



"A COMPARATIVE STUDY OF SOME DOMINANT ENDOPHYTIC  
FLORA OBTAINED FROM THE STEMS OF *Cissus quadrangularis* AND  
*Justicia gendarussa* CULTIVATED IN THE GREEN HOUSE"

2020



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

"A COMPARATIVE STUDY OF SOME DOMINANT ENDOPHYTIC FLORA  
OBTAINED FROM THE STEMS OF *Cissus quadrangularis* AND *Justicia gendarussa*  
CULTIVATED IN THE GREEN HOUSE"

A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY,  
ASSAM, IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE  
OF MASTER OF SCIENCE IN BOTANY

BY

SUBRATA KARMAKAR, HAFIUZ ZAMAN AHMED

ROLL NO: 184141063, 184141019

UNDER THE SUPERVISION OF:

DR. BIDISHA SHARMA

(ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY RGU)

ROYAL SCHOOL OF LIFE SCIENCES

THE ASSAM ROYAL GLOBAL UNIVERSITY,

ASSAM

Forwarded  
Dmk  
26/6/24  
HOD, Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Berkuchi, NH 37, Guwahati 781035

**"A COMPARATIVE STUDY OF SOME DOMINANT ENDOPHYTIC FLORA OBTAINED FROM THE STEMS OF *Cissus quadrangularis* AND *Justicia gendarussa* CULTIVATED IN THE GREEN HOUSE"**

**2020**

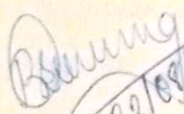


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GUWAHATI

**CERTIFICATE OF EXAMINER**

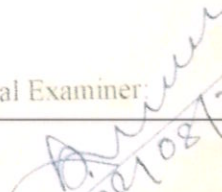
This is to certify that the dissertation entitled "A COMPARATIVE STUDY OF SOME DOMINANT ENDOPHYTIC FLORA OBTAINED FROM THE STEMS OF *Cissus quadrangularis* AND *Justicia gendarussa* CULTIVATED IN THE GREEN HOUSE" being submitted to the Department of Botany, Royal School of Life Sciences, The Assam Royal Global University, by **SUBRATA KARMAKAR, HAFIUZ ZAMAN AHMED** in partial fulfillment for the award of the degree of Master in Science in Botany, has been examined by us on..... and found to be satisfactory.

The committee recommends for the award of the degree of M.Sc in Botany.

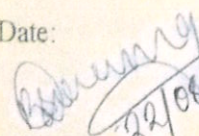
  
Supervisor: 22/09/2020

External Examiner:

Date:

  
20/08/2020

Date:

  
Coordinator: 22/08/2020

Department of Botany

The Assam Royal Global University

Date:

**PHYTOCHEMICAL AND ANTIOXIDANT OF SOME  
WILD PLANTS OF KAMRUP DISTRICT**

**A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL  
UNIVERSITY, ASSAM, IN PARTIAL FULFILLMENT OF THE REQUIREMENT  
FOR THE DEGREE OF MASTER OF SCIENCE OF BOTANY**

\*\*\*\*\*



**ROYAL GLOBAL UNIVERSITY**  
— GUWAHATI —

**BY**

**Dilowara Ahmed (Roll No. 184141014)  
Afsana Choudhury (Roll No. 184141001)  
Ommi Sabana Azmin (Roll No. 184141045)  
Jamila Ahmed (Roll No. 184141022)**

**UNDER THE SUPERVISION OF:  
Dr. MINARAM NATH  
ASSISTANT PROFESSOR  
DEPARTMENT OF BOTANY  
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THE ASSAM ROYAL GLOBAL UNIVERSITY ASSAM**

*Forwarded*

*Dr. N*  
*26/6/24*

*HOD/Coordinator  
Department of Botany  
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The Assam Royal Global University  
Betkuchi, NH 37, Guwahati 781035*



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

## CERTIFICATE OF EXAMINER

This is to certify that the dissertation entitled "*Phytochemical and Antioxidant of some wild plants of Kamrup District*", being submitted to the Department of Botany, Royal School of Life Sciences, The Assam Royal Global University, by the following students, in partial fulfilment for the award of the degree of Master in Science in Botany, has been examined by us on 21th August and found to be satisfactory.

The committee recommends for the award of the degree of M.Sc. in Botany.

Supervisor: Dr. MINARAM NATH

External Examiner

Date:

Date:

Coordinator

Department of Botany

The Assam Royal Global University

Date: 29/08/2020



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**Phytochemical Analysis & Evaluation of  
Antimicrobial activity of *Usnea sp* found in  
Golaghat, Assam**

**A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL  
UNIVERSITY, ASSAM, IN PARTIAL FULFILMENT OF THE REQUIREMENT  
FOR THE DEGREE OF MASTER OF SCIENCE IN BOTANY**

**Submitted by**

Sneha Mudoi  
Roll No- 204141022

**Supervised by**

Dr. Anushree Baruah  
Asst. Professor,  
Dept. Of Botany, RSLSC  
The Assam Royal Global University

*Forwarded*  
*Prub*  
*26/6/24*  
HOD/Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Betkuchi, NH 37, Guwahati 781035



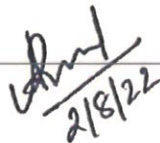
ROYAL GLOBAL UNIVERSITY  
GUWAHATI

### CERTIFICATE OF EXAMINER

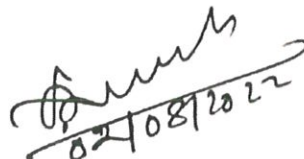
This is to certify that the dissertation entitled " Phytochemical Analysis & Evaluation of Antimicrobial activity of *Usnea sp* found in Golaghat, Assam " being submitted to the Dept. Of Botany, Royal School of Life sciences, The Assam Royal Global University, by SNEHA MUDOI, in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by me on... .. 02/08/22 ... .. and found to be satisfactory.

The Committee recommends for the award of the degree of M. Sc. in Botany.

Signature of Supervisor with date:

  
2/8/22

Signature of External Examiner with date:

  
02/08/2022

Signature of Coordinator/HOD with date:

  
2/8/22



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**MICROBIAL DIVERSITY OF OIL  
CONTAMINATED SOIL OF AUTOMOBILE  
GARAGE OF NORTH GUWAHATI**

**A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY,  
ASSAM, IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE  
OF MASTER OF SCIENCE IN BOTANY**

**Submitted by**

Munzurul Islam Bhuyan

Roll No- 204141011

Shamim Jahanara Parbin

Roll No- 204141019

**Supervised by**

Dr. Anushree Baruah

Asst. Professor,

Dept. Of Botany, RSLSC

The Assam Royal Global University

*Forwarded*  
*shk*  
HO, Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Betkuchi, NH 37, Guwahati 781035





ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**CERTIFICATE OF EXAMINER**

This is to certify that the dissertation entitled " **Microbial diversity of oil contaminated soil of automobile garages of north Guwahati**" being submitted to the Dept. Of Botany, Royal School of Life sciences, The Assam Royal Global University, by MR MUNZURUL ISLAM BHUYAN and Ms SHAMIM JAHANARA PARBIN, in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by me on... .. 2/8/22 .. . . . . . and found to be satisfactory.

The Committee recommends for the award of the degree of M. Sc. in Botany.

Signature of Supervisor with date:

Signature of External Examiner with date:

  
02/08/22

Signature of Coordinator/HOD with date:



**EFFECT OF VERMICOMPOST ON GROWTH AND  
SEED GERMINATION OF MAIZE PLANT (*Zea mays*)**

**A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL  
UNIVERSITY, ASSAM, IN PARTIAL FULFILMENT OF THE REQUIREMENT  
FOR THE DEGREE OF MASTER OF SCIENCE IN BOTANY**

**Submitted by**

Gurumayum Dolpriya Devi

Roll No- 204141006

Pauline Ch. Momin

Roll No- 204141013

Shamurailatpam Durjaya

Roll No- 204141020

**Supervised by**

Dr. Anushree Baruah

Asst. Professor,

Dept. Of Botany, RSLSC

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*Drh.*

*26.6.24*

HOD/Coordinator  
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Betkuchi, NH 37, Guwahati 7810




ROYAL GLOBAL UNIVERSITY  
GUWAHATI

CERTIFICATE OF EXAMINER


This is to certify that the dissertation entitled " Effect of vermicompost on growth of maize and seed germination" being submitted to the Dept. Of Botany, Royal School of Life sciences, The Assam Royal Global University, by Ms Gurumayum Dolpriya Devi, Ms Pauline Ch. Momin and Ms Shamurailatpam Durjaya, in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by me on... ..  
..... 2/8/22 ..... and found to be satisfactory.

The Committee recommends for the award of the degree of M. Sc. in Botany.

Signature of Supervisor with date:

  
2/8/22

Signature of External Examiner with date:

  
02/08/2022

Signature of Coordinator/HOD with date:

  
2/8/22



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**PHYTOCHEMICAL ANALYSIS AND  
EVALUATION OF ANTIMICROBIAL ACTIVITY  
OF *Parmelia* sp. FOUND IN GOLAGHAT, ASSAM**

**A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL  
UNIVERSITY, ASSAM, IN PARTIAL FULFILMENT OF THE REQUIREMENT  
FOR THE DEGREE OF MASTER OF SCIENCE IN BOTANY**

**Submitted by**

Puja Deka

Roll No- 204141016

**Supervised by**

Dr. Anushree Baruah

Asst. Professor,

Dept. Of Botany, RSLSC

The Assam Royal Global University

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*shub*

*26.6.24*

HOD/Coordinator  
Department of Botany  
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The Assam Royal Global University  
Beikuchi, NH 37, Guwahati 781031




ROYAL GLOBAL UNIVERSITY  
GUWAHATI

### CERTIFICATE OF EXAMINER

This is to certify that the dissertation entitled "**Phytochemical Analysis and Evaluation of Antimicrobial Activity of *Parmelia sp.* found in Golaghat, Assam**" being submitted to the Dept. Of Botany, Royal School of Life sciences, The Assam Royal Global University, by MS PUJA DEKA , in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by me on... .. 02/08/22 ... .. and found to be satisfactory.

The Committee recommends for the award of the degree of M. Sc. in Botany.

Signature of Supervisor with date:

  
02/08/2022





Signature of External Examiner with date:

Signature of Coordinator/HOD with date:



**A HYDROPONIC APPROACH TO SCREEN ALUMINIUM  
TOXICITY TOLERANT INDIGENOUS RICE VARIETIES OF  
ASSAM AND MANIPUR UPTO SEEDLING STAGE**

A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY,  
ASSAM, IN THE PARTIAL FULFILMENT OF THE REQUIRMENT FOR THE DEGREE OF  
MASTER OF SCIENCE OF BOTANY

BY

**NONGMAITHEM MONIKA**

**ROLL NO: 214141020**

UNDER THE SUPERVISION OF:

Dr. N. SEEMA DEVI

DEPARTMENT OF BOTANY

ROYAL SCHOOL OF LIFE SCIENCES

THE ASSAM ROYAL GLOBAL UNIVERSITY

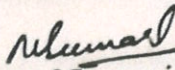
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Drh*


*26.6.24*  
HOD, Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Betkuchi, NH-37, Guwahati 781035

## CERTIFICATE OF THE EXAMINER

This is to certify that the dissertation entitled "A hydroponic approach to screen aluminium toxicity tolerant rice varieties of Assam and Manipur upto seedling stage". Being submitted to the Department of Botany, Royal School of Life Sciences, The Assam Royal Global University. By **NONGMAITHEM MONIKA** in the partial fulfillment for the award of the degree of Master of Science in Botany, has been examined by us on and found satisfactory.

The committee recommends for the award of the degree of M.Sc in Botany.

  
Sign of Supervisor:

  
External Examiner:

Date: 19.06.2023

Date: 19-06-2023

# In vitro Antioxidant activity and antimicrobial activity of fish bone fern *Nephrolepis cordifolia* (L.) of Meghalaya

A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY ASSAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF  
SCIENCE BOTANY



By

LONIKA NONGSIEJ

ROLL NUMBER: 214141014

UNDER THE SUPERVISOR OF:

DR. NINGTHOUJAM SEEMA DEVI

DEPARTMENT OF BOTANY

ROYAL SCHOOL OF LIFE SCIENCES

THE ASSAM ROYAL GLOBAL UNIVERSITY, ASSAM

Forwarded  
26.6.24  
HOD/Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Betkuchi, NH-37, Guwahati 781035





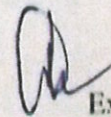
ROYAL GLOBAL UNIVERSITY  
GUWAHATI

### CERTIFICATE OF EXAMINER

This is to certify that the dissertation entitled "IN VITRO ANTIOXIDANT ACTIVITY AND ANTIMICROBIAL ACTIVITY OF FISHBONE FREN OF *Nephrolepis cordifolia* OF MEGHALAYA" being submitted to Department of Botany, Royal School of Life Sciences, The Assam Royal Global University, by **LONIKA NONGSIEJ** in partial fulfilment for the award of degree of M. Sc. in Botany has been examined by us and found to be satisfactory.

The committee recommends for the award of the degree of M.sc in Botany.

(Signature of Supervisor)  
Examiner

  
External

29.05/2023.  
Date:

Date-

Place-

  
(Signature of Coordinator)

Department of Botany

The Assam Royal Global University

Date:

**STUDY ON MEDICINAL PROPERTIES ON INFECTED CULMS  
OF *Zizania latifolia* OF KHARUNG LAKE**

A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY,  
ASSAM, IN THE PARTIAL FULFILMENT OF THE REQUIRMENT FOR THE DEGREE OF  
MASTER OF SCIENCE OF BOTANY

BY

**HAOBAM DIANA DEVI**

**ROLL NO: 214141011**

UNDER THE SUPERVISION OF:

Dr. N. SEEMA DEVI

DEPARTMENT OF BOTANY

ROYAL SCHOOL OF LIFE SCIENCES

THE ASSAM ROYAL GLOBAL UNIVERSITY

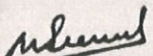
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
28.6.24  
HOD/Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Botkuchi, NH-37, Guwahati 7810

## CERTIFICATE OF THE EXAMINER

This is to certify that the dissertation entitled "STUDY ON MEDICINAL PROPERTIES ON INFECTED CULMS OF *Zizania latifolia* of kharung lake". Being submitted to the Department of Botany, Royal School of Life Sciences, The Assam Royal Global University. By HAOBAM DIANA DEVI in the partial fulfillment for the award of the degree of Master of Science in Botany, has been examined by us on and found satisfactory.

The committee recommends for the award of the degree of M.Sc in Botany.

  
Sign of Supervisor:

  
External Examiner:

Date: 19.06.2023

Date: 19-6-2023



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**Evaluation of antioxidant and *in-vitro* antidiabetic activity  
of *Nelumbo nucifera* seeds**

SUBMITTED BY

**DIGBIJOY SINGHA**

COURSE: M.Sc BOTANY

ROLL NUMBER: 214141006

UNDER THE SUPERVISION OF:

**DR. NINGTHOUJAM SEEMA DEVI**

DEPARTMENT OF BOTANY

ROYAL SCHOOL OF LIFE SCIENCES

THE ASSAM ROYAL GLOBAL UNIVERSITY

*Forwarded*  
*Dr.*

*26.6.24*  
HOD/Coordinator  
Department of Botany  
Royal School of Life Sciences  
The Assam Royal Global University  
Betkuchi, NH-37, Guwahati 781035



ROYAL GLOBAL UNIVERSITY  
GUWAHATI

**CERTIFICATE OF EXAMINER**

This is to certify that the dissertation entitled, being submitted to the Department of Botany, Royal School of Life Sciences, The Assam Royal Global University, by Digbijoy Singha, in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by us on ..... 25.4.23 ..... and found to be satisfactory.

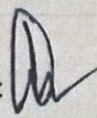
The committee recommends for the award of the degree of M.Sc in Botany.

Supervisor:

External Examiner:

Date:

Date:

  
25/04/2023

  
25/4/23  
Coordinator

Department of Botany

The Assam Royal Global University

**STUDIES ON CADMIUM STRESS OF RICE CULTIVARS  
OF KAMRUP DISTRICT, ASSAM**

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.....  
A DISSERTATION SUBMITTED TO THE ASSAM ROYAL  
GLOBAL UNIVERSITY, ASSAM, IN PARTIAL FULFILLMENT  
OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF  
SCIENCE OF BOTANY



**ROYAL GLOBAL UNIVERSITY**  
GUWAHATI

BY

NITUPAL MALI

ROLL NUMBER:214141019

UNDER THE SUPERVISION OF  
DR. MINARAM NATH

DEPARTMENT OF BOTANY  
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THE ASSAM ROYAL GLOBAL UNIVERSITY  
ASSAM

*Forwarded*  
*Dr.*  
*26.6.24*  
HOD/Coordinator  
Department of Botany  
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The Assam Royal Global University  
Betkuchi, NH 37, Guwahati 781035



ROYAL GLOBAL UNIVERSITY  
— GUWAHATI —

**CERTIFICATE OF EXAMINER**

This is to certify that the dissertation entitled “**Studies on Cadmium stress of rice cultivars of Kamrup district, Assam**”, being submitted to the Department of Botany, Royal School of Life Science, The Assam Royal Global University, by **Nitupal Mali**, in partial fulfilment for the award of the degree of Master of Science in Botany, has been examined by us on and found to be satisfactory.

The committee recommends for the award of the degree of M.Sc. in Botany.

Supervisor:

Date:

External Examiner:

Date:

25/04/2023

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25/4/23