



HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH A+ GRADE (CYCLE 2)
Tripura University Reg. Code 17
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Heating hearts and minds.

Notice

This is to notify that students have been selected Department-wise for 6th Semester Project work, 2023 on the basis of student's 1st, 2nd & 3rd choice and the availability of seats in the respective Departments. Students are requested to contact Dr. Parichita Roy Choudhuri, Dr. Ashish Kumar Singha & Dr. Sudipta Sinha for Zoology, Human Physiology and Botany respectively.

Department-wise selected Student's List for 6th Semester Project, 2023

Sl. No.	Roll No.	Registration No.	Student's Name	Subject for 6 th Semester Project
1	2014000478	2020-010815	Satadeepa Chakraborty	Zoology
2	2014000488	2020-005274	Prasenjit Debbarma	
3	2014000489	2020-000658	Roma Halam	
4	2014000493	2020-000695	Subhrajit Debnath	
5	2014000484	2020-000574	Arindam Modak Bhowmik	Human Physiology
6	2014000487	2020-000344	Netaji Debbarma	
7	2014000494	2020-014682	Suraj Sharma	
8	2014000495	2020-002136	Tanmoy Chakraborty	
9	2014000567	2020-020534	Niharika Begam	Botany
10	2014000475	2020-002231	Naimur Nahar Mumnie	
11	2014000476	2020-002162	Rubi Debbarma	
12	2014000477	2020-000546	Sagarika Debbarma	
13	2014000480	2020-000617	Siyari Jamatia	
14	2014000481	2020-000562	Snigdha Roy	
15	2014000482	2020-000593	Tanuja Tripura	
16	2014000485	2020-000371	Bocholong Debbarma	
17	2014000491	2020-000364	Sapratik Debbarma	

[Signature]
25/04/2023

HEAD

Department of B.Sc. (General)
Bio-Science
HOLY CROSS COLLEGE, AGARTALA




HOLY CROSS COLLEGE


Accredited by NAAC with 'A+' Grade


DEPARTMENT OF BOTANY

Project : 6th Semester- B.Sc. General Students, 2023

Sl. No.	Tripura University Roll No.	Name of the Student	Title/ Topic of the Project	Supervisor
1	2014000475	Naimur Nahar Mumnie	Diversity of edible and poisonous mushroom in Salbagan area of West Tripura	Dr. Sudipta Sinha
2	2014000476	Rubi Debbarma	Endophytic fungi in the leaves of <i>Sesbania grandiflora</i>	Dr. Sudipta Sinha
3	2014000477	Sagarika Debbarma	Palynology of <i>Sesbania grandiflora</i> , <i>Delonix regia</i> from Tripura	Dr. Sudipta Sinha
4	2014000480	Siyari Jamatia	Ethnobotanical study of plants used by Jamatia community of Tripura	Dr. Somnath Kar
5	2014000481	Snigdha Roy	Micro-morphological analysis of <i>Senna alata</i> L. and <i>Senna tora</i> L. from Tripura	Dr. Debasree Lodh
6	2014000482	Tanuja Tripura	Antifungal activity of <i>Melastoma malabathricum</i>	Dr. Sudipta Sinha
7	2014000485	Bocholong Debbarma	Antibacterial activity of <i>Alternanthera dentata</i> leaf extract	Dr. Sudipta Sinha
8	2014000491	Sapratik Debbarma	Pictorial flora study of Holy Cross College	Dr. Somnath Kar


25.4.23


25/4/23
HEAD
Department of Botany,
HOLY CROSS COLLEGE, AGARTALA


25/04/23
HEAD
Department of B.Sc. (General)
Bio-Science
HOLY CROSS COLLEGE, AGARTALA

Department of Zoology, Holy Cross College, Jubatara, Agartala

Project Details

B.Sc. General, 6th Semester, 2023

S l .	Dept.	Date	Name of the student	Roll no	Registratio n no	Project Title	Name of the supervisor
1	B. Sc. General	5/7/2023	Satadeepa Chakraborty	2014000478	2020010815	Determining the pattern of inheritance of diabetes mellitus type 2	Dr. Rumki Nath Sen
2	B. Sc. General	5/7/2023	Subhrajit Debnath	2014000493	2020000695	Earthworm communities under unutilized pasture of Khowai district	Dr. Subhalaxmi Bhattacharjee
3	B. Sc. General	5/7/2023	Prasenjit Debbarma	2014000488	005274	A study on pig farming carried out in Bhati Fatick Charra	Dr. Parichita Roy Choudhury
4	B. Sc. General	5/7/2023	Roma Halam	2014000489	2020000658	A study of Gallus domestius in a poultry farm at Panisagar, North Tripura a comervative study with available lectures	Dr. Anamika Bhowmik

Subhalaxmi Bhattacharjee
07/07/23

Head, Dept. of Zoology,
Holy Cross College,
Agartala

Subhalaxmi Bhattacharjee
07/07/23
HEAD
Department of B.Sc. (General)
Bio-Science
HOLY CROSS COLLEGE, AGARTALA

BSc General Project 6th Semester, w.e.f. April 2023

Department of Human Physiology

Sl. No.	Name of the Guide	Name of the Student	Title of the Project
1.	Dr. Ashish Kumar Singha	Arindam Modak Bhowmik	How obesity alters the risk of diabetes?
2.	Dr. Ashish Kumar Singha	Netaji Debbarma	What is the effect of sodium and potassium salt intake on blood pressure?
3.	Dr. Ashish Kumar Singha	Suraj Sharma	What are the effects of fungal infection on skin?
4.	Dr. Ashish Kumar Singha	Tanmoy Chakraborty	How diets effects on kidney diseases?
5.	Dr. Ashish Kumar Singha	Niharika Begum	How exercise and muscular workout alters blood pressure on younger people?

Ashish
22/8/2023

HEAD
Department of B.Sc. (General)
Bio-Science
HOLY CROSS COLLEGE, AGARTALA

W
22/08/2023

HEAD
Department of Human Physiology,
HOLY CROSS COLLEGE, AGARTALA

Project Report



Title: Palynology of *Sesbania grandiflora* , *Delonix regia*
from Tripura.

Project Paper of B.Sc 6th Semester For Degree.

Tripura University



Name of the student : Sagarika Debbarma.

Name of the college : Holy cross college, Jubatara,
Agartala.

Registraton No. : 000546

Roll no : 2014000477

EXAMINED

Department of Botany

Holy Cross College

Agartala, Tripura (West).

Holy Cross College , Jubatara, Agartala.



HOLY CROSS COLLEGE, JUBATARA

CERTIFICATE

This to certify that the project work entitled, "Palynology of *Sesbania grandiflora* ,
Delonix regia from Tripura" has been carried out by SAGARIKA DEBBARMA
bearing Roll No. 2014000477 & Reg. No. 000546 of 2020, during her B.Sc. 6th semester
project work in Department of Botany, Holy Cross College, Agartala of the year 2023
under my guidance.

Sudipta Sinha,
10/07/23

Dr. Sudipta
Sinha

Assistant Professor

Dept. of Botany

Holy Cross College

Jubatara, Mohanpur Road,

Lembucherra,

Debendrachandranagar, Tripura

DECLARATION

I, Sagarika Debbarma, hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere.

Any literature, data or work done by others and cited in the report has been given due acknowledgement and listed in the reference section.

Sagarika Debbarma
.....

Sagarika debbarma.

Roll no : 2014000477

Date : 10 /07/2023

INTRODUCTION

Palynology, often known as the science of Palynomorphs (e.g., pollen, spores, cysts, diatoms), is the study of these organisms. In addition to these fields, palynology has applications in allergies, forensic science, and crime scene investigation. (Grimsson et al., 2018)

There are several morphological and ultrastructural characteristics of spores and pollen grains. These palynological characteristics have give rise to a large number of characters that are crucial for determining the evolutionary relationships of plants. (www.sciencedirect.com).

Pollen profiling can be used to address current spatial concerns in addition to using fossilised pollen to comprehend the history temporal change of particular places (Webb et al., 2018).

Sesbania grandiflora has a fast-growing perennial, deciduous or evergreen, legume tree morphology that can reach heights of up to 10-15 m (Ecocrop, 2010). It has a 20-year life cycle (Heering et al., 1992). Its roots are extensively nodulated, and in wet situations, some floating roots may form. The trunk has few branches and is straight.

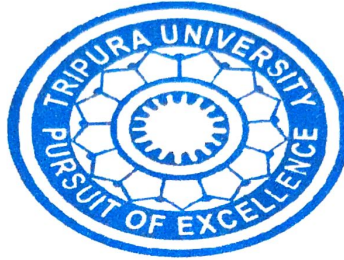
Its environmental has a number of positive effects on the environment. It is employed for soil fertility improvement and reforestation of degraded areas since it is a rapidly growing, N-fixing legume. According to Duke (1983) and Heering et al. (1992), it is frequently planted as fence lines, shade trees, windbreaks, and supports for other crops (pepper vines, vanilla).

PROJECT REPORT

Title: Endophytic Fungi In The Leaves Of *Sesbania Grandiflora*

(project paper of B.sc.6th semester for TDPH Degree)

**TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)**



NAME OF THE STUDENT :Rubi Debbarma
NAME OF THE COLLEGE: Holy Cross College
REGISTRATION NO :2020-002162
ROLL NO :2014000476

Under the supervision of
Dr. Sudipta Sinha

Department of B.Sc General
Holy Cross College
Year 2023

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura (West).



CERTIFICATE

This to certify that the project work entitled, "Endophytic fungi in the leaves of *Sesbania grandiflora*" has been carried out by Rubi Debbarma bearing Roll No. 2014000476 & Reg. No. 002162 of 2020, during her B.Sc. 6th semester project work in Department of Botany, Holy Cross College, Agartala of the year 2023 under the guidance.

Sudipta Singha 10/07/23

Dr. Sudipta singha, Assistant Professor

Dept. of Botany Holy Cross College

Jubatara, Mahanpur Road,

Lembucherra,

Debendrachandranagar, Tripura

DECLARATION

I, Rubi Debbarma, hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere.

Any literature, data or work done by others and cited in the report has been given due acknowledgement and listed in the reference section.

Rubi Debbarma

RUBI DEBBARMA

ROLL NO : 2014000476

DATE : 10/07/2023

INTRODUCTION

Endophytic fungi are a diverse group of microorganisms that reside asymptotically within the internal tissues of various plant species. These fascinating organisms establish a unique symbiotic relationship with their host plants, colonizing their intercellular spaces, roots, stems, leaves and even seeds. Unlike pathogens that cause disease, endophytic fungi do not cause any apparent harm to their host plants. Instead, they exhibit a mutualistic association, providing numerous benefits to the plants they inhabit.

Endophytic fungi have been found in virtually all plant species studied to date, including trees, shrubs, herbs, and even algae. They are highly prevalent in nature and can be found in various ecosystems worldwide, ranging from forests and grasslands to deserts and aquatic environments. The diversity and abundance of endophytic fungi are immense, with estimates suggesting that each plant species may harbor multiple fungal species within its tissues.

One of the most intriguing aspects of endophytic fungi is their ability to produce a wide array of bioactive secondary metabolites. These compounds, which include alkaloids, terpenoids, phenolics and polyketides, possess various biological activities. Endophytic fungi have been found to synthesize compounds with antimicrobial, antiviral, antitumor, insecticidal and immunosuppressive properties, among others. As a result,

PROJECT REPORT

Title: Antibacterial activity of *Alternanthera dentata* leaf extract

(Project paper of BSC (elective) 6th semester for TDP Degree)

TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)



NAME OF THE STUDENT: – BOCHOLONG DEBBARMA

NAME OF THE COLLEGE: - HOLY CROSS COLLEGE

REGISTRATION NO.: – 2020-000371

ROLL NO.: - 2014000485

Under the supervision of:
Dr. SUDIPTA SINHA
Department of Botany
Holy Cross College
Year -2023

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura (West)



CERTIFICATE

This is to certify that the project entitled, "**Anti-bacterial activity of *Alternanthera dentata* leaf extract**" has been carried out by Bocholong Debbarma bearing roll no: - 2014000485 and Reg. no. :- 000371 of 2020, during his BSc. 6th semester project work in department of BSc. General, Holy Cross College, Agartala of the year 2023 under my guidance.

Sudipta Sinha

Dr. Sudipta Sinha
Assistant professor,
Department of Botany
Holy Cross College, Jubatara,
Agartala, West Tripura

DECLARATION

I, Bocholong Debbarma hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submits elsewhere. Any literature, data or work done by others and cited in the report has been given due acknowledgment and listed in the reference section.

Bocholong Debbarma

Bocholong Debbarma,

Roll no.: -2014000485

Date: -10.07.2023

Declaration

I, Bocholung Debbarma, hereby, declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data, or work done by others and cited in the report has been given due acknowledgement and listed in reference section.

Bocholung Debbarma
Bocholung Debbarma
Roll no :- 2014000485
Date :- 12-07-23

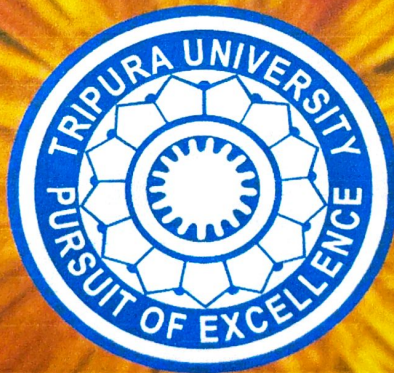
Introduction

Since ancient times medicinal plants have been used (Manzano et al., 2020). In ancient times, the trial-and-error method was used to treat or simply feel better, which gives us the idea of which plant is effective against which disease (Ahmad et al., 2012). The records of such uses over generations allowed the refinement of the use of these medicinal plants, which gave rise to the traditional method which we came to know today. Global prevalence of several infectious diseases caused by bacteria has caused major public health problems (Zhang et al., 2006) (Paterson et al., 2008). The bacteria agents Staphylococcus aureus, Escherichia coli, cause several human infections (Cheesbrough et al., 1984) (Peirano G. et al., 2008). The recent emergence of antibiotic resistance and related toxicity issues limit the use of anti-microbial agents, which prompted the revival in research of anti-microbial role of plants against resistant strains due to comparable safety and efficacy (Alvino et al., 2009).

Alternanthera dentata is a herbaceous plant belonging to the Amaranthaceae family. It is commonly known as Purple Knight, Joseph's coat, Bishalyakarani (Bengali) and Agonita (Tripuri). It is a terrestrial plant found in tropical habitats. It is a shrub and is around 40 cm in height and 90 cm wide. It has reddish to purple, burgundy, oval shaped and has entire margin. Its stems are reddish to purple. It

TRIPURA UNIVERSITY

Pictorial Flora study of Holy Cross College
Project paper TDP B. Sc 6th semester



Name : Sapratik Debbarma
Institution : Holy Cross College
Reg. No. : 2020-000364
Roll No. : 2014000491

Under the supervision of
Dr. Somnath Kar,
Department of Botany, Holy Cross College
Agartala, Tripura (West).

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura (West).



CERTIFICATE

This is to certify that the project entitled, “**Pictorial floristic study of botanical plants in Holy Cross College**” has been carried out by Sapratik Debbarma bearing roll no. :- 2014000491 and Reg no. :- 000364 – 2020, during his B. Sc. 6th semester project work in the Department of B. Sc. General, Holy Cross College, Agartala of the year 2023 under my guidance.

Somnath Kar
12/07/23

Dr. Somnath Kar

Assistant Professor,

Dept. of Botany

Holy Cross College, West Tripura

Jubatara, Mohanpur Road, Agartala

Debendrachandranagar, Agartala

DECLARATION

I, Sapratik Debbarma hereby declare that the work and experience present herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data, and work done by others and cited in the report has been given due acknowledgment and listed in the reference section.

Sapratik Debbarma

Roll no.: - 2014000491

B.Sc. General

Holy Cross College.

INTRODUCTION

Pictorial research refers to a methodology used in various fields of study to gather and analyze data using visual representations such as photographs, drawings, diagrams, charts or other visual media. It involves the collection, interpretation, and presentation of visual materials to gain insights and understanding of a particular subject or research question.

In pictorial research, visual data is treated as primary source of information and can be used independently or in combination with other research methods. Researchers use visual materials as evidence, context, or illustration to support their investigations and analysis. Pictorial research can be conducted in various disciplines, including art history, anthropology, sociology, geography, psychology, and design, among others.

TRIPURA UNIVERSITY



Ethnobotanical study of plants used
by Jamatia community of Tripura
Project paper TDP B. Sc 6th semester



Name : Siyari Jamatia

Institution : Holy Cross College

Reg. No. : 2020-000617

Roll No. : 2014000480

EXAMINED

Under the supervision of
Dr. Somnath Kar,
Department of Botany, Holy Cross College
Agartala, Tripura (West).



CERTIFICATE

This is to certify that the project entitled, “**Ethnobotanical study of plants used by the Jamatia community of Tripura**” has been carried out by Siyari Jamatia bearing roll no. :- 2014000480 and Reg no. :- 000617 – 2020, during her B. Sc 6th semester project work in the department of B. Sc general, Holy Cross College, Agartala of the year 2023 under my guidance.

Somnath Kar
12/07/23

Dr. Somnath Kar
Professor,
Dept. of Botany
Holy Cross College, West Tripura
Jubatara, Mohanpur Road
Debendrachandranagar, Agartala

DECLARATION

I, Siyasi Jamatia hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data, and work done by others and cited in report has been given due acknowledgment and listed in the reference section.

Siyasi Jamatia

Roll no.:- 2014000480

B.Sc. General

Holy Cross College.

INTRODUCTION

The term "Ethnobotany" was introduced by Harshberger in ~~1895~~ 1895 and combines the words "ethno" (study of people) and "botany" (study of plants). It refers to the study of plants used by indigenous



Fig 1(a): some pictures of plants and survey.

communities or aboriginals. Ethnobotany is considered a branch of ethnobiology which focuses on the relationship between humans and their natural environment.

Ethnobotany encompasses the comprehensive examination of the interactions between plants and humans throughout various aspects of life. This includes the cultural, social economic, and ecological

dimensions of these relationships. Researchers in this field investigate the traditional knowledge and practices of different cultures regarding plant use ranging from medicinal applications to dietary customs, spiritual rituals, and material uses. The study of ethnobotany also analyzes how the environment influences human societies. It explores how the availability and distribution of plant resources shape cultural practices, social structures, and economic systems. This

PROJECT REPORT

**Title: Diversity of Edible and Poisonous Mushroom in Salbagan
area of West Tripura**

(Project paper of BSC (elective) 6th semester for TDP Degree)

TRIPURA UNIVERSITY
(A CENTRAL UNIVERSITY)



NAME OF THE STUDENT - NAIMUR NAHAR MUNNIE

NAME OF THE COLLEGE - HOLY CROSS COLLEGE

REGISTRATION NO. - 2020-002233

ROLL NO. - 2014000475

Under the supervision of :

Dr SUDIPTA SINHA

Department of BSC (elective)

Holy Cross College

YEAR 2023

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura (West).

CERTIFICATE



This to certify that the project work entitled, “**Diversity of Edible and poisonous Mushroom in Salbagan area of West Tripura**” has been carried out by Naimur Nahar Munnice bearing Roll no. 2014000475 & Reg. No. 002233 of 2020, during her B.Sc. 6th semester project work in Department of B.Sc. general, Holy Cross College, Agartala of the year 2023 under my guidance.

Sudipta Sinha
10/7/23
Dr. Sudipta Sinha
Assistant Professor,
Department of Botany
Holy cross college, Jubatara
Agartala, West Tripura

DECLARATION

I Naimur Nahar Munnie hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data or work done by others are cited in the report has been given due acknowledgement and listed in the reference section. Naimur Nahar Munnie Roll no: 2014000475

Naimur Nahar Munnie
Name: Naimur Nahar Munnie

Roll no.:2014000475

Department of Botany
Holy cross college, Jubatara
Agartala, West Tripura

Date: 10/07/23

INTRODUCTION

Mushrooms are a rich source of nutrition. It's a eukaryotic embodied soul its body is made up of, which depends on other organisms for its food. In a word, it's a parasite. Mushrooms are also known as fungi in the field of science (E. Boa, 2005).

After a devastating flood, the crop fields are being destroyed. In that damp soil, various types of fungus start to grow. It's our almighty's mercy who gave edible mushrooms to that fungus. It has different habitats. Sometimes it grows on the land, sometimes above the land, and sometimes it can grow over any dry tree or damp place.

Mushrooms are seasonal macrofungi and occupy diverse niches in nature in the forest ecosystem. They form macroscopic fruiting bodies such as agarics, boletes, jelly fungi, coral fungi, stinkhorns, bracket fungi, puffballs and bird's nest fungi. They may be fleshy, sub-fleshy

TRIPURA UNIVERSITY



Project paper TDP B. Sc 6th Semester

**Micro-morphological analysis of
Senna alata L. and *Senna tora* L. from Tripura**



**Name : Snigdha Roy
Institution : Holy Cross College
Reg. No. : 2020-000562
Roll No. : 2014000481**

**Under the Supervision of
Dr. Debasree Lodh
Assistant Professor**

Department of Botany, Holy Cross College, Agartala

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura



"Educating hearts and minds"

HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH 'A+' GRADE (CYCLE:2)

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Phone: 0381-2915930, +91 9402315672

email- principalhccagt@gmail.com

Web: www.holycrosscollege.in

This is to certify that the project work entitled "**Micro-morphological analysis of *Senna alata* L. and *Senna tora* L. from Tripura**" has been carried out by **SNIGDHA ROY** bearing Roll no. **2014000481** and Reg. No. **000562** of **2020**, during her B.Sc. 6th semester project work in the **Department of Botany, Holy Cross College, Agartala** in the year 2023 under my guidance.

Debasree Lodh
12/07/2023

Dr. Debasree Lodh
Assistant Professor
Department of Botany
Holy Cross College
Agartala

DECLARATION

I, **Snigdha Roy**, hereby declare that the work and experience presented herein is genuine work done by me and has not been published or submitted elsewhere.

Any literature, data or work done by others and cited in the report has been given due acknowledgement and listed in the reference section.

Snigdha Roy
Snigdha Roy
Roll no: **2014000481**
Reg. No. **000562** of 2020
Date: *10/07/2023*

Declaration

I, Snigdha Roy, hereby declare that the work and experience presented herein is genuine work done by me and has not been published or submitted elsewhere.

Any literature, data or work done by others and cited in the report has been due acknowledgement and listed in the reference section.

Snigdha Roy

Roll no. :- 2014000481

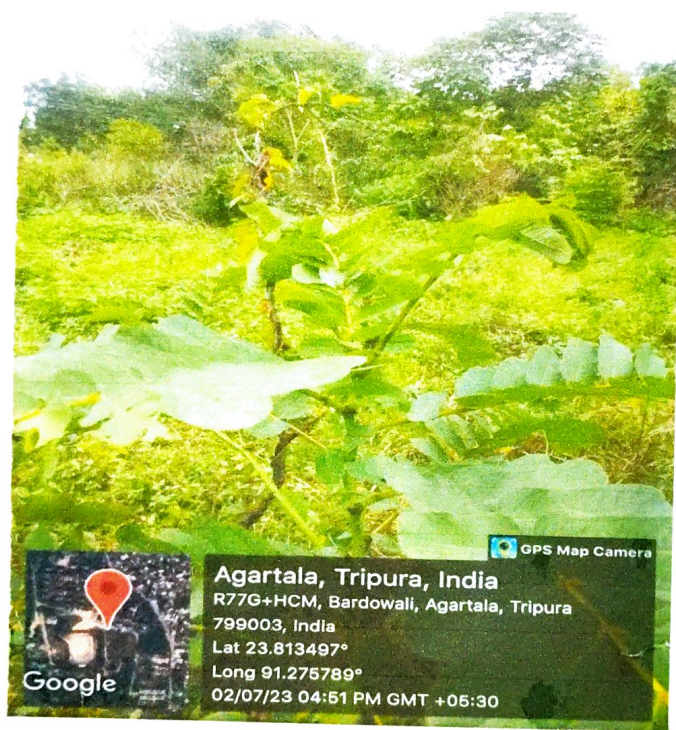
Reg. no. :- 000562 of 2020

Date: 12/07/23

Introduction

Senna alata (L.) (also known as Cassia alata) is a member of the Leguminosae family (Caesalpinieae sub-family). Due to its ancient use, it is also known as ringworm tree or candle bush in accordance to the shape of its inflorescence (Weniger et al., 2009). Senna alata is a medicinal herb of Leguminosae family. It is distributed in the tropical and humid regions (Oladeji et al., 2020).

This species is easy to grow from the seed. They may either be sown directly or started in a nursery.



Senna alata is a 1-4m tall, pungent-smelling annual or biennial shrub that favours sunny, moist environments. The leaves are wide, yellowish-green, and have 5-14 pairs of leaflets (21-13cm), the distal ones are frequently bigger and have an apex that is notched. Bright yellow flowers called

PROJECT REPORT

Title: Antifungal Activity of *Melastoma malabathricum*

(Project paper of BSC (elective) 6th semester for TDP Degree)

TRIPURA UNIVERSITY

(A central university)



NAME OF THE STUDENT : TANUJA TRIPURA

NAME OF THE COLLEGE : HOLY CROSS COLLEGE

ROLL NO. : 2014000482

REGISTRATION NO. : 2020-000593

UNDER THE SUPERVISION OF:

Dr. SUDIPTA SINHA

Department of Botany

Holy Cross College

YEAR-2023

EXAMINED
Department of Botany
Holy Cross College
Agartala, Tripura (West)



CERTIFICATE

This is to certify that the project entitled, "**Anti-fungal activity of *Melastoma malabathricum* leaf extract**" has been carried out by Tanuja Tripura bearing roll no: - 2014000482 and Reg. no. :- 000593 of 2020, during her BSc. 6th semester project work in department of BSc. General, Holy Cross College, Agartala of the year 2023 under my guidance.

Sudipta Sinha.

Dr. Sudipta Sinha
Assistant professor,
Department of Botany
Holy Cross College, Jubatara,
Agartala, West Tripura

DECLARATION

I, Tanuja Tripura hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data or work done by others and cited in the report has been given due acknowledgement and listed in the reference section.

Tanuja Tripura
Tanuja Tripura

Roll no: 2014000482

Date: 10/07/2023

DECLARATION

I, Tamuja Tripura hereby declare that the work and experience presented herein is genuine work done originally by me and has not been published or submitted elsewhere. Any literature, data or work done by others and cited in the report has been given due acknowledgement and listed in the reference section.

Tamujā Tripura
Tamuja Tripura
Roll no. - 2014000482
Date - 12/07/23

Introduction

Melastoma is a plant species that is commonly found in the northeastern region of India, including the state of Tripura. *M. malabathricum*, commonly known as the Indian rhododendron or senduduk (Wikipedia.com). In Tripura it is known as Khumtok (Tripuri) and Datranga (Bengali). It is a medicinal plant belonging to the family Melastomaceae. It is widely distributed throughout tropical and subtropical region of Asia, Africa and Australia. The shrub *M. malabathricum* can reach heights of up to 16 feet (5 metres), however its typical height ranges from 3.3 to 6.6 feet (1-2 metres). The reddish stems are 4-sided to rounded and covered with small bristly rough scales. It comes with lovely pink or purple flowers. Five slender crimson sepals and five purple petals make up the flowers. Leaves are stiffly papery, ovate and elliptic $1.6-5.5 \times 0.7-1.4$ in. ($4-14 \times 1.7-3.5$ cm) long by wide. Leaves have 3-5 longitudinal veins with smooth margins and pointed tips (Joffrey et al., 2012). The fruits are encapsulated and have several endospermous seeds inside of which are tiny embryos (Siti Nushadi's Che Omar et al., 2012).

Title of the project

Earthworm communities under
unutilised pasture of khowai, West Tripura

Project Submitted for the partial fulfillment
of the Degree B.Sc in Zoology (G)

For the Session 2020-2023

Holy cross College
Agartala, Tripura



By

Subhrajit Debnath

Roll No- 2014000493

Registration No- 000695 of 2020

Under the Supervision of

Dr. Subhalaxmi Bhattacharjee

Asst. Professor

Department Of Zoology

Holy Cross College, Agartala, Tripura

Tripura University(A Central University)



HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH A+ GRADE

TITLE OF THE PROJECT

**A STUDY OF GALLUS GALLUS DOMESTICUS IN
A POULTRY FARM AT PANISAGAR , NORTH TRIPURA
A COMERATIVE STUDY WITH AVAILABLE LECTURES**

**PROJECT SUBMITTED FOR THE PARTIAL FULFILMENT OF
THE DEGREE B . SC IN ZOOLOGY FOR THE SESSION 2020-23**

**SUBMITTED BY - ROMA HALAM
ROLL NO: 2014000489
REGISTRATION NO: 2020-000658**



**UNDER THE SUPERVISION OF-
DR . ANAMIKA BHAUMIK ASSISTANT PROFESER ,
DEPARTMENT OF ZOOLOGY , HOLY CROSS COLLEGE
AGARTALA 2023 (TRIPURA UNIVERSITY)**

GUIDED BY : DR . ANAMIKA BHAUMIK

TITLE OF THE PROJECT

**DETERMINING THE PATTERN OF INHERITANCE OF DIABETES MELLITUS TYPE-2.
UNDER THE SUPERVISION OF DR. RUMKI NATH SEN (HOD ZOOLOGY).**

**PROJECT SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE DEGREE
B.SC IN ZOOLOGY (GENERAL) FOR THE SESSION: 2020-2023.**



**HOLY CROSS COLLEGE,
AGARTALA, TRIPURA**

Submitted by :-	SATADEEPA CHAKRABORTY
Roll Number :-	2014000478
Registration number :-	2020010815
Department :-	B.Sc (General)
Semester	6 th

**UNDER THE SUPERVISION OF
DR. RUMKI NATH SEN
H.O.D DEPT. OF ZOOLOGY
HOLY CROSS COLLEGE, AGRATALA.**



PROJECT ON -

A STUDY ON PIG FARMING CARRIED OUT IN BHATI FATICK
CHARRA , *West Tripura.*

UNDER THE SUPERVISION OF : Dr PARICHITA ROY CHOUDHURY
(PROFESSOR OF THE DEPT. OF ZOOLOGY, HOLY CROSS COLLEGE,
AGARTALA , TRIPURA)

SUBMITTED BY -

MASTER PRASENJIT DEBBARMA

ROLL NO :- 2014000488, REG. NO :- 005274

6TH SEM. 3RD YEAR, B.SC (GENERAL)

HOLY CROSS COLLEGE, AGARTALA

JUBATARA, LEMBUCHARA, AGARTALA, WEST TRIPURA

HOLY CROSS COLLEGE



TOPIC :- WHAT IS THE EFFECT OF SODIUM AND POTASSIUM SALT INTAKE ON BLOOD PRESSURE ?

**Project work for 6th Semester B.sc Bio-Science
(General)**

**In partial fulfilment of requirements for the award
of degree of Bachelor Science**

EXAMINED
Dept. of Human Physiology
Holy Cross College, Agartala.

SUBMITTED TO :-

**Department of Human Physiology
Holy Cross College, Agartala**

SUBMITTED BY :-

Netaji Debbarma

B.Sc TDP 6th Semester Examination 2023

T.U Roll No. :- 2014000487

Registration No. :- 2020-000344

*Examined
Asst. Prof.
17/07/23*

*[Signature]
17/7/23*

*[Signature]
17/7/2024*

HOLY CROSS COLLEGE, AGARTALA



LEMBUCHERRA, AGARTALA

TOPIC : HOW DIET EFFECT IN KIDNEY DISEASE?

SUBMITTED TO

Department of Human Physiology
Holy Cross College, Agartala

SUBMITTED BY

TANMOY CHAKRABORTY

B.SC TDP 6TH SEMESTER EXAM-2023

ROLL NO : 2014000495

REGISTRATION NO : 2020-002136

EXAMINED
Dept. of Human Physiology
Holy Cross College, Agartala.

Examined
Date 17/07/23

[Signature]
17/07/23

[Signature]
17/07/2023

WHAT ARE THE EFFECTS OF FUNGAL INFECTION ON SKIN?

Project work for 6th Semester B.Sc. Human Physiology (Hons.)
General

In partial fulfillment of the requirements for the
award of Degree of Bachelor of Science in
~~Human Physiology~~



EXAMINED
Dept of Human Physiology
Holy Cross College, Agartala.

SUBMITTED TO-

Department of human physiology
Holy Cross College, Agartala

SUBMITTED BY-

Suraj Sharma

B.Sc. TDPH 6th Semester Examination- 2023

Candidate's Roll No-2014000494

Candidate's Registration No- 014682 Year- 2020

Examined
A. Chandra
12/07/23.

12/07/23

17/07/2023

HOLY CROSS COLLEGE

TOPIC:- HOW OBESITY ALTERS THE RISK OF DIABETES?

Project work for 6th Semester B.Sc. Human Physiology

**In partial fulfilment of the requirements for the
award of Degree of Bachelor of Science**



EXAMINED
Dept. of Human Physiology
Holy Cross College, Agartala.

*Examined
Asli x.
17/07/23.*

Submitted to-

**Department of Human Physiology
Holy Cross College, Agartala**

*[Signature]
17/7/23*

Submitted by- ARINDAM MODAK BHOWMIK

B.Sc. TDPH 6th Semester Examination- 2023-2024

Candidate's Roll No.- 2014000484

*[Signature]
17/7/2023*

Candidate's Registration No.- 000574

Year- 2020