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Ref.

Date.....20

Internship with Department of Physiology, University of Calcutta, Kolkata

**MELATONIN REVERSES LPS-INDUCED INFLAMMATION
AND FIBROSIS IN MOUSE HEPATOCYTES**

A Project Work Submitted for Partial Fulfilment of M.Sc. Degree In
Human Physiology
2019



Submitted by:
SOUNAK CHAKRABORTY
M.Sc. 4th Semester, 2019
Roll No: RMC/PHY/17/09
Registration No: 135-1121-1210-14
RAMMOHAN COLLEGE, KOLKATA

Under the Guidance and Supervision of
Dr. Sreya Chattopadhyay
Assistant Professor
Department of Physiology, University of Calcutta

*Examined
Pohara
22.7.19*

22/7/19

22.7.19

22/7/19

22/7/19



S Sanyal
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Date.....20

 **UNIVERSITY OF CALCUTTA**
SREYA CHATTOPADHYAY, Ph.D.
ASSISTANT PROFESSOR

DEPARTMENT OF PHYSIOLOGY
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Fax : 91-033-2351-9755 / 91-033-2241-3222
91-033-2241-3222
E-mail : sreyachatterjee@yahoo.com


Ref. No _____ Date 25/07/2019

To Whom It May Concern

This is to certify that Mr. SOUNAK CHAKRABORTY, Roll No.: RMC/PHY/17/09; Registration No.: 135-1121-1210-14 has completed his project work for M.Sc. 4th Semester Examination (2019) on "Melatonin Reverses LPS-induced Inflammation and Fibrosis in Mouse Hepatocytes"

The data, method and information that have been presented in this Project Work are quite satisfactory. This fulfils the accessory requirements relating to the prescribed rules and regulations for submission of Project Work for M.Sc. 4th Semester Examination in Human Physiology of Rammohan College, Kolkata.

Sreya Chattopadhyay
Sreya Chattopadhyay 25/07/2019
Department of Physiology
University of Calcutta

 **Dr. Sreya Chattopadhyay**
Assistant Professor
Department of Physiology
University of Calcutta
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Ref.

Date.....20

Studies On Morphological, Biophysical & Biological Characterizations Of Erythrocyte Among Smokers With Different Smoking Habits

PROJECT REPORT COMPLETED UNDER THE GUIDANCE OF
Dr. RAJAN HALDAR
ASSISTANT PROFESSOR OF DEPARTMENT OF PHYSIOLOGY
UNIVERSITY COLLEGE OF SCIENCE & TECHNOLOGY

SUBMITTED BY :-
ROLL NO: RMC/PHY/17/11
REG NO: 413-1221-0020-13

HUMAN PHYSIOLOGY (4TH SEMESTER)
(CLINICAL BIOCHEMISTRY, NUTRITION & DIETETICS SPECIAL)
RAMMOHAN COLLEGE
(UNDER UNIVERSITY OF CALCUTTA)



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Date.....20

UNIVERSITY OF CALCUTTA

<p>Dr. Rajen Haldar, M.Sc., Ph.D. Assistant Professor</p> <p>Department of Physiology University Colleges of Science & Technology 22, A. P. C. Road, Kolkata - 700 009, India.</p>		<p>Phone : +91 33 2350 8388 +91 33 2350 6886 (Ext. 318) Fax : +91 33 2351 8755 Mobile : +91 94755 00919 E-mail : rjhal@yahoo.com</p> <p>Residence : Sanskriti East Colony, Hareisa, Sodegaon Kolkata - 700 112</p>
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25th July, 2019

To
Whom it may concern.

Sub: Project Work Completion Certificate

This is to certify that the project work entitled "*Studies on morphological, biophysical and biochemical characterizations of erythrocyte among smokers with different smoking habits*" submitted by *Nandita Chatterjee* for the partial fulfillment of the requirement of M.Sc. Examination in Human Physiology has been carried out under my supervision. Ms. Chatterjee, a bona fide student of M.Sc. 4th Semester, Department of Physiology, Rammohan College, Kolkata-9 is a thorough and methodical worker and has satisfactory knowledge in the concerned field.

The matter and information that have been presented in this project work are quite satisfactory and adequate in standard for the partial fulfillment of the M.Sc. degree in Human Physiology as required by University of Calcutta. She is now allowed to submit her project paper on the above topic for assessment.

I wish her all the success.

Regards,
Rajen Haldar
Rajen Haldar

DR. RAJEN HALDAR
ASSISTANT PROFESSOR
DEPT. OF PHYSIOLOGY
UNIVERSITY OF CALCUTTA
22, A. P. C. Road, Kolkata-700 009



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Accredited B⁺⁺ Grade by NAAC

Ref.

Date.....20

Erythrocytes in Polycystic ovary syndrome: A morphological and biochemical study confronting dyslipidemia.

A project work submitted for partial fulfillment of M.Sc. degree in Human Physiology

By

ROLL NO: 113/HPY/201008

REGISTRATION NO: 113-1211-0718-17

SPECIAL PAPER: BIOCHEMISTRY

RAMMOHAN COLLEGE, KOLKATA

UNIVERSITY OF CALCUTTA

UNDER THE SUPERVISION OF

Dr. RAJEN HALDAR

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSIOLOGY

UNIVERSITY OF COLLEGES OF SCIENCES & TECHNOLOGY,

UNIVERSITY OF CALCUTTA

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KOLKATA-700 009
INDIA

Ref. No. PHY/

Dated ... 04.07.2022

TO WHOM IT MAY CONCERN

This is to certify that **Manashi Banerjee**, Registration No: **113-1211-0718-17** and Roll No: **113/HPY/201008**, has completed her individual project work entitled “**Erythrocytes in Polycystic Ovary Syndrome: A Morphological and Biochemical Study Confronting Dyslipidemia**” for the partial fulfilment of M.Sc. 4th Semester Examination, 2022 in Human Physiology with specialization in “**Biochemistry**”. The work is satisfactory and up to the standard as required by the University of Calcutta for the degree of Master of Science in Human Physiology.

Rajen Haldar 04.07.2022

Dr. Rajen Haldar
Assistant Professor
Department of Physiology
University of Calcutta

DR. RAJEN HALDAR
Assistant Professor
Dept. of Physiology
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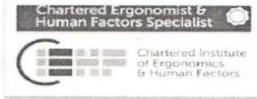
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DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF CALCUTTA

Dr. Somnath Gangopadhyay
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Professor In charge
Occupational Ergonomics
Coordinator
Sports Science Department

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INDIA

Ref. No.

Dated. 17th July 2023

TO WHOM IT MAY CONCERN

This is to certify that, **Ms. Kinza Sarkar** Roll No. 113/HPY/211006 and Registration. No: 113-1211-0002-21 has completed her individual project work for partial fulfillment of M.Sc. Semester IV Examination, 2023 on the topic entitled '**Assessment of Work- Related Musculoskeletal Disorders (WMSDs) during Furniture Manufacturing by Carpenters in West Bengal**'.

The work done is satisfactory up to the standard. The information presented in this project is quite satisfactory. It fulfills the necessary guidelines relating to the prescribed rules and regulations for submission of individual project work for M.Sc. Semester IV Examination in Human Physiology, University of Calcutta.

Dr. Somnath Gangopadhyay
Professor & Former Head
Department of Physiology
University of Calcutta

Dr. Somnath Gangopadhyay
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Ref. No. PHY/.....

Dated 13.07.2023

TO WHOM IT MAY CONCERN

This is to certify that Soumili Datta, Registration
No: 115-1214-0684-18 and Roll No: 113/HPY/211020
has carried out her M.Sc. project work entitled
Cardiorespiratory Fitness, Anaerobic Power,
Motor Fitness and Hand Grip Strength in Young Male Cricketers
for the partial fulfillment of M.Sc. Degree in Human Physiology from the University of
Calcutta under my direct supervision. The work is satisfactory and up to the standard as
required by the University of Calcutta for M.Sc. 4th Semester Examination 2023 in
Human Physiology.

Amit Bandyopadhyay
13/07/2023
Dr. Amit Bandyopadhyay
(Assistant Professor)
Department of Physiology
University of Calcutta

 **Dr. Amit Bandyopadhyay**
M.Sc., Ph.D., FICN
Assistant Professor
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INDIA

Ref. No.

Dated. 17th July 2023

TO WHOM IT MAY CONCERN

This is to certify that, **Mr. Ayan Das**; Roll No. 113/HPY/211004 and Registration. No. 137-1111-0265-18 has completed his individual project work for partial fulfillment of M.Sc. Semester IV Examination, 2023 on the topic entitled '**Analysis of Musculoskeletal Disorders and Posture Related Discomforts Among Weavers of West Bengal**'.

The work done is satisfactory up to the standard. The information presented in this project is quite satisfactory. It fulfills the necessary guidelines relating to the prescribed rules and regulations for submission of individual project work for M.Sc. Semester IV Examination in Human Physiology, University of Calcutta.

Dr. Somnath Gangopadhyay
Professor & Former Head
Department of Physiology
University of Calcutta

Dr. Somnath Gangopadhyay
Professor & Former Head
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Date.....20

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Ref. No. PHY/.....
Dated 13. 07. 20. 23.

TO WHOM IT MAY CONCERN

This is to certify that Tijasha Bhattacharya....., Registration
No: 413-1211-0270-18..... and Roll No: 1131HPV1211024.....
has carried out her M.Sc. project work entitled
Cardiorespiratory Fitness, Anaerobic Power, Motor Fitness and
Hand Grip Strength in Young Male Soccer Players.....
for the partial fulfillment of M.Sc. Degree in Human Physiology from the University of
Calcutta under my direct supervision. The work is satisfactory and up to the standard as
required by the University of Calcutta for M.Sc. 4th Semester Examination 2023 in
Human Physiology.

Amit Bandyopadhyay
13/07/2023
Dr. Amit Bandyopadhyay
(Assistant Professor)
Department of Physiology
University of Calcutta

 **Dr. Amit Bandyopadhyay**
M.Sc., Ph.D., FICN
Assistant Professor
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Date.....20

TELEGRAM : SCIENCE, CAL-700009

Chartered Ergonomist & Human Factors Specialist

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Professor in charge
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Coordinator
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INDIA

Ref. No. Dated. 17th July 2023

TO WHOM IT MAY CONCERN

This is to certify that, **Ms. Ananya Chowdhury**, Roll No. 113/HPY/211001 and Registration. No: 112-1211-0703-18 has completed her individual project work for partial fulfillment of M.Sc. Semester IV Examination, 2023 on the topic entitled '**Prevalence of Musculoskeletal Disorders and Lower Back Pain Disorders Among City Bus Drivers; Ergonomic Risk Factors Related to Workstation Design and Mental Work Load**'.

The work done is satisfactory up to the standard. The information presented in this project is quite satisfactory. It fulfills the necessary guidelines relating to the prescribed rules and regulations for submission of individual project work for M.Sc. Semester IV Examination in Human Physiology, University of Calcutta.


Dr. Somnath Gangopadhyay
Professor & Former Head
Department of Physiology
University of Calcutta

Dr. Somnath Gangopadhyay
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Date.....20

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INDIA

Ref. No. PHY/.....

Dated 13. 07. 2023

TO WHOM IT MAY CONCERN

This is to certify that Ratna Sarkar....., Registration
No: 621-1311-0355-18..... and Roll No: 113/HPX/211013.....
has carried out her M.Sc. project work entitled
Morphological parameters and Cardiopulmonary
Fitness in Young Male Soccer and Cricket Players:
A Comparative Study
for the partial fulfillment of M.Sc. Degree in Human Physiology from the University of
Calcutta under my direct supervision. The work is satisfactory and up to the standard as
required by the University of Calcutta for M.Sc. 4th Semester Examination 2023 in
Human Physiology.

A. Bandyopadhyay
13/07/2023
Dr. Amit Bandyopadhyay
(Assistant Professor)
Department of Physiology
University of Calcutta

Dr. Amit Bandyopadhyay
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TELEGRAM : SCIENCE, CAL-700009

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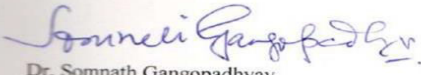
Ref. No. _____

Dated. 17th July 2023

TO WHOM IT MAY CONCERN

This is to certify that, **Ms. Sangita Bagchi** Roll No. 113/HPY/211017 and Registration. No: 113-1212-0003-21 has completed her individual project work for partial fulfillment of M.Sc. Semester IV Examination, 2023 on the topic entitled '**The Prevalence of Musculoskeletal Disorders Associated with Risk Factors and Ergonomic Risk Assessment of Rickshaw Puller**'.

The work done is satisfactory up to the standard. The information presented in this project is quite satisfactory. It fulfills the necessary guidelines relating to the prescribed rules and regulations for submission of individual project work for M.Sc. Semester IV Examination in Human Physiology, University of Calcutta.


Dr. Somnath Gangopadhyay
Professor & Former Head
Department of Physiology
University of Calcutta

Dr. Somnath Gangopadhyay
Professor & Former Head
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Accredited B⁺⁺ Grade by NAAC

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Date.....20

 **UNIVERSITY OF CALCUTTA**

SREYA CHATTOPADHYAY, Ph.D.
ASSISTANT PROFESSOR

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91-033-2241-3222
E-mail : sreyachatterjee@yahoo.com

Date

To Whom It May Concern

This is to certify that Ms. **SUSRITA PAL**, Roll No.: **113/HPY/211023**; Registration No.: **113-1211-0004-21** has completed her Project Work for M.Sc. 4th Semester Examination (2023) on
“**Melatonin as an Armament Against Inflammation Induced Thymic Degeneration**”

The data, method and information that have been presented in this Project Work are quite satisfactory. This fulfils the accessory requirements relating to the prescribed rules and regulations for submission of Project Work for M.Sc. 4th Semester Examination in Human Physiology of Department of Physiology, University of Calcutta.

Sreya Chattopadhyay
Sreya Chattopadhyay 17/07/2023
Department of Physiology
University of Calcutta

Dr. Sreya Chattopadhyay
Assistant Professor
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Ref. No. PHY/..... Dated20.....

To whom it may concern

This is to certify that, Smt. Suparna Sanfui, Roll No. : 113/HPY/211022, Registration No. : 136-1212-06669-17 has carried out her project work entitled, "AMELIORATIVE ROLE OF MELATONIN AGAINST ADRENALINE INDUCED ALTERATIONS IN KREBS' CYCLE ENZYMES IN MITOCHONDRIA ISOLATED FROM GOAT LIVER TISSUE – AN *IN VITRO* STUDY" for the partial fulfillment of M. Sc. Degree in Human Physiology from Rammohan College (University of Calcutta), under my supervision, as required by the University of Calcutta for the M.Sc. 4th Semester Examination, 2023 in Human Physiology.

The work done is original, satisfactory and up to the standard as required.

Debasish Bandyopadhyay
17/7/2023

Prof. Debasish Bandyopadhyay
Dr. Debasish Bandyopadhyay M.Sc., Ph.D.
PROFESSOR
Department of Physiology
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To whom it may concern

This is to certify that, **Smt. Minu Sen**, Roll No. : **113/HPY/211009**, Registration No. : **514-1211-0109-18** has carried out her project work entitled, “**STUDIES ON PROTECTIVE ROLE OF MELATONIN AGAINST ADRENALINE INDUCED ALTERATIONS IN ANTIOXIDANT ENZYMES IN THE CYTOSOLIC FRACTION OF GOAT HEPATIC TISSUE – AN *IN VITRO* STUDY**” for the partial fulfillment of M. Sc. Degree in Human Physiology from Rammohan College (University of Calcutta), under my supervision, as required by the University of Calcutta for the M.Sc. 4th Semester Examination, 2023 in Human Physiology.

The work done is original, satisfactory and up to the standard as required.

Debasish Bandyopadhyay
17/7 2023

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