

**SIMILARITY ANALYSIS OF ALUMINIUM
RESISTANCE PROTEINS OF SOME SELECTED
BACTERIA**

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. P. BANUPRIYA (2019MSCZ01)

GUIDED BY

Dr. A. TAMIL SELVI



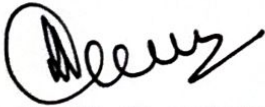
**PG DEPARTMENT OF ZOOLOGY
FATIMA COLLEGE (Autonomous)
(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

CERTIFICATE

This is to certify that this dissertation entitled “SIMILARITY ANALYSIS OF ALUMINIUM RESISTANCE PROTEINS OF SOME SELECTED BACTERIA” submitted by MISS. P. BANUPRIYA (2019MSCZ01) as a partial fulfillment for the degree of Master of Science in Zoology is based on the results of studies carried out by her under my guidance and supervision during the academic year 2020-2021 at Fatima College (Autonomous), Department of Zoology, Madurai-18. This project work has not been submitted elsewhere for any other degree.



Head of the Department

(Dr. A. Tamil Selvi)



Signature of the Guide

(Dr. A. Tamil Selvi)

Dr. A. TAMIL SELVI
Head, Dept. of Zoology
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MADURAI-625 018

STATION: MADURAI

DATE: 15.04.2021

DECLARATION

I do hereby declare that this dissertation entitled "**SIMILARITY ANALYSIS OF ALUMINIUM RESISTANCE PROTEINS OF SOME SELECTED BACTERIA**" has been originally carried out by her under the guidance and supervision of **Dr. A. Tamil Selvi**, Head & Assistant Professor, Department of Zoology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for the award of any other degree.

STATION: MADURAI

DATE: 15.04.2021

P. Banupriya.
Signature of the Student

P. BANUPRIYA

(2019MSCZ01)

PREPARATION OF VERMICAST USING GUAVA LEAF AND EGG SHELL

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. V. BIRUNTHA (2019MSCZ02)

GUIDED BY

Capt. Dr. ANTONY AMALA JAYASEELI




**PG DEPARTMENT OF ZOOLOGY
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(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

CERTIFICATE

This is to certify that the Thesis entitled “ **Preparation of vermicast using guava leaves and egg shells**” submitted by **Ms. V. Biruntha (2019MScZ02)** for the award of **2019- 2021** in Biology, is her bonafide and original work and that it has been carried out under my research supervision and guidance. The thesis does not constitute any part that has been submitted for the award of any Degree, Diploma, Fellowship and Associateship of this or any other university.



Head of the Department
(Dr. A. Tamil Selvi)



Research guide
(Dr. Antony Amala Jayaseeli)

Dr. A. TAMIL SELVI

Head, Dept. of Zoology

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-625 018

Date: 15.04.2021

Place: Madurai

DECLARATION

I do hereby declare that this dissertation entitled "**PREPARATION OF VERMICOMPOST USING EGG SHELLS AND GUAVA LEAVES**" Submitted to Fatima college, Madurai in Partial fulfillment of requirement of the award of **MASTER OF SCIENCE IN ZOOLOGY**, is a record of original project work done by me. I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

Place: Madurai

Date: 22.4.2021.



Signature of the candidate

(V.BIRUNTHA)

“STUDY OF INHERITANCE OF DIABETES MELLITUS AND TWO MENDELIAN TRAITS IN MY FAMILY USING PEDIGREE ANALYSIS”

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. M. Gokila (2019MSCZ03)

GUIDED BY

Dr. N. MALATHI, M.Sc., Ph.D., GATE, DAT, MD (Acu.)



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FATIMA COLLEGE (AUTONOMOUS)

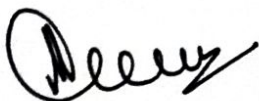
(College with potential for excellence)

MADURAI – 625 018

APRIL 2019

CERTIFICATE

This is to certify that this dissertation entitled “STUDY OF INHERITANCE OF DIABETES MELLITUS AND TWO MENDELIAN TRAITS IN MY FAMILY USING PEDIGREE ANALYSIS” submitted by MISS. M. Gokila (2019MSCZ03) as a partial fulfillment for the degree of **Master of Science in Zoology** is based on the results of studies carried out by her under my guidance and supervision during the academic year 2018-2019 in Fatima College (Autonomous), Department of Zoology, Madurai-18. This project work has not been submitted elsewhere for any other degree.



Signature of the Head of
the Department
(Dr. A. Tamil Selvi)

Dr. A. TAMIL SELVI
Head, Dept. of Zoology
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MADURAI-625 018



Signature of the Supervisor
and Guide
(Dr. Mrs. N. Malathi)

STATION: MADURAI

DATE: 15.04.2021

DECLARATION

I do hereby declare that this dissertation entitled “**STUDY OF INHERITANCE OF DIABETES MELLITUS AND TWO MENDELIAN TRAITS IN MY FAMILY USING PEDIGREE ANALYSIS**” has been originally carried out by her under the guidance and supervision of **Dr. Mrs. N. Malathi**, Assistant Professor, Department of zoology and Dean of Academic Affairs (Science), Research Guide and Supervisor, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for the award of any other degree.

STATION: MADURAI


Signature of the Student

DATE: 15.04.2021

M. Gokila
(2019MSCZ03)

**INSILICO DOCKING OF MEDICINAL PLANTS
BIO-ACTIVE COMPOUNDS AGAINST mTOR AS AN
ANTI – BREAST CANCER**

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. G. KRISHNAVENI (2019MSCZ04)

GUIDED BY

MISS. T. MALAR MEENAKSHI



**PG DEPARTMENT OF ZOOLOGY
FATIMA COLLEGE (Autonomous)
(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

CERTIFICATE

This is to certify that the dissertation entitled “**IN SILICO MOLECULAR DOCKING OF PHYTOCHEMICAL BIO-ACTIVE COMPOUNDS AGAINST mTOR TARGET IN BREAST CANCER**” submitted in partial fulfillment of Degree of Master of Science in Zoology is a research work that has been originally carried out by **Ms.G. KRISHNAVENI (2019MSCZ04)** under my guidance and supervision in the Department of Zoology, Fatima College (Autonomous), Madurai- 18 in the academic year 2020-2021. It is further certified that this dissertation or any part of this has not been submitted elsewhere for the award of any other degree.

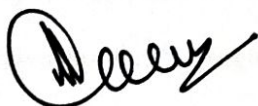
Station: Madurai

Date : 15.04.2021



Signature of the Project Guide

(Ms. T. MALAR MEENAKSHI)



HEAD OF THE DEPARTMENT

(Dr. A. TAMIL SELVI)

Dr. A. TAMIL SELVI
Head, Dept. of Zoology
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MADURAI-625 018

DECLARATION

I hereby declare that this dissertation entitled “**IN SILICO MOLECULAR DOCKING OF PHYTOCHEMICAL BIO-ACTIVE COMPOUNDS AGAINST mTOR TARGET IN BREAST CANCER**” submitted in partial fulfillment of Degree of Master of Science in Zoology is a research work that has been originally done by me under the guidance and supervision of **Ms. T. Malar Meenakshi, Assistant Professor, Fatima College (Autonomous), Madurai** and this work has not been submitted elsewhere for the award of any other degree.

Station: Madurai

Date: 20.04.2021

Gr. Krishnaveni

Signature of student

**A STUDY ON INSECT DIVERSITY AT
METTUPERUMALNAGAR IN VADIPATTI, MADURAI**

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. J. MEENAPRIYA (2019MSCZ05)

GUIDED BY

Dr. V. BHARATHY



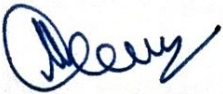
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FATIMA COLLEGE (Autonomous)
(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

CERTIFICATE

This is to certify that this dissertation entitled "A STUDY ON INSECT DIVERSITY AT METTUPERUMALNAGAR IN VADIPAATI, MADURAI" submitted by J. MEENAPRIYA (2019MSCZ05) as a partial fulfillment for the degree of **Master of Science in Zoology** is based on the results of studies carried out by her under my guidance and supervision during the academic year 2020-2021 in Fatima College (Autonomous), Department of Zoology, Madurai-18. This project work has not been submitted elsewhere for any other degree.



Signature of the
Head of the Department

(Dr. A. Tamilselvi)

Dr. A. TAMIL SELVI

Head, Dept. of Zoology

FATIMA COLLEGE (AUTONOMOUS)

Place: Madurai MADURAI-625 018

Date: 15/4/21



Signature of the guide
Dr. V. Bharathy

DECLARATION

I do hereby declare that this dissertation entitled “ A STUDY ON INECT DIVERSITY AT METTUPERUMALNAGAR IN VADIPATTI,MADURAI” Submitted to Fatima college, Madurai in Partial fulfillment of requirement of the award of MASTER OF SCIENCE IN ZOOLOGY, is a record of original project work done by me. I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

Place: Madurai

Date: 15-04-2021

J. Meenapriya

Signature of the candidate

(J.MEENAPRIYA)

AN INVESTIGATION ON SPIDER FAUNA AT FATIMA COLLEGE CAMPUS

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. K. NIVETHA (2019MSCZ07)

GUIDED BY

Mrs. J. THELMA



**PG DEPARTMENT OF ZOOLOGY
FATIMA COLLEGE (Autonomous)
(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

CERTIFICATE

This is to certify that this dissertation entitled "AN INVESTIGATION ON SPIDER FAUNA AT FATIMA COLLEGE CAMPUS" submitted by MISS. K.NIVETHA (2019MSCZ07) as a partial fulfillment for the degree of **Master of Science in Zoology** is based on the results of studies carried out by her under my guidance and supervision during the academic year 2020-2021 in Fatima College (Autonomous), Department of Zoology, Madurai-18. This project work has not been submitted elsewhere for any other degree.



Signature of the

Head of the Department

(DR.A. TAMILSELVI)

Dr. A. TAMIL SELVI

Head, Dept. of Zoology

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-625 018

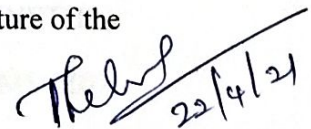
STATION: MADURAI

DATE: 22.04.2021

Signature of the

guide

(Mrs. J. THELMA)



ACKNOWLEDGEMENT

DECLARATION

I do hereby declare that this dissertation entitled “AN INVESTIGATION ON SPIDER FAUNA AT FATIMA COLLEGE CAMPUS” Submitted to Fatima college, Madurai in Partial fulfillment of requirement of the award of **MASTER OF SCIENCE IN ZOOLOGY**, is a record of original project work done by me. I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

STATION: MADURAI

DATE: 22.4.2021

K. Nivetha

Signature of the Student

(K. NIVETHA)

(2019MSCZ07)

DEVELOPMENT AND CHARACTERIZATION OF ORGANIC STAINING DYE

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. S. PANDI MAHESWARI (2019MSCZ08)

GUIDED BY

Dr. N. NAGARANI



**PG DEPARTMENT OF ZOOLOGY
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(College with Potential for Excellence)**

MADURAI – 625 018

APRIL, 2021

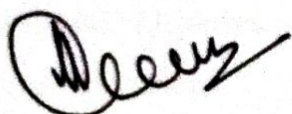
Dr.N.Nagarani
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CERTIFICATE

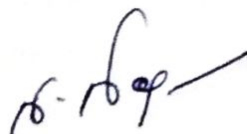
This is to certify that the dissertation entitled **DEVELOPMENT AND CHARACTERIZATION OF ORGANIC STAINING DYE** is a research work that has been originally carried out by **S.PANDI MAHESWARI (2019MSCZ08)** under my guidance and supervision in the Department of Zoology, Fatima College (Autonomous), Madurai- 18 in the academic year 2020-2021. It is further certified that this dissertation or any part of this has not been submitted elsewhere for the award of any other degree.

Date: 15.04.2021

Place: Madurai



Signature of the HOD



Signature of the Project Guide

Dr. A. TAMIL SELVI
Head, Dept. of Zoology
FATIMA COLLEGE (AUTONOMOUS)
MADURAI-625 018

DECLARATION

I hereby declare that this dissertation entitled "**DEVELOPMENT AND CHARACTERIZATION OF ORGANIC STAINING DYE**" Submitted to Fatima college, Madurai in Partial fulfillment of requirement of the award of **MASTER OF SCIENCE IN ZOOLOGY** is a research work that has been originally done by me under the guidance and supervision of Dr. N. Nagarani, Assistant Professor, Department of Zoology, Fatima College (Autonomous), Madurai and I also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

Place: Madurai

Date: 20.04.2021

S. Pandi Maheswari.
Signature of the Student

(S.PANDI MAHESWARI)

**BIODEGRADATION OF *AZADIRACHTA INDICA* AND
ALBIZIALEBBECK LEAF LITTER THROUGH
VERMICOMPOSTING USING *EISENIA FETIDA* AND
*EUDRILUS EUGENIA***

**Project Submitted for the Award of Degree of
Master of Science in Zoology**

Submitted By

Miss. X. SELVA DEEPA (2019MSCZ09)

GUIDED BY

Dr. S. BARATHY



**PG DEPARTMENT OF ZOOLOGY
FATIMA COLLEGE (Autonomous)
(College with Potential for Excellence)**

MADURAI – 625 018

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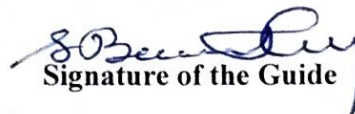
CERTIFICATE

This is to certify that this dissertation entitled "**Biodegradation of *Azadirachta indica* and *Albizia lebbeck* leaf litter through vermicomposting using *Eisenia fetida* and *Eudrilus eugenia***" submitted by **X. SELVA DEEPA (2019MSCZ09)** as a partial fulfillment for the degree of **Master of Science in Zoology** is based on the result of studies carried out by her under my guidance and supervision during the academic year 2020-2021 in Fatima College (Autonomous), Department of Zoology, Madurai-18. This project work has not been submitted elsewhere for any other degree.



Signature of the HOD

(Dr. A. Tamil Selvi)



Signature of the Guide

(Dr. S. Barathy)

Dr. A. TAMIL SELVI
Head, Dept. of Zoology
FATIMA COLLEGE (AUTONOMOUS)
MADURAI-625 018

DECLARATION

I do here by declare that this dissertation entitled “**Biodegradation of *Azadirachta indica* and *Albizia lebbeck* leaf litter through vermicomposting using *Eisenia fetida* and *Eudrilus eugenia***” has been originally carried out by me under the guidance and supervision of Dr. S. Barathy, Assistant Professor, Department of Zoology, Fatima College (Autonomous), Madurai- 18 and this work has not been submitted elsewhere for the award of any other degree.

Station: Madurai

Date: 15.04.2021



Signature of the Student

X. Selva Deepa