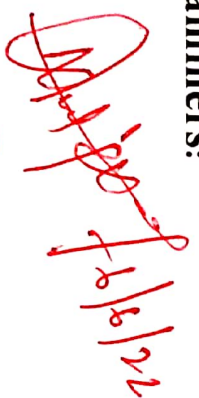

This to certify that the thesis entitled “PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY OF CHLOROFORM EXTRACT USING *TABERNAEMONTANA DIVARICATA*” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOCHEMISTRY** is a record of original research work done by **MANONMANI. S** (Reg No: 20PPBC1054) during the period of her study (2020 - 2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

- 
1. 06/06/22
- 
2. 06/06/2022

**PHYTOCHEMICAL ANALYSIS AND IN VITRO
ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY
OF AQUEOUS EXTRACT USING
LANTANA CAMARA LEAVES**

Dissertation submitted to
PERIYAR UNIVERSITY, SALEM – 636 011

*in partial fulfillment of the requirement for the award of degree
of*
MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

G. MONISHA

Register number: 20PBC1055

Under the guidance of

Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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RASIPURAM – 637 408, NAMAKKAL DT – TAMILNADU

JUNE 2022



Mr. S. MAHARAJAN, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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Head of the department

S. maharanjan
Signature of the guide

Project submitted to the viva voice examination held on *Dec 16, 2022*
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

- 
1. *12/12*
- 
2. *H. Devi*
06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY
OF CHLOROFORM EXTRACT USING
ANNONA SQUAMOSA LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

D. RAJSUKENDIRAN

Register number: 20PBC1051

Under the guidance of

Mrs. T. RENUKA, M.Sc.,M.Sc.,M.Ed.,



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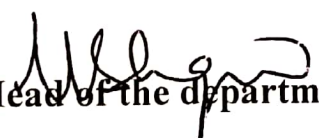
Mrs. T. RENUKA, M.Sc., M.Sc., M.Ed.,

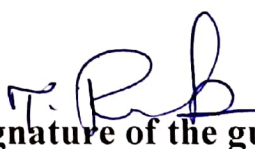
**Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.**



CERTIFICATE

This is to certify that the thesis entitled “**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY OF CHLOROFORM EXTRACT USING *ANNONA SQUAMOSA***” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOCHEMISTRY** is a record of original research work done by **RAJSUKENDIRAN. D (Reg No: 20PBC1051)** during the period of her study (2020 - 2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

Ext:

1. 
06/06/22

Int:

2. 
06/06/22



**PHYTOCHEMICAL ANALYSIS AND *IN-VITRO*
ANTI-DIABETIC, ANTI-INFLAMMATORY
ACTIVITY OF AQUEOUS EXTRACT USING
PIPER BETEL LEAVES**

Dissertation submitted to

PERIYAR UNIVERSITY, SALEM – 636 011

In Partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

DHIVYADHARSHINI .M

Register number: 20PBC1053

Under the guidance of

Mr. N. PANNEERSELVAM, M.Sc., M.Phil.,



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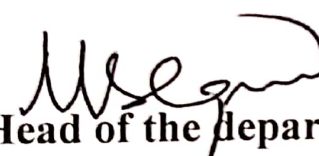


Mr. N.PANNEERSELVAM, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



CERTIFICATE

This to certify that the thesis entitled “**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC, ANTI INFLAMMATORY ACTIVITY OF AQUEOUS EXTRACT USING *PIPER BETEL***” submitted in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOCHEMISTRY** is a record of original research work done by **DHIVYA DHARSHINI .M (Reg No: 20PBC1053)** during the period of her study (2020-2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 06.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
06/06/2022

2. 
06/06/2022

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
DIABETIC ACTIVITY OF AQUEOUS EXTRACT OF
*LANTANA CAMARA***

**Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

**V. DEVAKI - 19UBC1159
V. ANANDHAJOTHI - 19UBC1154
M. KANISHKA - 19UBC1168
S. PREETHIGA - 19UBC1181**

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,



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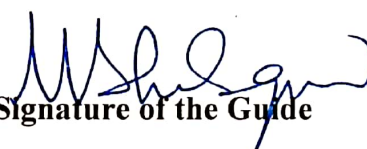
Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



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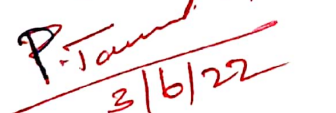
This is to certify that the miniproject entitled " **PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC ACTIVITY OF AQUEOUS EXTRACT OF *LANTANA CAMARA***" submitted for the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **DEVAKI V(19UBC1159), ANANDHAJOTHI V (19UBC1154), KANISHKA M (19UBC1168), PREETHIGA S (19UBC1181)** is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 3.06.22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
3/6/22
2. 
3/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
DIABETIC ACTIVITY OF CHLOROFORM EXTRACT
OF *CENTELLA ASIATICA***

**Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

**R. KARTHIKEYAN - 19UBC1196
S. VIGNESH - 19UBC1194
M. GOWTHAM - 19UBC1164
N. SIVAGNAMAM - 19UBC1197**

Under the guidance of

Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,



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Dr. M. SHABANA BEGUM, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



CERTIFICATE


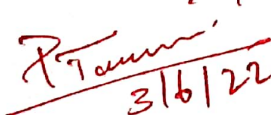
This is to certify that the miniproject entitled "PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC ACTIVITY OF CHLOROFORM EXTRACT OF *CENTELLA ASIATICA*" submitted for the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **R. KARTHIKEYAN (19UBC1196), S. VIGNESH (19UBC1194), M. GOWTHAM (19UBC1164), N. SIVAGNANAM (19UBC1197)** is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 03/06/22 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

- 
3/6/22
- 
3/6/22

**IN VITRO ANTI-DIABETIC ACTIVITY AND GREEN
SYNTHESIS AND CHARACTERISATION OF SILVER
NANOPARTICLE OF AQUEOUS EXTRACT OF
MICHELIA CHAMPACA LEAVES**

**Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN BIOCHEMISTRY**

Submitted By

**P.GOWTHAM - 19UBC1165
S.GOWTHAMAN - 19UBC1166
R. HARISUNDHARI - 19UBC1167
C.KOKILA -19UBC1171
M.NAVANEETHA -19UBC1178**

Under the guidance of

Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,



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RASIPURAM - 637 408, NAMAKKAL DT - TAMILNADU

MAY 2022



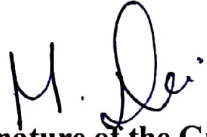
Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



CERTIFICATE


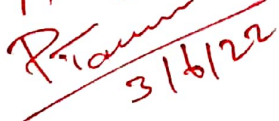
This is to certify that the miniproject entitled " *IN VITRO* ANTI-DIABETIC ACTIVITY AND GREEN SYNTHESIS AND CHARACTERISATION OF SILVER NANOARTICLE OF AQUEOUS EXTRACT OF *MICHELIA CHAMPACA* LEAVES " submitted for the degree of BACHELOR OF SCIENCE IN BIOCHEMISTRY by P.GOWTHAM (19UBC1165), S.GOWTHAMAN (19UBC1166), R.HARISUNDHARI (19UBC1167), C.KOKILA (19UBC1171) and M.NAVANEETHA (19UBC1178) is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 03.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  03/6/22
2.  3/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-
INFLAMMATORY ACTIVITY OF ETHANOL
EXTRACT OF *DELONIX REGIA* LEAVES**

**Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

B.DHANUSH - 19UBC1060

M.NANDHINI – 19UBC1177

S. PRAVEEN DEEPAK – 19UBC1180

M. SWETHA -19UBC1192

Under the guidance of

Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,



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MAY 2022



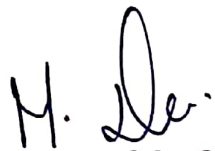
Dr. M. DEVI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



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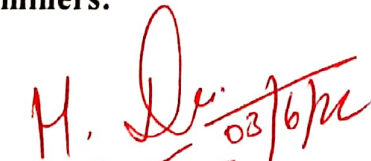

This is to certify that the miniproject entitled " **PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI-INFLAMMATORY ACTIVITY OF ETHANOL EXTRACT OF *DELONIX REGIA* LEAVES** " submitted for the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **B.DHANUSH (19UBC1160), M.NANDHINI (19UBC1177), S.PRAVEEN DEEPAK (19UBC1180) and M.SWETHA (19UBC1192)** is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 03.6.22 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
08/6/22
2. 
3/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTI INFLAMMATORY ACTIVITY OF
AQUEOUS EXTRACT USING
SYZYGIUM CUMINI LEAVES**

Mini project submitted to PERIYAR UNIVERSITY
in partial fulfillment of the requirement for the award of degree of

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

B. Suryagandan - 19UBC1191

K. Saran - 19UBC1187

P. Elavarasan - 19UBC1162

K. Manikandan - 19UBC1173

K. Gayathri - 19UBC1163

Under the guidance of

Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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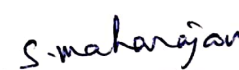
Mr. S. MAHARAJAN, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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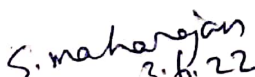

This to certify that the thesis entitled **“PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI INFLAMMATORY ACTIVITY OF AQUEOUS EXTRACT USING *SYZYGIUM CUMINI* LEAVES”** submitted in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **B.Suryagandan (19UBC1191), K.Saran (19UBC1187), P.Elavarasan (19UBC1162), K.Manikandan (19UBC1173), K.Gayathri (19UBC1163)** is the record of original research work done during the period of the study (2019 - 2022) in the Department of Biochemistry, Muthayammal College of Arts and Science, Rasipuram under my supervision and guidance.


Head of the department


Signature of the guide

Project submitted to the viva voice examination held on 03.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
3/6/22
2. 
3/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTI INFLAMMATORY ACTIVITY OF
AQUEOUS EXTRACT USING
CITRUS HYSTRIX LEAVES**

**Mini project submitted to PERIYAR UNIVERSITY
in partial fulfillment of the requirement for the award of degree of
BACHELOR OF SCIENCE IN BIOCHEMISTRY**

Submitted By

**R.BANPRAKASH – 19UBC1155
K.BHUVANESWARI – 19UBC1156
R.KARTHICK – 19UBC1169
K.MADUMITHA – 19UBC1172
M.NANDHINI – 19UBC1176**

Under the guidance of

Mr. S. MAHARAJAN, M.Sc., M.Phil.,



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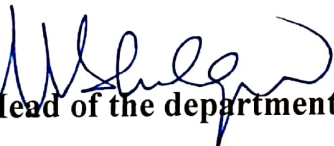


Mr. S. MAHARAJAN, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram - 637 408.



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Head of the department

S. Maharanjan
Signature of the guide

Project submitted to the viva voice examination held on 03.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. S. Maharanjan
3/6/22
2. P. Ram
3/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTIDIABETIC ACTIVITY OF ETHANOL EXTRACT
OF *MANGIFERA INDICA* LEAVES**

**Miniproject submitted to Periyar University, Salem in
partial fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

**R. BOOBALAN - 19UBC1157
R. MANIVEL - 19UBC1174
M. RAJESH - 19UBC1183
R. VIGNESH - 19UBC1193
E. RUBASRI - 19UBC1195**

Under the guidance of

Ms. R. ABIRAMI, M.Sc.,



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MAY 2022



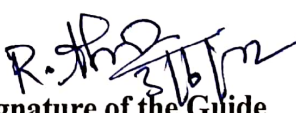
Ms. R. ABIRAMI, M.Sc.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



CERTIFICATE


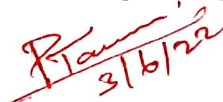
This is to certify that the Miniproject entitled "**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIDIABETIC ACTIVITY OF ETHANOL EXTRACT OF *MANGIFERA INDICA* LEAVES**" submitted for the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **R. BOOBALAN (19UBC1157), R. MANIVEL (19UBC1174), M. RAJESH (19UBC1183), R. VIGNESH (19UBC1193) and E. RUBASRI (19UBC1195)** is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/Diploma/Associate ship/Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 3.06.2022 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1.  03/6/22
2.  3/6/22



**PHYTOCHEMICAL ANALYSIS AND *IN VITRO*
ANTIMICROBIAL ACTIVITY OF METHANOL
EXTRACT OF *ANNONA RETICULATA* LEAVES**

*Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of*

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

NISHASATHIVIKA .R - 19UBC1179

PREMKUMAR .J.T - 19UBC1182

SABARITHAN .N - 19UBC1185

SAKTHI .S - 19UBC1186

SURESHKUMAR .S - 19UBC1190

Under the guidance of

T. RENUKA, M.Sc., M.Sc., M.Ed.,



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MAY 2022

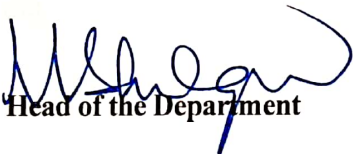


T.RENUKA, M.Sc., M.Sc., M.Ed.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



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This is to certify that the miniproject entitled "**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTIMICROBIAL ACTIVITY OF METHANOL EXTRACT OF *ANNONA RETICULATA* LEAVES**" NISHASATHIVIKA.R – 19UBC1179, SABARITHAN.N – 19UBC1185, SAKTHILS – 19UBC1186, PREMKUMAR.J.T – 19UBC1182, SURESHKUMAR.S – 19UBC1190 submitted for the degree of is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voice examination held on 05.06.2022 at Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
29/6/22
2. 
31/6/22

**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI
MICROBIAL ACTIVITY OF METHANOL EXTRACT
OF *ANNONA MURICATA* LEAVES**

**Miniproject submitted to Periyar University, Salem in partial
fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted By

**S. CHANDRU - 19UBC1158
G. DURGADEVI - 19UBC1161
R. RANJITH - 19UBC1184
A. SEENUVASAN - 19UBC1188
M. SRIDHARAN - 19UBC1189**

Under the guidance of

N. PANNEERSELVAM, M.Sc., M.Phil.,



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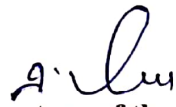
N. PANNEERSELVAM, M.Sc., M.Phil.,
Assistant Professor,
Department of Biochemistry,
Muthayammal College of Arts and Science,
Rasipuram – 637 408.



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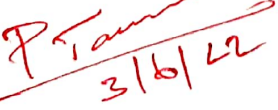
This is to certify that the miniproject entitled "**PHYTOCHEMICAL ANALYSIS AND *IN VITRO* ANTI MICROBIAL ACTIVITY OF METHANOL EXTRACT OF *ANNONA MURICATA* LEAVES**" submitted for the degree of **BACHELOR OF SCIENCE IN BIOCHEMISTRY** by **CHANDRU .S (19UBC1158), DURGADEVI .G (19UBC1161), RANJITH .R (19UBC1184), SEENUVASAN .A (19UBC1188), SRIDHARAN .M (19UBC1189)** is the record of research work carried out by them during the period of 2019-2022 under my guidance and supervision and that this work has not formed the basis for any Degree/ Diploma/ Associate ship/ Fellowship or other titles in this university or institution of higher learning.


Head of the Department


Signature of the Guide

Project submitted to the viva voce examination held on 03/06/2022 at
Muthayammal College of Arts & Science, Rasipuram.

Examiners:

1. 
3/6/22
2. 
3/6/22

**EFFECTS OF LIGHT INTENSITY ON GREEN MICROALGAL GROWTH AND
PHYSIOLOGY**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM – 636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GIRIKARTHIKEYAN N

Reg. No: 20PBT1038

Under the guidance of

Dr. RAGHU CHANDRASEKARAN



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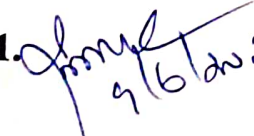

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This is to certify that the dissertation work entitled “**EFFECTS OF LIGHT INTENSITY ON GREEN MICROALGAL GROWTH AND PHYSIOLOGY**”, is a record of original work done by **GIRIKARTHIKEYAN N (Reg.No: 20PBT1038)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


Head AD
Department of Biotechnology
Muthayammal College of Arts & Science
Rasipuram - 637 408, Namakkal (Dt)
Tamilnadu, India


Guide 09/06/22
Dr. Raghu Chandrasekaran
Assistant Professor,
Department of Biotechnology (R&D)
Muthayammal College of Arts & Science,
Rasipuram - 637 408.

EXAMINERS

- 
9/6/22
- 
09/06/22

DECLARATION

**SUSTAINABLE MICROALGAL BIOMASS PRODUCTION USING CHICKEN
MANURE AS ALTERNATE NUTRIENT SOURCE**

Dissertation submitted to the
PERIYAR UNIVERSITY
SALEM-636 011
TAMILNADU

*For the partial fulfillment of the requirements
for the award of degree of*

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GOKUL RAJ S

Reg. No: 20PBT1039

Under the guidance of

Dr. RAGHU CHANDRASEKARAN



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Tamilnadu

June-2022

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This is to certify that the dissertation work entitled “Sustainable microalgal biomass production using chicken manure as alternate nutrient source”, is a record of original work done by **GOKUL RAJ S (Reg. No: 20PBT1039)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.

[Signature]
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Department of Biotechnology
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Rasipuram - 637 408, Namakkal (Dt)
Tamilnadu, India

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1. *[Signature]* 9/6/22
2. *[Signature]* 09/06/22

[Signature]
Guide 09/06/22

Dr. Raghu Chandrasekaran
Assistant Professor,
Department of Biotechnology (R&D)
Muthayammal College of Arts & Science,
Rasipuram - 637 408.

DECLARATION

**EVALUATION OF PIGMENT PRODUCTION FROM GREEN
MICROALGAE USING SUSTAINABLE NUTRIENTS**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GOWTHAM T

Reg. No: 20PBT1040

Under the guidance of

Dr. RAGHU CHANDRASEKARAN



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June-2022

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This is to certify that the dissertation work entitled "Evaluation of pigment production from green microalgae using sustainable nutrients", is a record of original work done by **GOWTHAM T (Reg. No: 20PBT1040)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


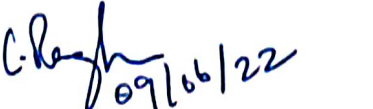

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Tamilnadu, India.


Guide

Dr. Raghu Chandrasekaran
Assistant Professor,
Department of Biotechnology (R&D)
Muthayammal College of Arts & Science,
Rasipuram - 637 408.

EXAMINERS

1. 
9/6/22
2. 
09/06/22

DECLARATION

**BIODEGRADATION OF TEXTILE DYES USING FUNGI ISOLATED FROM
TEXTILE EFFLUENT**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

HARISH. G

Reg. No: 20PBT1041

Under the guidance of

Dr. D. RAJASEKARAN, M.Sc., M.Phil., Ph.D.,



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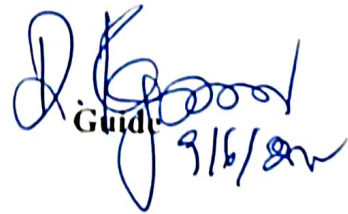
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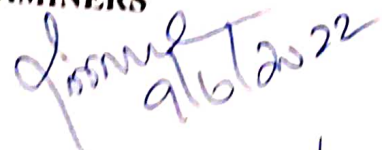
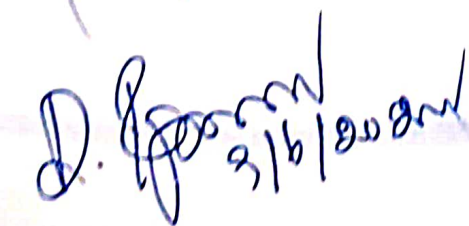
This is to certify that the dissertation work entitled “**Biodegradation of textile dyes using fungi isolated from textile effluent**”, is a record of original work done by **HARISH.G** (Reg.No: **20PBT1041**), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


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9/6/22

EXAMINERS

1. 
9/6/2022
2. 
9/6/2022

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**SYNTHESIS , CHARACTERIZATION OF SILVER NANOPARTICLES USING
RED SEAWEED *HALYMENIA VENUSTA* EXTRACT AGAINST CERVICAL
CANCER CELL LINE**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

KRISHNAPRAKASH.M

Reg. No: 20PBT1042

Under the guidance of

Dr. D.RAJASEKARAN, M.Sc., M.Phil., Ph.D.,



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Tamilnadu

June-2022



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This is to certify that the dissertation work entitled “*Synthesis, characterization of silver nanoparticles using red seaweed *Halymenia venusta* extract against cervical cancer cell line*”, is a record of original work done by KRISHNAPRAKASH.M (Reg.No: 20PBT1042), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


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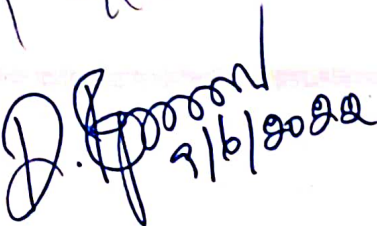
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Department of Biotechnology
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Tamilnadu, India.


Guide
9/6/22

EXAMINERS

1. 
9/6/22

2. 
9/6/22

DECLARATION

**SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES USING
ENICOSTEMMA LITTORALE LEAF EXTRACT AGAINST A549 LUNG CANCER
CELL LINE**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

LUNGPHAKBOU. CH

Reg. No: 20PBT1043

Under the guidance of

Dr. D. RAJASEKARAN, M.Sc., M.Phil., Ph.D.,



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This is to certify that the dissertation work entitled “Synthesis and Characterization of Silver nanoparticles using *Enicostemma littorale* leaf extract against A549 lung cancer cell line”, is a record of original work done by LUNGPHAKBOU CH (Reg. No: 20PBT1043), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.


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EXAMINERS

1. 
9/6/2022

2. 
9/6/2022

DECLARATION

**SYNTHESIS, CHARACTERIZATION OF ZINC NANOPARTICLES AND IT'S
ANTIBACTERIAL EFFICACY USING *JASMINUM SAMBAC* LEAF EXTRACT**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

NAVEEN.S

Reg. No: 20PBT1044

Under the guidance of

Dr. D.RAJASEKARAN, M.Sc., M.Phil., Ph.D.,



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MUTHAYAMMAL COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

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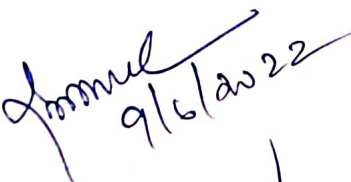
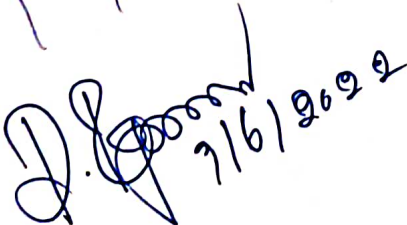
This is to certify that the dissertation work entitled “**Synthesis, Characterization of Zinc nanoparticles and it’s antibacterial efficacy using *Jasminum sambac* leaf extract**”, is a record of original work done by **NAVEEN.S (Reg.No: 20PBT1044)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


Head

Department of Biotechnology,
Muthayammal College of Arts & Science,
Resipuram - 637 408, Namakkal (Dt)
Tamilnadu, India.


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9/6/22

EXAMINERS

1. 
9/6/2022
2. 
9/6/2022

**SYNTHESIS OF ZINC NANOPARTICLE USING RED SEAWEED (*Jania rubens*) AND
IT'S IMPACT ON ANTICANCER ACTIVITIES**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements,

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

SATHISHKUMAR.P

Reg. No: 20PBT1045

Under the guidance of

Dr. D. RAJASEKARAN, M.Sc., M.Phil., Ph.D.,



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June-2022



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This is to certify that the dissertation work entitled “**Synthesis of Zinc Nanoparticle using Red Seaweed (*Jania Rubens*) and its Impact on Anticancer activities**”, is a record of original work done by **SATHISHKUMAR. P** (Reg.No: **20PBT1045**), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.

S. Sathish Kumar
Head

HEAD

Department of Biotechnology
Muthayammal College of Arts & Science
Rasipuram - 637 408, Namakkal (Dt)
Tamilnadu, India.

D. Sathish Kumar
Guide
9/6/2022

EXAMINERS

1. *S. Sathish Kumar*
9/6/2022

2. *D. Sathish Kumar*
9/6/2022

DECLARATION

**ANTIMICROBIAL ACTIVITY, PHYTOCHEMICAL AND GC-MS ANALYSIS
OF *DODONAEA VISCOSA* AGAINST GASTROENTERITIS CAUSING
BACTERIA**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

SRINIVAS. J

Reg. No: 20PBT1046

Under the guidance of

Dr. P.SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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(A Unit of VANETRA Group)

Accredited with 'A' Grade by NAAC

UGC Recognized 2(f) & 12(B) Status

Rasipuram-637 408, Namakkal Dt.

Tamilnadu

June-2022



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SUNNYVALE, INDIA

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This is to certify that the dissertation work entitled “Antimicrobial activity, phytochemical and gc-ms analysis of *Dodonaea viscosa* against gastroenteritis causing bacteria”, is a record of original work done by SRINIVAS J (20PBT1046), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN BIOTECHNOLOGY under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.




Head

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Department of Biotechnology
Muthayammal College of Arts & Science
Rasipuram - 637 408, Namakkal (Dt),
Tamilnadu, India.


Guide

EXAMINERS

1. 
2. 

DECLARATION

**MUTATIONAL AND MOLECULAR CHARACTERIZATION OF DRUG RESISTANT
BACILLUS CEREUS ISOLATED FROM HOSPITAL SOIL SAMPLES**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

YOGESH.S

Reg.No:20PBT1047

Under the guidance of

Dr.P.SELVAMALEESWARAN, M.Sc.,M.Phil.,Ph.D.,



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Guide

EXAMINERS

1. 
9/16/2022
2. 

**ANTIBACTERIAL ACTIVITY, PHYTOCHEMICAL SCREENING AND GC-MS
ANALYSIS OF AEGLE MARMELOS LEAF EXTRACT**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

CHRISTINA PUNGA. H

Reg. No: 20PBT1048

Under the guidance of

Dr. P. SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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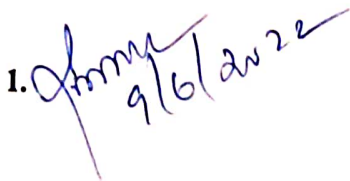
This is to certify that the dissertation work entitled “ **Antibacterial activity, phytochemical screening and GC-MS analysis of *Aegle marmelos* leaf extract**”, is a record of original work done by **CHRISTINA PUNGA II** (Reg.No: 20PBT1048), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


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EXAMINERS

1. 
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2. 

DECLARATION

A STUDY ON PHOSPHATE SOLUBILIZATION OF MARINE YEAST *CANDIDA TROPICALIS* AN EFFECTIVE BIOFERTILIZER

Dissertation submitted to the

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TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

DHIVYA. S

Reg. No: 20PBT1049

Under the guidance of

Dr. P.SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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**SYNTHESIS, CHARACTERIZATION OF SILVER NANOPARTICLES USING
SOLANUM TORVUM FRUIT EXTRACT FOR THE EFFICIENT ANTICANCER
ACTIVITY STUDY**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GAYATHRI S

Reg.No:20PBT1050

Under the guidance of

Dr.P.SELVAMALEESWARAN, M.Sc.,M.Phil.,Ph.D.,



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This is to certify that the dissertation work entitled "Synthesis, Characterization of Silver Nanoparticles Using *Solanum torvum* Fruit Extract for the Efficient Anticancer Activity Study", is a record of original work done by GAYATHRI S (20PBT1050), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN BIOTECHNOLOGY under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.

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1. *[Signature]* 9/6/2022

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**PHYTOCHEMICAL ANALYSIS & GREEN SYNTHESIS OF ZINC SULPHATE
NANOPARTICLES USING LEAF EXTRACT OF *COSTUS IGNEUS* & EVALUATION
THEIR ANTICANCER PROPERTY IN MCF-7 CELL LINE**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GOBIKA.P

Reg. No: 20PBT1051

Under the guidance of

K.CHITRA, M.Sc., M.Phil.,



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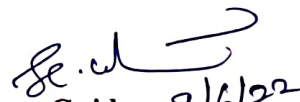


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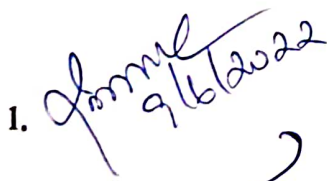
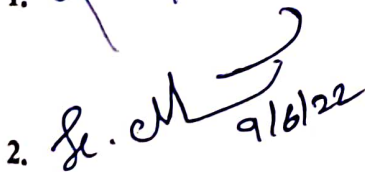
This is to certify that the dissertation work entitled "**Phytochemical Analysis and Green Synthesis of Zinc Sulphate Nanoparticle Using Leaf Extract of *Costus igneus* & Evaluation their Anticancer Property in Mcf-7 Cell Line**", is a record of original work done **GOBIKA P(20PBT1051)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.


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EXAMINERS

1.  9/6/2022
2.  9/6/22

DECLARATION

MICROPROPAGATION OF *WITHANIA SOMNIFERA* & CHARACTERIZATION OF SILVER NANOPARTICLES

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

GOKILA.P

Reg. No: 20PBT1052

Under the guidance of

K.CHITRA, M.Sc., M.Phil.,



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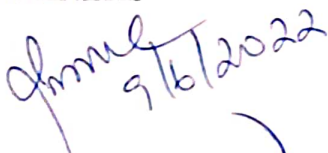
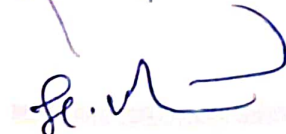
This is to certify that the dissertation work entitled "**Micropropagation of *Withania somnifera* and characterization of silver nanoparticles**", is a record of original work done by **GOKILA P (Reg.No: 20PBT1052)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.


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EXAMINERS

1. 
9/16/2022
2. 

**COMPARATIVE STUDY OF BLOOD COAGULATION ACTIVITY IN
TAGETES ERECTA LEAF EXTRACT**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

JAIMADHUBALA. C

Reg. No: 20PBT1053

Under the guidance of

K. CHITRA, M.Sc., M.Phil.,



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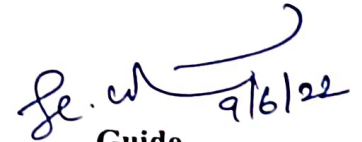
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EXAMINERS

1. 
9/6/22
2. 
9/6/22

**ANTIBACTERIAL ACTIVITY, ANTIOXITANT ACTIVITY AND PHYTOCHEMICAL
SCREENING OF *Syzygium cumini* LEAF EXTRACT**

Dissertation submitted to the

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For the partial fulfillment of the requirements

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MASTER OF SCIENCE IN BIOTECHNOLOGY

By

JAMUNADEVI.M

Reg. No: 20PBT1054

Under the guidance of

K.CHITRA, M.Sc., M.Phil .,



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B. J. J. 9/6/22

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Se. d. 9/6/22
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EXAMINERS

1. J. J. 9/6/22
2. Se. d. 9/6/22

**EVALUATION OF PHYTOCHEMICAL, ANTIBACTERIAL ACTIVITY AND
SYNTHESIS OF COPPER NANOPARTICLES USING LEAF EXTRACT OF**

AEGLE MARMELOS

Dissertation submitted to the

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For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

KEERTHANA .V

Reg. No: 20PBT1055

Under the guidance of

K.CHITRA, M.Sc., M.Phil.,



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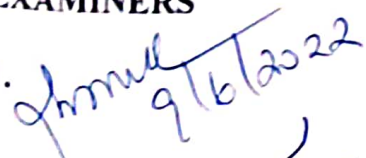
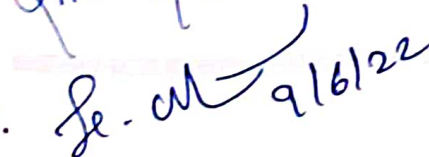
This is to certify that the dissertation work entitled “Evaluation of phytochemical, antibacterial activity and synthesis of copper nanoparticles using leaf extract of *Aegle marmelos*”, is a record of original work done by KEERTHANA V (20PBT1055), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


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EXAMINERS

1.  9/6/2022
2.  9/6/22

**ISOLATION AND CHARACTERIZATION OF FEATHER DEGRADING BACTERIA
FROM POULTRY WASTE**

Dissertation submitted to the

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*For the partial fulfillment of the requirements
for the award of degree of*

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

PAVITHRAA .M.S

Reg. No: 20PBT1056

Under the guidance of

Dr. D.KAVITHA, M.Sc., M.Phil., Ph.D.,



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B. Srinivasan
Head

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D. Kavitha
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EXAMINERS

1. *J. Anand*
9/6/2022

2. *D. Kavitha*
9/6/22

DECLARATION

**A STUDY ON PHARMACEUTICAL IMPORTANCE OF
IPOMOEA MURICATA STEM EXTRACT**

Dissertation submitted to the

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*For the partial fulfillment of the requirements
for the award of degree of*

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

PREETHA . S

Reg. No: 20PBT1057

Under the guidance of

Dr. P.SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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p.s. Mahalingam
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EXAMINERS

1. [Signature] 9/6/22
2. p.s. Mahalingam

**ANTIBACTERIAL AND LARVICIDAL EFFICACY OF GREEN SYNTHESIZED
ZINC-FERRITE NANOPARTICLES USING *NYCTHANTHES ARBOR-TRISTIS* LEAF
EXTRACT**

Dissertation submitted to the

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For the partial fulfillment of the requirements

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MASTER OF SCIENCE IN BIOTECHNOLOGY

By

PRITHIKA.P

Reg. No: 20PBT1058

Under the guidance of

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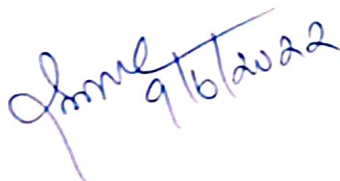

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EXAMINERS

1. 
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2. 
9/6/22

DECLARATION

**EFFECT OF VARIOUS SUBSTRATES ON GROWTH AND YIELD PERFORMANCE
OF OYSTER MUSHROOM (*PLEUROTUS OSTREATUS*)**

Dissertation submitted to the

PERIYAR UNIVERSITY

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TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

PRIYADHARSHINI.V

Reg. No: 20PBT1059

Under the guidance of

Dr.D.KAVITHA, M.Sc., M.Phil., Ph.D.,



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EXAMINERS

1. 
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2. 
9/6/22

DECLARATION

**BIODEGRADATION OF POLYTHENE BAGS USING BACTERIA ISOLATED
FROM CONTAMINATED SOIL**

Dissertation submitted to the

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SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

RASHIKA. M

Reg. No: 20PBT1060

Under the guidance of

Dr. D. KAVITHA, M.Sc., M.Phil., Ph.D.,



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This is to certify that the dissertation work entitled “**Biodegradation of polythene bags using bacteria isolated from contaminated soil**”, is a record of original work done by **RASHIKA M (20PBT1060)**, submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.

B. Srinivasan
9/16/22
Head

HEAD

Department of Biotechnology
Muthayammal College of Arts & Science
Rasipuram - 637 408, Namakkal (Dt)
Tamilnadu, India

D. Ravith
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EXAMINERS

- J. Srinivasan*
9/16/2022
- D. Ravith*
9/16/22

**BIODEGRADATION OF TEXTILE DYES USING BACTERIA ISOLATED
FROM TEXTILE EFFLUENT**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

REEMA.R

Reg. No: 20PBT1061

Under the guidance of

Dr. D. KAVITHA. . M.Sc., M.Phil., Ph.D.,



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Tamilnadu


June-2022

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This is to certify that the dissertation work entitled “**Biodegradation of Textile Dyes Using Bacteria Isolated from Textile Effluent**”, is a record of original work done by **REEMA.R** (Reg.No:20PBT1061), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN BIOTECHNOLOGY** under my supervision and guidance. This project work or any part of this work has not been submitted else where for the award of any other degree.


Head

Department of Biotechnology
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EXAMINERS

1. 
9/6/22

2. 
9/6/22

DECLARATION

**CELLULASE ENZYME PRODUCTION FROM DIFFERENT FRUITS PEEL
BY SUBMERGED FERMENTATION USING *ASPERGILLUS NIGER***

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

REVATHI. N

Reg. No: 20PBT1062

Under the guidance of

Dr. P.SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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Tamilnadu

June-2022

CERTIFICATE

**EVALUATION OF ANTIBACTERIAL AND ANTICANCER ACTIVITY OF
BIOSURFACTANT FROM MARINE BACTERIAL ISOLATE**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

SANDHIYA.R

Reg. No: 20PBT1063

Under the guidance of

Dr. P.SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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This is to certify that the dissertation work entitled "Evaluation of Antibacterial and Anticancer Activity of Biosurfactant from Marine Bacterial Isolate", is a record of original work done by SANDHIYA.R (Reg.No:20PBT1063), submitted to Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN BIOTECHNOLOGY under my supervision and guidance. This project work or any part of this work has not been submitted elsewhere for the award of any other degree.

S. S. Mahalingam
9/6/2022
Head
HEAD

Department of Biotechnology
Muthayammal College of Arts & Science
Rasipuram - 637 408, Namakkal (Dt),
Tamilnadu, India.

p. s. Mahalingam
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EXAMINERS

1. *J. S. Mahalingam*
9/6/2022
2. *p. s. Mahalingam*

**EVALUATION OF *INVITRO* ANTHELMINTIC ACTIVITY, PHYTOCHEMICAL
AND GC-MS ANALYSIS OF MEDICINALLY IMPORTANT PLANTS**

Dissertation submitted to the

PERIYAR UNIVERSITY

SALEM-636 011

TAMILNADU

For the partial fulfillment of the requirements

for the award of degree of

MASTER OF SCIENCE IN BIOTECHNOLOGY

By

VAIDEKI PRIYA T

Reg. No: 20PBT1064

Under the guidance of

Dr. P. SELVAMALEESWARAN, M.Sc., M.Phil., Ph.D.,



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June-2022



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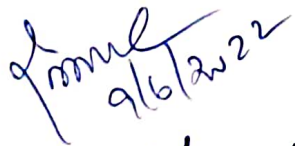


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2/11/2021

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BIOFERTILIZER PRODUCTION UNIT
SALEM

2/11/21

ASSISTANT DIRECTOR OF AGRICULTURE
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DEPARTMENT OF AGRICULTURE AND FARMER'S WELFARE

BIOFERTILIZER PRODUCTION UNIT

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Ms. Lakshmi
2/11/2021
AGRICULTURE OFFICER

BIOFERTILIZER PRODUCTION UNIT
SALEM

Ms. Lakshmi
2/11/21
ASSISTANT DIRECTOR OF AGRICULTURE
SALEM

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Dr. Venkatesh
21/11/2021

AGRICULTURE OFFICER
BIOFERTILIZER PRODUCTION UNIT
SALEM

[Signature]
21/11/21

ASSISTANT DIRECTOR OF AGRICULTURE
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21/11/2021

AGRICULTURE OFFICER
BIOFERTILIZER PRODUCTION UNIT
SALEM

M. S. S.
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This is to certify that Ms./Mr. VIJAYAVALLARASU.S. II-M.Sc., Applied Microbiology, Student of Muthayammal College of Arts & Science, Rasipuram Has Successfully Completed the Internship Training From 20.10.2021 To 2.11.2021 On Biofertilizer Production and Quality Control at Biofertilizer Production Unit, Salem.

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www.myagrinutrition.com

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30/11/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. S.R. Jeyaprakash (Reg. No. 20PAM1056)**, a student of Muthayammal College of Arts and Science, Rasipuram, had undertaken an internship placement from **May 2020** to **November 2021**.

The internship placement has been completed successfully to our satisfaction, and his conduct during the tenure of the project was good. He has undergone the following tasks during an internship:

1. Quality checks on all incoming raw materials, in-process materials, and finished goods.
2. Prepare needed documents for QA/QC as per ISO Standards.
3. Involved in new product development and enhancement of existing products.
4. Coordinated research preparation, quality, timeliness, and approval process.
5. Worked well in a team environment as well as independently.
6. Worked with teams to support goals and build experience.
7. Participated in research to support the goals and objectives of the employer and assigned team.
8. Supported day-to-day operations, assisting teammates with various tasks in the laboratory.
9. well-familiar with preparing various microbiology media.
10. Enumerate, Isolate and Identify microbes like various types of Mold and Bacteria from all the incoming raw materials and finished goods.
11. Learned ISO 9001:2015, GLP, and GDP.
12. Familiar with operating laboratory equipment independently, like an Autoclave, water bath, Digital Microscope, Shaking Incubator, BOD Incubator, PH Meter, etc.

Best Regards,

For **MY AGRINUTRITION**,

Senior Executive – HR

Technical Head

Managing Director

**ISOLATION, IDENTIFICATION AND ANTIBIOGRAM OF
SALMONELLA SPECIES FROM CHICKEN EGGS COLLECTED FROM
SELECTED AREAS IN SIRUVACHUR VILLAGE, ATTUR TALUK,
SALEM DISTRICT**

*Project Submitted to Periyar University, Salem in partial fulfillment of the
requirements for the award of degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

**Submitted by
BHARATHIRAJA C**

(Reg. No: 20PAM1053)

Under the guidance of

Mr.N.RADHAKRISHNAN, M.Sc., M.Phil.,



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This is to certify that the project work entitled "Isolation, Identification And Antibigram Of *Salmonella* Species From Selected Areas In Siruvachur, Attur taluk, Salem district" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **Master of Science in Applied Microbiology** is a bonafide record of original and independent project work done by **BHARATHIRAJA C (Reg. No: 20PAM1053)** under my supervision and guidance of me and the project has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or similar title to any candidate of any University.

Signature of the Supervisor

N. RADHAKRISHNAN, M.Sc., M.Phil.,
Assistant Professor

Department of Microbiology

Place: Rasipuram
Muthayammal College of Arts and Science

Rasipuram-637 408, Tamil Nadu, India.

Date : 04/06/2022

Signature of Head of the Department

D. M. SELVAN, M.Sc., M.Phil., Ph.D.,

Assistant Professor and Head

Department of Microbiology

Muthayammal College of Arts & Science

Rasipuram-637 408, Namakkal (Dt.)

Tamilnadu.

EXAMINER

1. A. P. Lakshmi
6/6/22

2. S. S. Sankar
6/6/22

Declaration

**ANTIBACTERIAL ACTIVITY, PHYTOCHEMICAL ANALYSIS OF
MEDICINAL PLANT *Tribulus terrestris* AGAINST DIABETIC
WOUND PATHOGENS.**

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

DINESH S

(Reg.No: 20PAM1054)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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Dr.M.SANKARESWARAN
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India



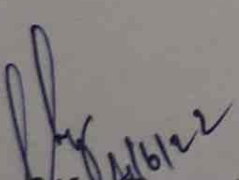
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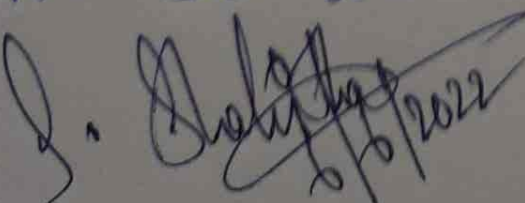
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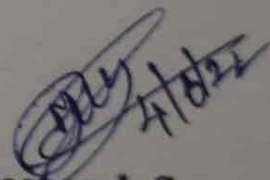
This is to certify that the dissertation entitled "**ANTIBACTERIAL ACTIVITY, PHYTOCHEMICAL ANALYSIS OF MEDICINAL PLANT *Tribulus terrestris* AGAINST DIABETIC WOUND PATHOGENS**" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **DINESH S (Reg. No : 20PAM1054)** during the period of his study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


Head of the Department

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.

Examiners:

1. 
A.P. Venkatesh
6/6/22
2. 
G. Sankar
6/6/2022


Research Supervisor

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

Declaration

**ISOLATION AND IDENTIFICATION OF SALMONELLA SPECIES
FROM CHICKEN**

*Project Submitted to Periyar University, Salem in partial fulfillment of the
requirements for the award of degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

Submitted by

GANGADHARAN A

(Reg. No: 20PAM1055)

Under the guidance of

Dr. S. Anbalagan, M.Sc., M.Phil., Ph.D.,



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Signature of the Supervisor

Signature of Head of Department

Place: Rasipuram

Date: 04/06/2022

EXAMINER

Declaration

**ISOLATION AND MOLECULAR IDENTIFICATION OF
PHOTOSYNTHETIC BACTERIA FROM CAUVERY RIVER WATER
AND ITS SEDIMENTS**

*Project Report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

JEYAPRAKASH S R

(Reg. No: 20PAM1056)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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Tamil Nadu, India.

JUNE – 2022

Dr.M.SANKARESWARAN
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

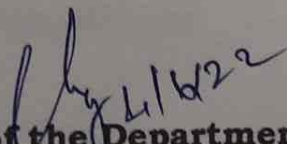



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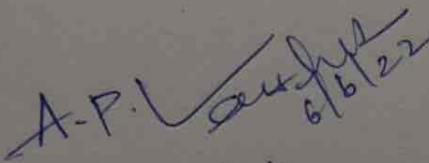
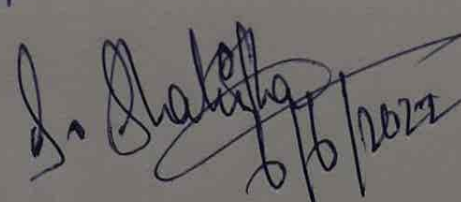
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Head of the Department
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.
Examiners:


Research Supervisor

Dr.M.SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

1. 
A.P. Lakshmi
6/6/22
2. 
Dr. Shakun
6/6/2022

Antibacterial Activity and Synergistic Antibacterial Potential of green synthesized Silver Nanoparticles against the wound pathogens

Dissertation submitted to Periyar University in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

RAKESH. V

(Reg. No: 20PAM1057)

Under the Guidance of

Dr. M. MAGHIMAA, M.Sc., M.Phil., Ph.D.,



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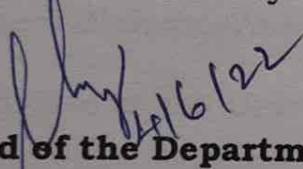
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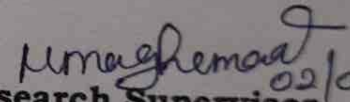
June – 2022

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This is to certify that the dissertation entitled 'Antibacterial Activity and Synergistic Antibacterial Potential of green synthesized Silver Nanoparticles against the wound pathogens' submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **RAKESH. V (Reg. No : 20PAM1057)** during the period of his study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision/guidance and that this dissertation has not formed the basis for the award of Degree/Diploma/Associates ship/Fellowship or similar title to any candidate of any University.

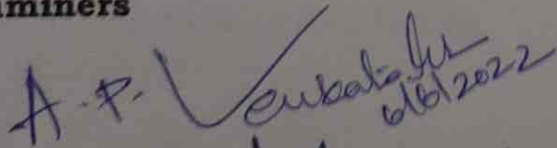
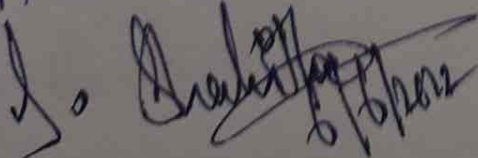

02/06/2022

Head of the Department
Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408, Namakkal (Dt.)
Tamilnadu.


02/06/2022
Research Supervisor

Dr. M. MAGHIMAA
Principal Investigator
Science & Technology Project, TNSCST,
Assistant Professor, Department of Microbiology,
Muthayammal College of Arts & Science,
Rasipuram-637408, Namakkal (Dt.), TN, India.

Examiners

1. 
A.P. Venkatesh
02/06/2022
2. 
S. Srinivas
02/06/2022

**ISOLATION, IDENTIFICATION AND ANTIBIOGRAM OF FUNGI ISOLATED FROM
PACKAGED AND UNPACKAGED MILK POWDER, CORN FLOUR AND
SOYBEAN FLOUR**

*Project report Submitted to Periyar University, Salem in partial fulfillment of the
requirements for the award of degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

Submitted by

SHANKAR S

(Reg. No: 20PAM1058)

Under the Guidance of

Mr. N.RADHAKRISHNAN, M.Sc., M.Phil.,



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JUNE – 2022



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CERTIFICATE

This is to certify that the project work entitled **“Isolation, Identification And Antibigram Of Fungi Isolated From Packaged And Unpackaged Milk Powder, Corn Flour And Soybean Flour”** submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a bonafide record of original and independent project work done by **SHANKAR S (20PAM1058)** under my supervision and guidance of me and the project has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or similar title to any candidate of any University.

Signature of the Supervisor

N. RADHAKRISHNAN, M.Sc., M.Phil.,
Assistant Professor

Department of Microbiology
Muthayammal College of Arts and Science
Rasipuram-637 408, Tamil Nadu, India

Place: Rasipuram

Date: 06.06.2022

Signature of Head of the Department

DR. M. SRIYANTH, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408, Namakkal (Dt.)
Tamilnadu.

EXAMINER

1. 6/6/22
2. 6/6/22

Declaration

**ISOLATION OF DIFFERENT BACTERIA FROM CHICKEN FAECES IN
NAMAKKAL REGION AND THEIR ANTIMICROBIAL ACTIVITY**

*Project report submitted to Periyar University in Partial Fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

Submitted By

SIVARAJA S

(Reg. No: 20PAM1059)

Under the Guidance of

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,

Head of the Department



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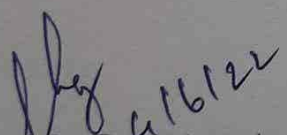
JUNE - 2022

Dr.M.SELVAN

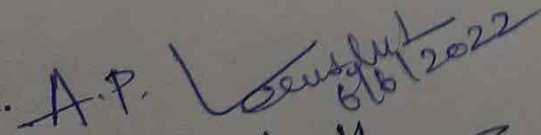
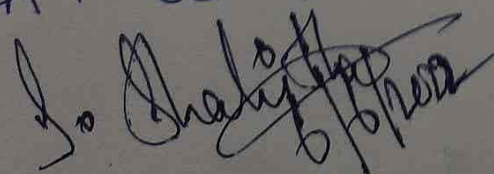
**Head, Department of Microbiology,
Muthayammal College of Arts & Science,
Rasipuram- 637408. Namakkal-Dt
Tamilnadu, India.**

CERTIFICATE

This is to certify that the project work entitled "ISOLATION OF DIFFERENT BACTERIA FROM CHICKEN FAECES IN NAMAKKAL REGION AND THEIR ANTIMICROBIAL ACTIVITY" Submitted to the Periyar University, Salem in partial fulfillment of requirements for award of the degree **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY**, is a record original work done by **Mr.SIVARAJA S (Reg.No:20PAM1059)** during the period of his study(2021-2022) in Department of Microbiology, Muthayammal college of Arts & Science, Rasipuram under the supervision and guidance that this dissertation has not formed any degree/ diploma/ associate ship/ fellowship or other similar title to any candidate of any university.


Head of the Department
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.),
Tamilnadu.
Examiners.


Research Supervisor
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.

1. 
A.P. Venkatesh
6/6/2022
2. 
S. Shalini
6/6/2022

**STUDYING TOXICITY OF KEROSENE ON THE GROWTH OF NITRIFYING
BACTERIA ISOLATED FROM SOIL**

*Project Submitted to Periyar University, Salem in partial fulfillment of the
requirements for the award of degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

Submitted by
TAMILSELVAN V

(Reg. No: 20PAM1060)

Under the Guidance of

Mr. N.RADHAKRISHNAN, M.Sc., M.Phil.,



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Rasipuram - 637 408, Namakkal (DT).

Tamil Nadu, India.

JUNE - 2022



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CERTIFICATE

This is to certify that the project work entitled “Studying toxicity of kerosene on the growth of nitrifying bacteria isolated from soil” submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **Master of Science in Applied Microbiology** is a bonafide record of original and independent project work done by **TAMILSELVAN V (Reg. No: 20PAM1060)** under my supervision and guidance of me and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

Signature of the Supervisor

N. RADHAKRISHNAN, M.Sc., M.Phil.,
Assistant Professor
Department of Microbiology
Muthayammal College of Arts and Science
Rasipuram-637 408. Tamil Nadu, India.

Place: Rasipuram

Date : 06.06.2022

Signature of Head of the Department

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.

EXAMINER

1. 6/6/2022
2. 6/6/2022

ENUMERRATION OF ACTINOBACTERIA EMBEDDED WITH
SILVER NANOPARTICLES AGAINST DIABETIC WOUND
PATHOGENS

*Project report submitted to Periyar University in partial fulfilment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

VIGNESHWARAN G

(Reg. No: 20PAM1061)

Under the Guidance of

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D., FIAAM.,



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Tamil Nadu, India.

JUNE – 2022

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D., FIAAM
Assistant professor

Department of Microbiology

Muthayammal College of Arts & Science

Rasipuram - 637 408. Namakkal DT

Tamil Nadu, India



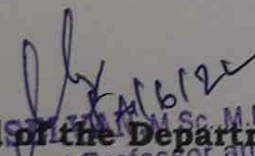
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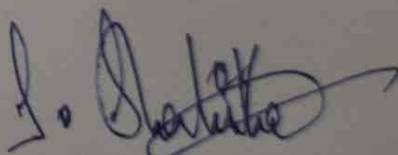
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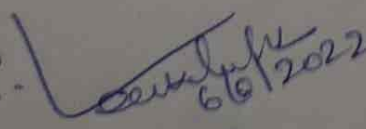
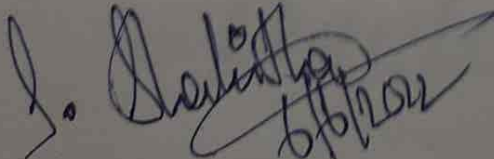
CERTIFICATE

This is to certify that the dissertation entitled "ENUMERRATION OF ACTINOBACTERIA EMBEDDED WITH SILVER NANOPARTICLES AGAINST DIABETIC WOUND PATHOGENS" submitted to Periyar University in partial fulfilment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by VIGNESHWARANG (20PAM1061) during the period of his study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


Head of the Department
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

Examiners:

1. A.P. 
6/6/2022
2. 
6/6/2022

**Green Synthesis of Silver Nanoparticles and its Antibacterial potential
against the wound Pathogens**

*Dissertation submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

S. VIJAYAVALLARASU

(Reg. No: 20PAM1062)

Under the Guidance of

Dr. M. MAGHIMAA, M.Sc., M.Phil., Ph.D.,



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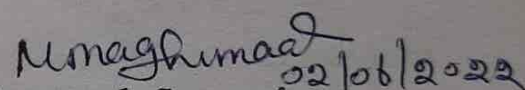
June – 2022

CERTIFICATE

This is to certify that the dissertation entitled 'Green synthesis of silver nanoparticles and its antibacterial potential against the wound pathogens' submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **S. VIJAYAVALLARASU (Reg. No : 20PAM1062)** during the period of his study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision/guidance and that this dissertation has not formed the basis for the award of Degree/Diploma/Associateship/Fellowship or similar title to any candidate of any University.


Head of the Department

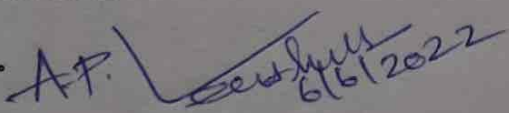
Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

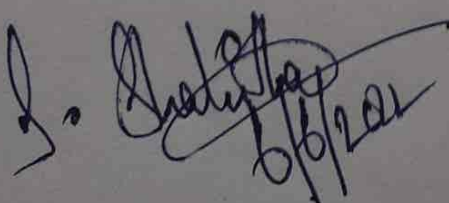
Dr. M. MAGHIMAA
Principal Investigator
Science & Technology Project, TNSCST,
Assistant Professor, Department of Microbiology,
Muthayammal College of Arts & Science,
Rasipuram-637408. Namakkal (Dt.), TN. India.

Examiners

1.


6/6/2022

2.


6/6/2022

**Isolation, Optimization and production of bacterial Pigment
from *Serratia marcescens* and their application in fabric**

*Project Report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

ANNAPOORANI I

(Reg. No: 20PAM1063)

Under the Guidance of

Dr. S. ANBALAGAN, M.Sc., M.Phil., Ph.D., FABMS, FIAAM.,



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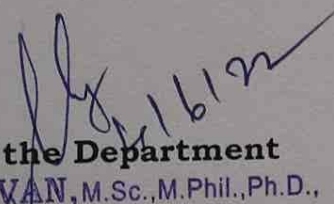
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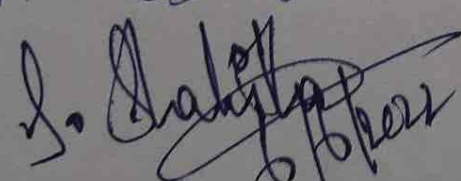
JUNE – 2022

CERTIFICATE

This is to certify that the dissertation entitled "**Isolation, Optimization and production of bacterial Pigment from *Serratia marcescens* and their application in fabric**" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **ANNAPOORANI I (Reg. No : 20PAM1063)** during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


Head of the Department
Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


4/6/22
Research Supervisor

1. 
6/6/2022
2. 
6/6/2022

**Exploitation of Eco-friendly Agro Wastes as Substrates for Cellulase
Production using *Bacillus sp.***

*Dissertation submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

ELAKKIYA. N

(Reg. No: 20PAM1064)

Under the Guidance of

Dr. M. MAGHIMAA, M.Sc., M.Phil., Ph.D.,



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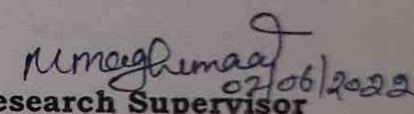
June – 2022

CERTIFICATE

This is to certify that the dissertation entitled 'Exploitation of eco-friendly Agro Wastes as Substrates for Cellulase Production using *Bacillus sp.*' submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **ELAKKIYA. N** (Reg. No: 20PAM1064) during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision/guidance and that this dissertation has not formed the basis for the award of Degree/Diploma/Associateship/Fellowship or similar title to any candidate of any University.


Head of the Department


Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

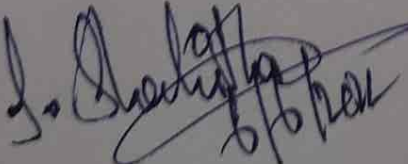
Dr. M. MAGHIMAA
Principal Investigator
Science & Technology Project, TNSCST,
Assistant Professor, Department of Microbiology,
Muthayammal College of Arts & Science,
Rasipuram-637408. Namakkal (Dt.), TN. India.

Examiners

1.


6/6/2022

2.


6/6/2022

**ANTIBACTERIAL ACTIVITY AND PHYTOCHEMICAL STUDIES
OF *Aloe vera* AGAINST NOSOCOMIAL PATHOGENS**

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

ELAKKIYA S A

(Reg. No: 20PAM1065)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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Tamil Nadu, India.

JUNE – 2022

Dr.M.SANKARESWARAN
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

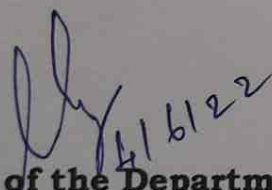


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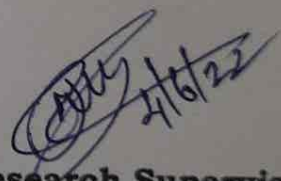
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CERTIFICATE

This is to certify that the dissertation entitled "**ANTIBACTERIAL ACTIVITY AND PHYTOCHEMICAL ANALYSIS Aloe vera AGAINST NOSOCOMIAL PATHOGENS**" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **ELAKKIYA S (Reg. No : 20PAM1065)** during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


4/6/22

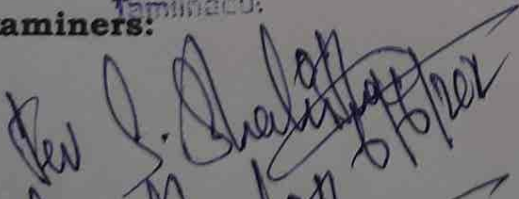
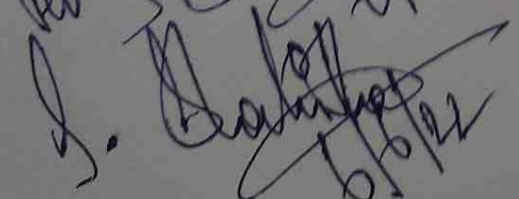
Head of the Department
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


4/6/22

Research Supervisor

Dr.M.SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

Examiners:

1. 
6/6/22
2. 
6/6/22

**ISOLATION AND IDENTIFICATION OF KERATIN (FEATHER)
DEGRADNG BACTERIA FROM POULTRY SOIL**

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

JANANI SRI. M

(Reg. No: 20PAM1066)

Under the Guidance of

Mrs.N.SATHYABAMA M.Sc.,M.Phil.,



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Tamil Nadu, India.

JUNE – 2022

Mrs.N.SATHAYABAMA
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

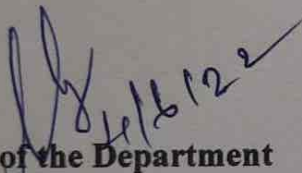


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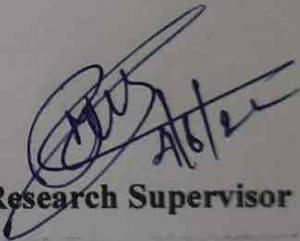
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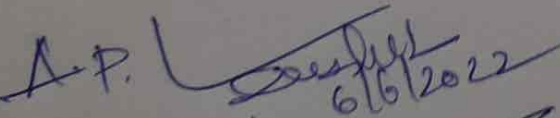
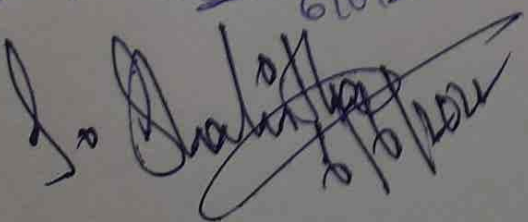
This is to certify that the dissertation entitled “ISOLATION, IDENTIFICATION OF KERATIN (FEATHER) DEGRADING BACTERIA FROM POULTRY SOIL” submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN APPLIED MICROBIOLOGY is a record of original research work done by JANANI SRIM (Reg. No : 20PAM1066) during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


Head of the Department

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

Dr. M. SANKAR SWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

1. 
6/6/2022
2. 
6/6/2022

**PHYSICO CHEMICAL AND BACTERIOLOGICAL ANALYSIS OF
DIFFERENT GROUND WATER IN NAMAKKAL DISTRICT**

*Project report submitted to Periyar University in partial fulfilment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

Submitted By

S.MADHUMITHRA

Register No: 20PAM1067

Guided By

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,

Head, Department of Microbiology



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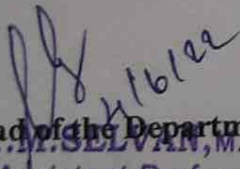
JUNE - 2022

Dr.M.SELVAN

**Head, Department of Microbiology,
Muthayammal College of Arts & Science,
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Tamilnadu, India.**

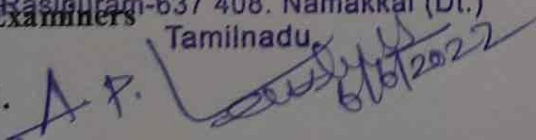
CERTIFICATE

This is to certify that the project work entitled **“PHYSICO CHEMICAL AND BACTERIOLOGICAL ANALYSIS OF DIFFERENT GROUND WATER IN NAMAKKAL DISTRICT”** Submitted to the Periyar University, Salem in partial fulfillment of requirements for award of the degree **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY**, is a record original work done by Miss **S. MADHUMITHRA (Reg.No: 20PAM1067)** during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under the supervision and guidance that the dissertation has not formed any degree/ diploma/ associate ship/ fellowship or other similar title to any candidate of any university.


Head of the Department
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu

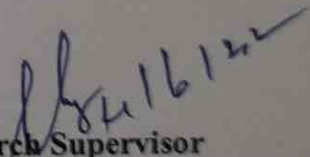
Examiners

1.


6/6/2022

2.


6/6/22


Research Supervisor
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.

ISOLATION AND CHARACTERIZATION OF *Lactobacillus* *sp* FROM FERMENTED COOKED-RICE WATER

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

NIVETHA S

(Reg. No: 20PAM1068)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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Tamil Nadu, India.

JUNE – 2022

Dr.M.SANKARESWARAN
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

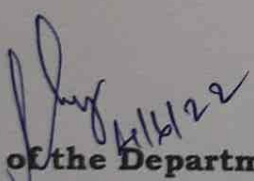


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This is to certify that the dissertation entitled "**ISOLATION AND CHARACTERIZATION OF *Lactobacillus sp* FROM FERMENTED COOKED-RICE WATER**" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **NIVETHA S (Reg. No : 20PAM1068)** during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


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Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

Dr.M.SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

1. 
A.P. Leusdy
6/6/22

2. 
S. Shalini
6/6/22

Declaration

**STUDY OF THE ANTIOXIDENT AND ANTIBACTERIAL
EFFECTS OF KOMBUCHA BEVERAGES AGAINST DIABETICS
WOUND PATHOGEN**

*Project report submitted to Periyar University in partial fulfilment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

PERARASI S

(Reg. No: 20PAM1069)

Under the Guidance of

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D., FIAAM.,



DEPARTMENT OF MICROBIOLOGY

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Tamil Nadu, India.

JUNE – 2022

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Assistant professor

Department of Microbiology

Muthayammal College of Arts & Science

Rasipuram - 637 408. Namakkal DT

Tamil Nadu, India

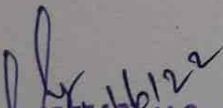


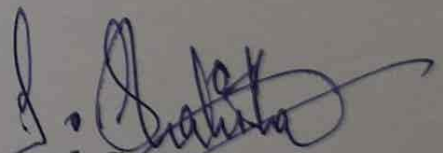
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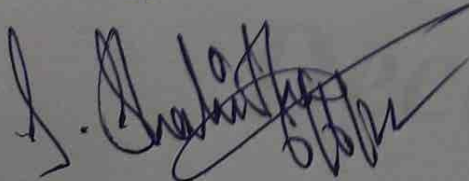
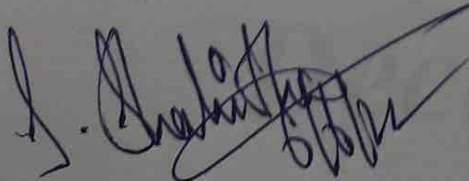
CERTIFICATE

This is to certify that the dissertation entitled "STUDY OF THE ANTIOXIDANT AND ANTIBACTERIAL EFFECTS OF KOMBUCHA BEVERAGES AGAINST DIABETICS WOUND PATHOGEN" submitted to Periyar University in partial fulfilment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by PERARASI S (Reg: No 20PAM1069) during the period of his study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Head of the Department
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.


Research Supervisor

Examiners:

1. 
A.P. 
6/6/2022
2. 

6/6/2022

**GREEN SYNTHESIS OF CALCIUM TITANATE (CaTiO₃)
NANOPARTICLES BY USING *Azadirachta indica* AGAINST
SELECTED NOSOCOMIAL PATHOGENS**

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

SIVARANJANI S

(Reg. No: 20PAM1070)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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Tamil Nadu, India.

JUNE – 2022

Dr.M.SANKARESWARAN
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

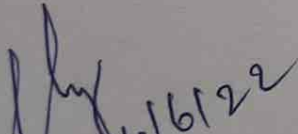


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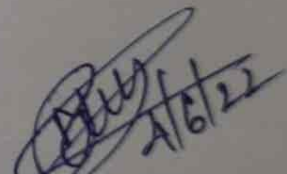
CERTIFICATE

his is to certify that the dissertation entitled "**GREEN SYNTHESIS OF CALCIUM TITANATE (CaTiO₃) NANOPARTICLES BY USING *Azadirachta indica* AGAINST SELECTED NOSOCOMIAL PATHOGENS**" submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN APPLIED MICROBIOLOGY** is a record of original research work done by **SIVARANJAINI S (Reg. No : 20PAM1070)** during the period of her study (2020-2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


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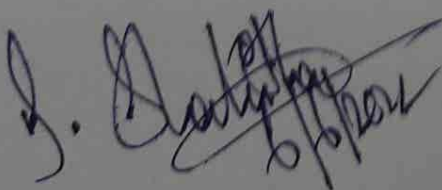
Head of the Department

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.
Examiners


4/6/22
Research Supervisor

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

1. 
6/6/22

2. 
6/6/22

Declaration

**.Phytochemical Screening and Antibacterial Activity of
Cathranthus rosues extracts Against drug Resistant
isolated UTI Pathogens**

*Project report submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

MASTER OF SCIENCE IN APPLIED MICROBIOLOGY

By

SNEHA.S

(Reg. No: 20PAM1071)

Under the Guidance of

Mrs.N.SATHYABAMA M.Sc.,M.Phil.,



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Tamil Nadu, India.

JUNE - 2022

Mrs.N.SATHYABAMA
Assistant professor
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram - 637 408. Namakkal DT
Tamil Nadu, India

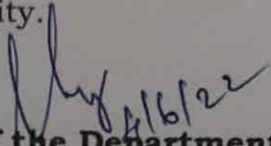


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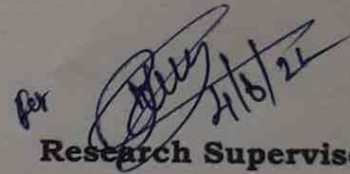
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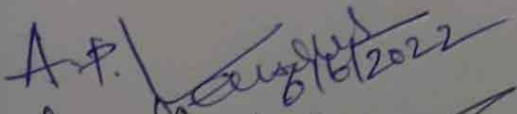
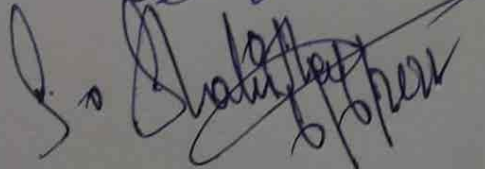

4/16/22

Head of the Department
Dr.M.SELVAN, M.Sc., M.Phil., Ph.D.,
Assistant Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal (Dt.)
Tamilnadu.

Per 
4/16/22

Research Supervisor

Dr.M.SANKARSWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

- Examiners:**
1. 
8/16/2022
 2. 
8/16/2022

Declaration

Isolation and Identification of Bacteria from expired and unexpired Pocket Milk

Mini project submitted to Periyar University in partial fulfillment of the requirement for the degree of

BACHELOR OF SCIENCE IN MICROBIOLOGY

By

DHIVEHA A (Reg.No: 19UMB1180)

GAYATHRI P (Reg.No: 19UMB1184)

KOKILA K (Reg.No: 19UMB1195)

MEIYAANANTHAN M S (Reg.No: 19UMB1197)

PARAMESHWARAN S (Reg.No: 19UMB1203)

PRADHEEP S I (Reg.No: 19UMB1206)

PRIYA S (19UMB1208)

Under the Guidance of

Dr. M. SELVAN, M.Sc., M.Phil., Ph.D.,



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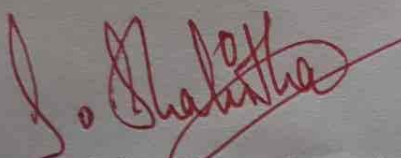
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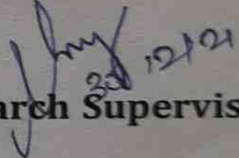
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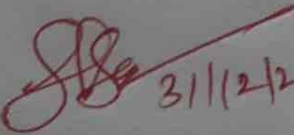
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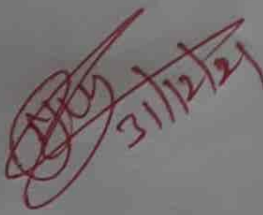
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Head of the Department
Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D.,
Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal-Dt.


Research Supervisor

Examiners:

1.  31/12/21

2.  31/12/21

**Antimicrobial Susceptibility of *Pseudomonas aeruginosa* and
Staphylococcus aureus from Hospital Environment**

*Mini project submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

BACHELOR OF SCIENCE IN MICROBIOLOGY

By

RETHEEKHAA G S (19UMB1210)

DEEPIKA V (19UMB1177)

ELAIYARAJA S (19UMB1183)

GAYATHRI V (19UMB1185)

KARTHIKA DEVI K (19UMB1189)

KOWSALYA S (19UMB1196)

RAGHUL V (19UMB1209)

KARTHIKA R (19UMB1190)

Under the Guidance of

Dr. S. ANBALAGAN, M.Sc., M.Phil., Ph.D., FABMS, FIAAM.,



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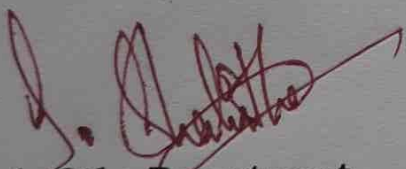
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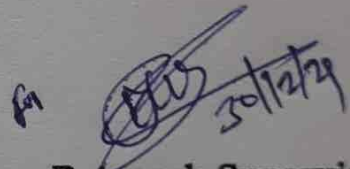
Tamil Nadu, India.

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Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408, Namakkal-Dt.


Research Supervisor

Examiners:

1.  3/1/24

2.  3/1/24

**ANTIMICROBIAL ACTIVITY AND PHYTOCHEMICAL ANALYSIS
AND SYNTHESIS OF SILVER NANO PARTICALS EMBADED WITH
curcuma longa, *Trachyspermum ammi* AGAINST DIEBETIC MELITUS
DISORDER PATIENT**

*Mini project submitted to Periyar University in partial fulfilment of the
requirement for the degree of*

BACHELOR OF SCIENCE IN MICROBIOLOGY

By

ASHMA S (Reg.No:19UMB1175)

DEVAGI SHREE R M (Reg.No:19UMB1178)

KALAISELVAN K (Reg.No:19UMB1187)

MURUGESAN T(Reg.No:19UMB1199)

NANDHINI S (Reg.No:19UMB1201)

PAVITHRA V (Reg.No:19UMB1204)

PRIYA G (Reg.No:19UMB1207)

ASHIKA RUFUYA A (Reg.No:19UMB1219)

Under by Guidance of

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D., FIAAM.,



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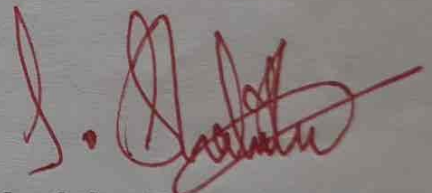
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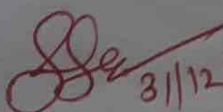


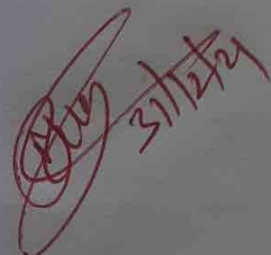
Research Supervisor



Head of the Department
Dr.S.SHAHITHA, M.Sc., M. Phil., Ph.D.,
Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal-Dt.

Examiners:

1.  31/12/21

2.  31/12/21

ANTIMICROBIAL ACTIVITY OF LEMON GRASS AGAINST SPOILAGE CAUSING BACTERIA IN VEGETABLES

Mini project Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of

BACHELOR OF SCIENCE IN MICROBIOLOGY

Submitted by

A. Chandru (19UMB1176), J. Diya Subhani (19UMB1181), K. Girinath (19UMB1186), D. Muthukumar (19UMB1200), R. Perumal (19UMB1205),

A. Sowmiya (19UMB1212), T.A. Thaniyal (19UMB1214),

E. Sangeetha (19UMB1217)

Under the Guidance of

Mr. N.RADHAKRISHNAN, M.Sc., M.Phil.,



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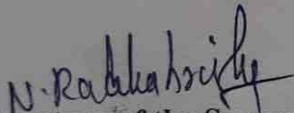
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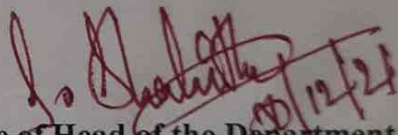
CERTIFICATE

This is to certify that the mini project work entitled “**ANTIMICROBIAL ACTIVITY OF LEMON GRASS AGAINST SPOILAGE CAUSING BACTERIA IN VEGETABLES**” submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF SCIENCE IN MICROBIOLOGY** is a bonafide record of original and independent project work done by A. Chandru (19UMB1176), J. Diya Subhani (19UMB1181), K. Girinath (19UMB1186), D. Muthukumar (19UMB1200), R. Perumal (19UMB1205), A. Sowmiya (19UMB1212), T.A. Thaniyal (19UMB1214), E. Sangeetha (19UMB1217) under my supervision and guidance of me and the mini project has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or similar title to any candidate of any University.


Signature of the Supervisor

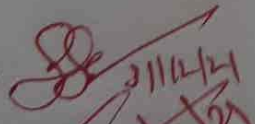
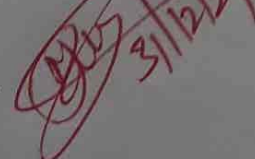
N. RADHAKRISHNAN, M.Sc., M.Phil.,
Assistant Professor
Department of Microbiology
Muthayammal College of Arts and Science
Rasipuram-637 408, Tamil Nadu, India.
Place: Rasipuram

Date : 31.12.2021


Signature of Head of the Department

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D.,
Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408, Namakkal-Dt.

EXAMINER

- 
31/12/21
- 
31/12/21

DETERMINATION OF ANTIBACTERIAL ACTIVITY FOR VARIOUS SPICES

*Mini project submitted in Periyar University in partial fulfillment of
the requirement for the degree of*

BACHELOR OF SCIENCE IN MICROBIOLOGY

Submitted by

DHANALAKSHMI S (19UMB1179)
DURGADEVI P (19UMB1182)
KANIMOZHI K (19UMB1188)
KARTHIKEYAN M (19UMB1191)
KAVIN R K (19UMB1192)
MONIKA M (19UMB1198)
SHAKTHEE PRIYAA K (19UMB1211)
SRINIVASAN V (19UMB1213)

Under the Guidance of

**Mrs. N. Sathyabama M.Sc., M.Phil.,
Department of Microbiology**



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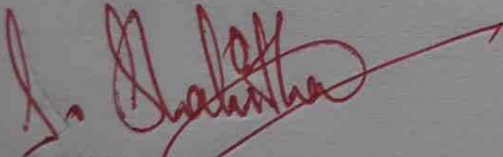
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**Accredited with „A¹ Grade by NAAC
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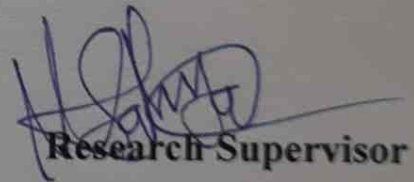
December - 2021

CERTIFICATE

This is to certify that the dissertation entitled “**DETERMINATION OF ANTIBACTERIAL ACTIVITY FOR VARIOUS SPICES**” submitted to Periyar University in partial fulfilment of the requirement for the award of the Degree of **BACHELOR OF SCIENCE IN MICROBIOLOGY** is a record of original research work done by DHANALAKSHMI S (19UMB1179), DURGADEVI P (19UMB1182), KANIMOZHI K (19UMB1188), KARTHIKEYAN M (19UMB1191), KAVIN R K (19UMB1192), MONIKA M (19UMB1198), SHAKTHEEPRIYAA K (19UMB1211), SRINIVASAN V (19UMB1213) during the period of his study (2019 - 2022) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associate ship / Fellowship or similar title to any candidate of any University.

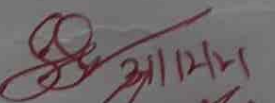
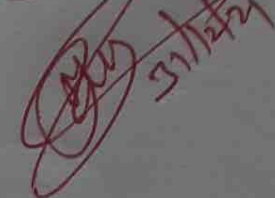


Head of the Department
Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408. Namakkal-Dt.



Research Supervisor

Examiners:

1.  21/12/21
2.  21/12/21

**Isolation and Identification of Phosphate Solubilizing Bacteria
from different crop soils of Namakkal District, Tamil Nadu**

*Mini project submitted to Periyar University in partial fulfillment of the
requirement for the degree of*

BACHELOR OF SCIENCE IN MICROBIOLOGY

By

THENMOZHI M (Reg.No:19UMB1215)

KAVIYA M (Reg.No:19UMB1193)

KIRUTHIGA C (Reg.No:19UMB1194)

NIJA A (Reg.No:19UMB1202)

VIGNESH P (Reg.No:19UMB1216)

MONISH V (Reg.No:19UMB1220)

KIRUTHIGA K (Reg.No:19UMB1221)

Under the Guidance of

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.,



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UGC Recognised 2 (f) & 12(B) Status

Rasipuram - 637 408, Namakkal DT

Tamil Nadu, India.

DECEMBER- 2021

CERTIFICATE

This is to certify that the dissertation entitled “**Isolation and identification of phosphate solubilizing bacteria from different crop soils of Namakkal District, Tamil Nadu**” submitted to Periyar University in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF SCIENCE IN MICROBIOLOGY** is a record of original research work done by **THENMOZHI M (Reg.No:19UMB1215), KAVIYA M (Reg.No:19UMB1193), KIRUTHIGA C (Reg.No:19UMB1194), NIJA A (Reg.No:19UMB1202), VIGNESH P (Reg.No:19UMB1216), MONISH V (Reg.No:19UMB1220), KIRUTHIGA K (Reg.No:19UMB1221)** during the period of his/her study (2020-2021) in the Department of Microbiology, Muthayammal College of Arts & Science, Rasipuram under my supervision / guidance and that this dissertation has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

Head of the Department

Dr. S. SHAHITHA, M.Sc., M.Phil., Ph.D.,
Associate Professor and Head
Department of Microbiology
Muthayammal College of Arts & Science
Rasipuram-637 408, Namakkal-Dt.
Examiners:

Research Supervisor

Dr. M. SANKARESWARAN, M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Microbiology
Muthayammal College of Arts & Science
RASIPURAM-637 408, Namakkal Dt, Tamilnadu, India.

1.

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