

त्रिपुरा विश्वविद्यालय
TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय)
(A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत
Suryamaninagar, Agartala, Tripura, INDIA
पिन Pin - 799022



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e-mail : tuoffice@tripurauniv.in
website : www.tripurauniv.in

Certificate

This is to certify that Ms. Debalina Roy, Department of Human Physiology, Tripura University has carried out the project work entitled "**Cytotoxicity Activity of Methanolic Leaf Extract of *Artocarpus heterophyllus* Against HepG2 and B16F10 Cell Lines**" under my direct supervision and guidance in the partial fulfilment of the requirement for the award of degree of Master of Science in Human Physiology. The result embodied in this work is original and has not been submitted anywhere for any other degree or for publication.

Suryamaninagar.
20th May, 2019


20.05.19
Debasish Maiti, PhD
Professor & Head
Department of Human Physiology

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website : www.tripurauniv.in

Certificate

This is to certify that Ms. Aphuti Jamatia, Department of Human Physiology, Tripura University has carried out the project work entitled "***Ficus Hispida Linn. Extract Induce Apoptosis of B16F10 and HepG2 Cells***" under my direct supervision and guidance in the partial fulfilment of the requirement for the award of degree of Master of Science in Human Physiology. The result embodied in this work is original and has not been submitted anywhere for any other degree or for publication.

Suryamaninagar.
20th May, 2019


20-05-19

Debasish Maiti, PhD
Professor & Head
Department of Human Physiology

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website : www.tripurauniv.in

Certificate

This is to certify that Mr. Rajib Namasudra, Department of Human Physiology, Tripura University has carried out the project work entitled "**Anti-cancer and anti-metastatic activity of ethanolic extract of *Senna alata* leaves against B16F10 and HepG2 cell line**" under my direct supervision and guidance in the partial fulfilment of the requirement for the award of degree of Master of Science in Human Physiology. The result embodied in this work is original and has not been submitted anywhere for any other degree or for publication.

Suryamaninagar.
20th May, 2019


20.05.19
Debasish Maiti, PhD
Professor & Head
Department of Human Physiology

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website : www.tripurauniv.in

Certificate

This is to certify that Ms. Debashree Baidya, Department of Human Physiology, Tripura University has carried out the project work entitled "***Ipomoea batatas* Leaf Extract Induce Apoptosis on B16F10 and HepG2 Cell Lines**" under my direct supervision and guidance in the partial fulfilment of the requirement for the award of degree of Master of Science in Human Physiology. The result embodied in this work is original and has not been submitted anywhere for any other degree or for publication.

Suryamaninagar.

20th May, 2019

 20.05.19

Debasish Maiti, PhD

Professor & Head

Department of Human Physiology

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website : www.tripurauniv.in

Certificate

This is to certify that Ms. Pratima Debnath, Department of Human Physiology, Tripura University has carried out the project work entitled "**Anti-cancer and anti-metastatic activity of ethanolic extract of *Jasminum sambac* leaves against B16F10 and HepG2 Cell line**" under my direct supervision and guidance in the partial fulfilment of the requirement for the award of degree of Master of Science in Human Physiology. The result embodied in this work is original and has not been submitted anywhere for any other degree or for publication.

Suryamaninagar.

20th May, 2019

Debasish Maiti, PhD

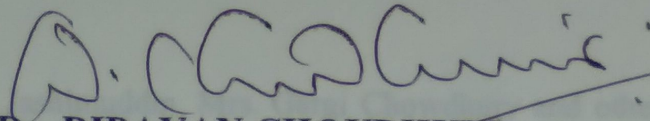
Professor & Head

Department of Human Physiology

**TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
DEPARTMENT OF HUMAN PHYSIOLOGY
SURYAMANINAGAR-799022
TRIPURA.**

CERTIFICATE

This is to certify that the dissertation entitled "EFFECT OF CALCIUM SUPPLEMENTATION ON ADIPOCYTE INFLAMMATION AND OXIDATIVE STRESS IN HIGH FAT DIET INDUCED OBESE RATS" is a bonafide project work done by Miss. Sananda Ghosh under my guidance in partial fulfillment of the procedure required for the M.Sc. degree in Human Physiology under Tripura University (A Central University).



**Dr. DIPAYAN CHOUDHURI,
ASSOCIATE PROFESSOR**

**DEPARTMENT OF HUMAN PHYSIOLOGY
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
SURYAMANINAGAR- 799022.**

21-05-2019
Dr. Dipayan Choudhuri
Associate Professor
Department of Human Physiology
Tripura University, Suryamaninagar

DATE: 21-05-2019

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
DEPARTMENT OF HUMAN PHYSIOLOGY
SURYAMANINAGAR-799022
TRIPURA.

CERTIFICATE

This is to certify that the dissertation entitled "CALCIUM

SUPPLEMENTATION PREVENTS OBESITY INDUCED RENAL

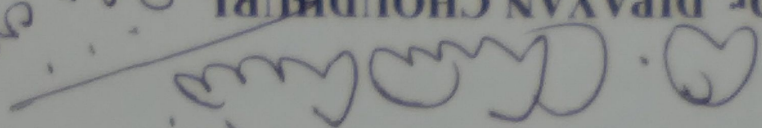
OXIDATIVE STRESS" is the bonafide project work done by Miss. Durba Deb

Roy in partial fulfillment of the required for the M.Sc. degree in Human

Physiology under Tripura University (A Central University).

I hope she will do much better in the nearby future and wish her all

success and strength in her life.



DR. DIPAYAN CHOUDHURI,
ASSOCIATE PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

SURYAMANINAGAR-799022.

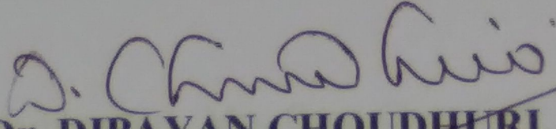
DATE: 21-05-2019

Dr. Dipayan Choudhuri
Associate Professor
Department of Human Physiology
Tripura University, Suryamaninagar

**TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
DEPARTMENT OF HUMAN PHYSIOLOGY
SURYAMANINAGAR-799022
TRIPURA.**

CERTIFICATE

This is to certify that the dissertation entitled "EFFECT OF CALCIUM SUPPLEMENTATION ON HEPATIC LIPID AND CARBOHYDRATE METABOLISM IN HIGH FAT DIET INDUCED OBESE RATS" is a bonafide project work done by Mr. Rahul Das under my guidance in partial fulfillment of the procedure required for the M.Sc. degree in Human Physiology under Tripura University (A Central University).


Dr. DIPAYAN CHOUDHURI, 21-05-2019.
ASSOCIATE PROFESSOR
DEPARTMENT OF HUMAN PHYSIOLOGY
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
SURYAMANINAGAR- 799022.

*Dr. Dipayan Chaudhuri
Associate Professor
Department of Human Physiology
Tripura University, Suryamaninagar*

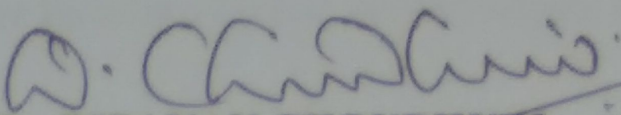
DATE: 21-05-2019

**TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
DEPARTMENT OF HUMAN PHYSIOLOGY
SURYAMANINAGAR-799022
TRIPURA.**

CERTIFICATE

This is to certify that the dissertation entitled "Preventive role of calcium supplementation against hepatic oxidative stress in high fat diet induced obese rats" is the bonafide project work done by Miss Purba Chakraborty in partial fulfilment of the required for the M.Sc. degree in Human Physiology under Tripura University (A Central University).

I hope she will do much better in the nearby future and wish her all success and strength in her life.


Dr. DIPAYAN CHOUDHURI,
ASSOCIATE PROFESSOR

**DEPARTMENT OF HUMAN PHYSIOLOGY
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
SURYAMANINAGAR- 799022.**

21-05-2019
Dr. Dipayan
Associate Professor
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DATE: 21-05-2019

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
DEPARTMENT OF HUMAN PHYSIOLOGY
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CERTIFICATE

This is to certify that the dissertation entitled "Calcium Supplementation Improves Renal Dysfunction In High Fat Diet Induced Obese Rats" is the bonafide project work done by Mr. Amal Das in partial fulfillment of the procedure required for the M.Sc. degree in Molecular Biology and Bioinformatics under Tripura University (A Central University).

I hope he will do much better in the nearby future and wish him all success and strength in his life.


Dr. DIPAYAN CHOUDHURI

ASSOCIATE PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

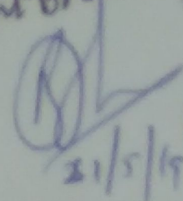
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

SURYAMANINAGAR- 799022.

21-05-2019.
Dr. Dipayan Choudhuri
Associate Professor
Department of Human Physiology
Tripura University, Suryamaninagar

DATE: 21-05-2019

Swrajit Bhattacharyya
21/05/2019.


21/5/19

EXAMINED

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

DEPARTMENT OF HUMAN PHYSIOLOGY

SURYAMANINAGAR-799022

TRIPURA.

CERTIFICATE

This is to certify that the dissertation entitled "Studies on the effect of low calcium diet on adipocytes of male albino rats" is the bonafide project work done by Mr. Rahul Bhowmik in partial fulfillment of the required for the M.Sc. degree in Human Physiology under Tripura University (A Central University).
I hope he will do much better in the nearby future and wish her all success and strength in his life.

DR. DIPAVAN CHOUDHURI, READER
DEPARTMENT OF HUMAN PHYSIOLOGY
TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)
SURYAMANINAGAR-799022.
08-07-2016
Dr. Dipavan Choudhuri
Reader
Department of Human Physiology
Suryamaninagar
Tripura University

DATE: 08-07-2016

INDEX

page no

CERTIFICATE

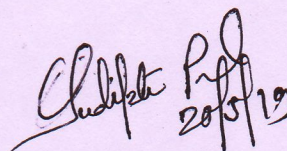
This is to certify that the project work entitled "EVALUATION OF SOME HAEMATOLOGICAL AND HEPATOTOXICITY PARAMETERS OF FRESH WATER SPINY EEL FISH [*Mastacembelus armantus*] COLLECTED FROM THE HAORA RIVER OF WEST TRIPURA" has been carried out by **Ujjal Dhanuk** as a part of fulfillment for the Degree of Masters in Human Physiology for the year 2019 under my supervision.

I hope she will do much better in any such future investigative work.

I wish her success in every walk to life.

Date: 20.5.19

Place: Agartala


20/5/19

Dr. SUDIPTA PAL

ASSISTANT PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

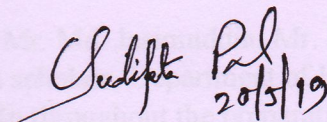
SURYAMANINAGAR

WEST TRIPURA 799022

Certificate

This is to certify that the review report entitled "**FOOD HYGIENE MAINTENANCE OF ROADSIDE FOOD VENDORS OF TRIPURA AGARTALA**" is the bonafide report done by Miss Aradhita Choudhury in partial fulfilment of the project work required for the M.Sc. 4th Semester degree in Human Physiology under Tripura University (A Central University).

I hope she will do much better in the nearby future and wish her all success and strength in her life.


20/5/19

Dr. SUDIPTA PAL

ASSISTANT PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

SURYAMANINAGAR-799022

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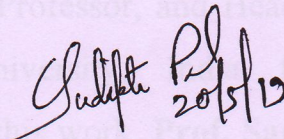
This is to certify that the project work entitled "A SURVEY ON MENSTRUAL HEALTH AND HYGIENE OF THE WOMEN'S HOSTEL DWELLERS OF THE TRIPURA UNIVERSITY, SURYAMANINAGAR, WEST TRIPURA" has been carried out by AMASA YORA N MARAK, as a part of fulfillment for the Degree of Masters in Human Physiology for the year 2019 under my supervision.

I hope she will do much better in any such future investigative work.

I wish her success in every walk to life.

Date: 20.05.19

Place: Agartala



Dr. SUDIPTA PAL

ASSISTANT PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

SURYAMANINAGAR

WEST TRIPURA 799022

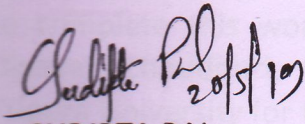
MISS AMASA YORA N MARAK

ACKNOWLEDGEMENT

CERTIFICATE

This is to certify that the review report entitled "TWO ESSENTIAL MINERALS (CALCIUM, PHOSPHORUS) AND PROTEIN CONTENTS OF THREE EDIBLE DRY FISHES OF LOCAL MARKET OF TRIPURA" is the bonafied report done by MISS SUSMITA DHAR in partial fulfilment of the Project work required for the M.Sc.4th semester degree in Human Physiology under Tripura University (A Central University).

I hope she will do much better in the nearby future and wish her all success and strength in her life

 20/5/19

Dr. SUDIPTA PAL

ASSISTENT PROFESSOR

DEPARTMENT OF HUMAN PHYSIOLOGY

TRIPURA UNIVERSITY (A CENTRAL UNIVERSITY)

SURYAMANINAGAR - 799022



SUSMITA DHAR

TRIPURA UNIVERSITY

Certificate



This is to certify that Miss Shyama das Department of Human Physiology, Tripura University, has carried out the project work entitled "Antibacterial activity of earthworm (*E. gammie*) homogenate and partially purified fraction against multidrug resistant *klebsiella pneumoniae* "under my direct supervision and guidance in the partial fulfillment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

A handwritten signature in black ink, which appears to be "Samir Kumar Sil", is written over a horizontal line. Below the signature, the date "21/5/19" is written.

Dated:
Place: Agartala

Prof. Samir Kumar Sil
Department of Human Physiology
Tripura University
(A Central University)
Suryamaninagar, Tripura (W)
Pin-799022, India.

Certificate



This is to certify that **Miss. Keya Datta** Department of Human Physiology, Tripura University, has carried out the project work entitled ***“CYTOTOXIC AFFECTS OF EARTHWORM HOMOGENATE (*E gammiei*) AND PARTIALLY PURIFIED PROTEIN ON HCT-116 HUMAN COLON CANCER CEL”*** under my supervision and guidance for the partial fulfillment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

Dated: 31.04.2019

Place: Agartala



31/4/19
Prof. Samir Kumar Sil
Department of Human Physiology
Tripura University
Suryamaninagar

Certificate



This is to certify that Miss,SNIGDHA DAS, Department Of Human Physiology, Tripura University, has carried out the project work entitled “**WOUND HEALING PROMOTING ACTIVITY OF EARTHWORM, *EUTYPHOEUS GAMMIEI*: IN VITRO STUDY ON HUMAN SKIN FIBROBLAST CELL LINE (GM00637)**”,under my direct supervision and guidance in the partial fulfilment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

Dated:
Place: Agartala


21/5/19
Prof. Samir Kumar Sil
Department of Human Physiology
Tripura University
(A Central University)
Suryamaninagar, Tripura West

Certificate



This is to certify that **Miss Dipa Banik**, Department of Human Physiology, Tripura University, has carried out the project work entitled “Antibacterial activity of earthworm (*E. gammie*) homogenate and partially purified fraction against multidrug resistant *Enterobactor aerogenes*” under my direct supervision and guidance in the partial fulfillment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

Dated:

Place: Agartala


Prof. Samir Kumar Sil


**Department of Human Physiology
Tripura University
(A Central University)
Suryamaninagar, Tripura (W)
Pin-799022, India.**

Certificate



This is to certify that **Priti Rani Nama**, Department Of Human Physiology, Tripura University, has carried out the project work entitled "***In vitro* studies of anti-cancer potential of earthworm (*E. gammiei*) crude homogenate and purified protein fraction on human cervical cancer cell line (HeLa)**" under my direct supervision and guidance in the partial fulfillment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

Dated: 21.05.2019
Place: Agartala


Prof. Samir Kumar Sil
Department of Human Physiology
Tripura University
(A Central University)
Suryamaninagar, Tripura (W)
Pin-799022

Certificate



This is to certify that **Miss Binita Bhattacharya**, Department Of Human Physiology, Tripura University, has carried out the project work entitled “**Anti-bacterial activities of *Parkiajavanica* fruit and bark extract on two gram-negative bacterial strain : a comparative study**” under my direct supervision and guidance in the partial fulfillment of the requirement for the award of Degree of Master in Science in Human Physiology. The results embodied in this work are original and has not been submitted anywhere for any other degree.

A handwritten signature in black ink, appearing to be 'Samir Kumar Sil', is written over a horizontal line. Below the line, the date '21/5/19' is written.

Prof. Samir Kumar Sil

**Department of Human Physiology
Tripura University**

(A Central University)

Suryamaninagar, Tripura(W)

Pin-799022, India.

Dated: 21.05.2019

Place: Agartala