

Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

102/1, Raja RammohanSarani, Kolkata – 700009

E-mail: rmc.tic85b@yahoo.in, rmc.principal@gmail.com

Accredited B** Grade by NAAC

ECOSYTEM FOR INNOVATION IPR AND INCUBATION CENTRE FOR CREATION AND TRANSFER OF KNOWLEDGE

Session: 2018-2023





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Accredited B⁺⁺ Grade by NAAC

Ref	-	Date2	20
nej		Date	. •

Introduction:

The primary vision of our college is to create an environment that facilitates an education system ensuring quality and quantitative resources for the students to enable them to tackle the changes and challenges of the technology-driven world along with the proliferating possibilities of academia. The educators being facilitators, we always put our effort into promoting each student to build up his or her own identity in the special field of interest.

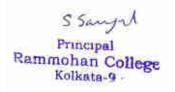
The IQAC of the college has taken upon itself the responsibility of creating an environment that is conducive to innovative research and transfer of knowledge to students and society and also for industry-academia interactions.

Institutional "Innovation ecosystem" has been maintained and governed by Research Committee now renamed as Research Development Cell to sustain a Research hub in the college and to develop self reliant set up of mind among the students.

Objective:

- ❖ Facilitate faculties, research scholars and students with necessary infrastructural support for promoting innovative idea regarding basic and applied science
- ❖ Provide intra- and inter institutional collaborative support for the transformation of innovative basic ideas into realistic application leading to societal benefits
- Provide necessary infrastructure as well as mental/financial support for the development of productive skills required for entrepreneurship
- ❖ Facilitate intellectual growth to create an ecosystem for reliable, impactful, and sustained output







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Rammohan College, Kolkata Innovation and Incubation Centre cell (IICC)

Dr. Saswati Sanyal	Principal and Secretary
Prof. Pritiprava Dutta	Convener
Dr. Krishnendu Sarkar	IQAC Coordinator
Dr. Samiran Mondal	IQAC member
Dr. Sucharita Roy	Teacher Member
Dr. Sonali Ghosh	Teacher Member
Prof. Trina Kundu	Teacher Member
Dr. Moumita Dutta	Teacher Member
Prof. Chayanika Roy	Teacher Member
Dr. Sumitra Chandra	Teacher Member
Dr. Debapriya Das	Teacher Member







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Ref	Date	20
ΛΟ[Date	

Functional units:

Unit A: Research hub and CCSEA registered Animal House

Unit B: Intellectual Property Rights Cell and activity

Unit C: Self-reliance and capacity building hub

Unit A: Research hub and CCSEA registered Animal House

This unit currently played a significant role for developing and strengthening the research ecosystem within the college, aligned with the provisions of NEP-2020.

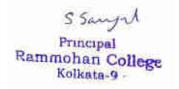
Research Grant

The institution received research grants from the Government in the last several years in the form of major and minor projects. A sizable volume of papers has been published in UGC Care Listed as well as non-listed but blind peer-reviewed and Scopus indexed journals with authenticated impact factors by our teaching faculty members. Book chapters and books with ISBNs have also been published.

Status of receives grants from Government and non-government organizations

2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
23,70,200/-	5,24,393/-	4,19,720/-	14,85,761/-	2,10,000/-





GOVERNMENT OF WEST BENGAL Department of Science & Technology

Bikash Bhawan, 4th floor

Tel: 25693717

Fax:

Memo No: 198(Sanc.)/ST/P/S&T/9G-45/2017

Date: 21/03/2018

Sanction Order for Grant-in-Aid

Demand No.: 70

Department Code: ST

Financial Year:

2017 - 2018

1. Sanctioning Authority: Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

- 2. Name of the Grantee Institution: Rammohan College.
- 3. Address of the Grantee Institution: 120/1, Raja Rammohan Sarani, Kol-09,
- 4. Category of Grantee Institution: Education Institution
- 5. Amount Sanctioned: 932800 (in words Rs. Nine Lakh Thirty Two Thousand Eight Hundred Only.)
- Name of the DDO; Registrar & DDO, Higher Education Department
- Department Code: ST-Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)
- Name of the Treasury/PAO:Pay & Accounts Officer-III, PAO-III
- 9. Nature of Grant

- (a) Recurring or Non-recurring: Recurring
- (b) Capital or Revenue: Revenue
- Condition of Grant

Utilisation Certificate required: Yes

- Category of Grant : Education Institution
- Purpose of Grant: R&D project entitled- Study on calcium carbids generated acctylene mediated alterationin pulmonary tissues and its protection by Hexadecanoic acid, ethyl ester an in vivo stydy.
- 13. An amount of Rs 932800 is hereby allotted for this period in favour of the Registrar & DDO, Higher Education Department From the head of account 3425-60-200-SP-001-31-02-V from the budget provision of the financial year, 2017 2018 under Demand No.70 Department Code ST and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
- 14. Head of Account Code :3425-60-200-SP-001-31-02-V
- Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific
 Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme (State Share)
 The amount will be drawn in T.R. from No.31/32/43 (As applicable as per WBTR)
- 17. The sanctioned amount will be payable to Rammohan College, by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payer Cheque / ECS as applicable.

18. Remarks: Present release is the 1st installment of the total project cost of Rs. 19,99,600/- sanctioned for 3 year (s) work. Rs. 9,32,800/- will be transferred through e-Pradan system to Rammohan College UGC Grant. A/C No.-00250100005293 (SB), IFSC CODE-BARBOCOLKAL, Mobile No.-9831602417.

- 19. Total released amount is within the Budget Provision of the above mentioned head of account during 2017 2018
- This order issues in exercise of the power delegated under Finance Department Memo, No. nullwith the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 211 F.A./Education Date 06/02/2018

Sd/

OSD & E.O. DEPUTY SECRETARY

Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

Copy forwarded for information and necessary action to:-

- The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
- The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
- 3. The Principal Accountant General (Receipt, Works &Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
- 4. Registrar & DDO, Higher Education Department
- 5. Pay & Accounts Officer-III, PAO-III
- 6 J.S. (Budget), Deptt. Of HE, S&T and BT.
- 7 PSO, Science & Technology.
- Shri S. Roy, SSO, Science & Technology.
- Principal, Rammohan College, 120/1, Raja Rammohan Sarani, Kol-09.
 Science & Technology.
- 10 Or. Kaustav Dutta Chowdhury, P.I. of the project, Rammohan College, 120/1, Raja Rammohan Sarani, Kol-09. (Strictly follow annexture-A). 12) Guard File.

OSD & E.O. DEPUTY SECRETARY

Government of West Bengal

Department of Higher Education, Science & Technology and Biotechnology "Vigyan Chetana Bhavan", Salt Lake,

DD 26/B, Sector-I, Kolkata - 700064.

Annexure -A

File No.: ST/P/S&T/9G-45/2017

Name of the P.I. with Institute: Dr. Kaustav Dutta Chowdhury, P.I. of the project, Rammohan College. General Guideline must be followed by the P.I.:

- 1. The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).
- The remuneration to the JRF/SRF & project Asstt. Should be disbursed as per FD Memo No. 6261-F(Y) dt. 27.06.2011.
- Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11.06.2014 where applicable.
- The UC along with the audited statement of expenditure should be obtained within prescribed time limit
 / before release of further installment of grant.
- 5. Follow the Budget break-up given below:

SUMMARY (in Rupees)

SI	Item	BUDGET				
no.		1 ST year	2 nd year	3rd year	Total	
A.	Non Recurring - Minor Permanent equipment: i) Cold centrifuge ii) Trinocular phase contrast microscope with microscopy camera	209500 141500	o	o	351000	
B.	Recurring					
1.	Remuneration of two JRF: @ 16000/- per month + 15% HRA= 2400/- per month + medical allowance Rs. 300/- per month = Rs. 18700/- X 2 per month for two years, and two					
	SRF on the third year @ 18000/- per month + 15% HRA= 2700/- per month + medical allowance Rs. 300/- per month = 21000/- X 2 per month, if the same JRF continues or for a JRF who has completed two years.	448800	448800	504000	1401600	
2.	Consumables					
	i) Glass goods & Plastic wares	50000	20000	10000	80000	
	ii) Chemicals & Reagents	60000	23000	10000	93000	
3.	Outsourcing of sample analysis & other primary & secondary data	10000	20000	5000	35000	
4.	TA for field work sampling (conference/ seminar travel not allowed)	5000	5000	5000	15000	
5.	Reprography, photocopy etc.	2000	2000	2000	6000	
6.	Postage & Stationary	2000	2000	2000	6000	
7.	Report preparation & auditing of project	2000	2000	2000	6000	
8.	Miscellaneous/ special expenditure	2000	2000	2000	6000	
	TOTAL	932800	524800	542000	1999600	

Officer on Special Duty



UNIVERSITY GRANTS COMMISSION EASTERN REGIONAL OFFICE LB # Sector III Salf Lake, Kulkata 700 098

Phone: (033) 2335 4767 Fax : (033) 2335 0586

No. F.PSW-113/15-16 (ERO)

To

The Principal, Rammohan College 102/1 Raja Ram Mohan Sarani, Kolkata West Bengal-700009

Subject: Approval of financial assistance to Dr./Mr./Ms DR. SONALI GHOSH, Department of Biochemistry of your college for Minor Research Project regarding.

Sir/Madam.

 The University Grants Commission has approved the proposal of Minor Research Project mentioned heroinabove as per the recommendations of the Expert Committee and has also approved an allocation of ₹ 460000/- for the project as per details given below:

Non-Recurring Items	Amount (In ₹)
Books and Journals	40000/-
Equipment	200000/-
Recurring Items :	
Travel and Field Work	30000/-
Hiring Services	30000/-
Chemicals and Consumables	400000/-
Contingency (including special needs)	60000/-
Total:	460000/-

2. The terms and conditions of the grant will be as per the Guidelines of the scheme.

3. A sanction letter (100% of non-recurring and 50% of recurring grant) is enclosed herewith.

 The college is requested to submit 'Acceptance Certificate' duly signed by the Principal and The Principal Investigator after receiving this letter.

The date of implementation will be the date of receipt of the first instalment by the college and it may be intimated in the Acceptance Certificate. The tenure of the Project will be for two years for all subjects.

Yours sincerely.

(Dr. Mohammad Arif) Joint Secretary

Copy forwarded for information & necessary action to;

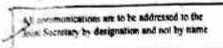
The Registrar, Calcutta University

2 The Director, Higher Education, Government of West Bengal state, state Secretariat

3. Dr./Mr./Ms DR. SONALI GHOSH, department of Biochemistry

4. Guard File

(Vinod Sharma) Under Secretary





UNIVERSITY GRANTS COMMISSION EASTERN REGIONAL OFFICE LB 8 Sector III Salt Lake, Kolkata 700 098

Phone :

(033) 2335 4767

Far :

(033) 2335 0586

No. F.PSW-112/15-16 (ERO)

70

The Principal. RAMMOHAN COLLEGE 102/1 Raja Ram Mohan Sarani, Kolkata West Bengal-700009

Subject: Approval of financial assistance to Dr./Mr./Ms DR. SAMIRAN MONDAL, Department of Biochemistry of your college for Minor Research Project regarding.

SinMadam.

The University Grants Commission has approved the proposal of Minor Research Project mentioned hereinabove as per the recommendations of the Expert Committee and has also approved an allocation of ₹ 465000/- for the project as per details given below :

Non-Recurring Items :	Amount (In ₹)
Books and Journals	5000/-
quipment	210000/-
Recurring Items :	
ravel and Field Work	15000/-
firing Services	10000/-
Chemicals and Consumables	200000/-
nemicals and Consumation	25000/-
Contingency (including special needs) Total:	465000/-

The terms and conditions of the grant will be as per the Guidelines of the scheme.

3 A sanction letter (100% of non-recurring and 50% of recurring grant) is enclosed herewith.

4 The college is requested to submit 'Acceptance Certificate' duly signed by the Principal and The Principal

investigator after receiving this letter. 5. The date of implementation will be the date of receipt of the first instalment by the college and it may be intimated in the Acceptance Certificate. The tenure of the Project will be for two years for all subjects.

Yours sincerely.

(Dr. Mohammad Arif) Joint Secretary

Copy forwarded for information & necessary action to;

The Registrar, Calcutta University.

The Director, Higher Education, Government of West Bengal state, state Secretariat,

3. Dr./Mr./Ms DR. SAMIRAN MONDAL, department of Biochemistry

4. Guard File

(Vinod Sharma) Under Secretary

Government of West Bengal Department of Science & Technology and Biotechnology "Vigyan Chetana Bhavan", Salt Lake, DD 26/B, Sector-I Kolkata - 700064.

Annexure-A

File No.: ST/P/S&T/15G-20/2019

Name of the P.I. with Institute: Dr. Naznin Ara Begum, P.I. of the Project, Visva-Bharati University. General Guideline must be followed by the P.I.:

- The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).
- The Remuneration to the JRF/SRF & project Asstt. should be disbursed as per FD Memo No. 6261-F(Y) dt. 27.06.2011.
- Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11/06/2014 where applicable.
- The UC along with the audited statement of expenditure should be obtained within prescribed time limit/before release of further instalment of grant.
- 5. Follow the Budget Break-up given Below:

SUMMARY (in Rupees)

SI.	Item	Cost in Rs.				
No.	item	1 st Year	2 ^{na} Year	3 rd Year	Total	
A. Non	-Recurring					
1	Permanent Equipment				17	
Total N	Non-Recurring (A)	0			0	
B. Rec	urring					
1	Research Fellow-1No. @Rs. 18,700/- pm (JRF) in the 1 st & 2 nd year and @Rs. 21,000/- pm (SRF) in the 3 rd year				0	
2	Consumables	200000	100000	100000	400000	
3	Other Costs	5000	10000	5000	20000	
4	Travel	5000	3000	2000	10000	
Total F	Recurring (B)	210000	113000	107000	430000	
Grand Total (C = A + B)		210000	113000	107000	430000	

Assistant Secretary to the Govt. of W.B.



GOVERNMENT OF WEST BENGAL Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Memo No: 1934(Sanc.)/ST/P/S&T/15G-20/2019

Date: 25/02/2020

Sanction Order for Grant-in-Aid in Cash

Demand No.: 76

Department Code: BS

Financial Year

2019 - 2020

Sanctioning Authority: Science & Technology and Biotechnology

Recipient of Grant: Siksha Bhavana (Institute), Visva-Bharati.

Category of the recipient of Grant: Grantee Institution

Amount Sanctioned: Rs.210000/-

Rupees Two Lakh Ten Thousand Only.

5. DDO Code :- CAFSTA003

DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.

Department Code: BS-Science & Technology and Biotechnology

Head of Account Code 76-3425-60-200-011-31-02-V

Scheme Name: West Bengal State Council of Science & Technology

Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III

Type of Grant-

Recurring

Utilization Certificate Required or Not Yes

Purpose of Grant: Unfolding the role of small molecule based fluorescent antioxidants towards the misfolding of amyloid proteins: A study to detect and inhibit amyloid aggregations.

- Applicable T.R Form No:- TR Form No.31
- 15. An amount of Rs.210000/-(Rupees Two Lakh Ten Thousand Only.) is hereby sanctioned for payment of Grant to the recipients as per SI No.2 from the Head of Account as stated in Si No.8 above against the Budget Provision of the Financial Year 2019 - 2020. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.
- Total released amount is within the Budget Provision of the Financial Year. 2019 2020.
- 17. This order issues in exercise of the power delegated under Finance Department Memo. No. 1854-F.B. dated-26.03.2019 & 550-F.B. dated-30.07.2019 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 245-
- 18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.

Present release Rs. 2,10,000/- is the 1st installment of the total project cost of Rs. 4,30,000/- sanctioned 19 Remarks: for 3 year (s) work, will be transferred through e-Pradan system to Registrar, Visva-Bharati University. A/C No.-0826050001858(Current), IFSC CODE- UTIBI0BOBC42, Mobile No. - 9434431810.

Copy forwarded for information and necessary action to:-

- The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
- 2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
- 3. The Principal Accountant General (Receipt, Works &Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
- 4 Sec. Officer, Science & Technology & Biotechnology Dept.
- 5 Pay & Accounts Officer-III, Calcutta PAO-III
- 6 PSO.
- 7 Shri. A.K.Kalidaha, SSO.
- Assistant Registrar (Accounts), Visva-Bharati University, Santiniketan-731235.
- Dr. Naznin Ara Begum, P.I. of the Project, Siksha-Bhavana, Visva-Bharati University, Santiniketan-731235.
- 10. Shri Soumyajit Mukherjee, SSO.

11.Guard File.

ASSISTANT SECRETARY



Your Research Fund application

funding <shared> <funding@rsc.org>
To: "samiran1985@gmail.com" <samiran1985@gmail.com>

Thu, Aug 26, 2021 at 8:55 PM

Dear Dr Mondal,

Thank you for your recent application for a RSC Research Fund grant (R21-3846200522) and for your patience as we finalised some of our decisions. Following assessment by our reviewers, I am pleased to inform you that your application has been successful and you have been awarded £4000 for your project "Search for a regulatory mechanism of biflavone based SARS-CoV-2 main protease inhibition and immune modulation".

We notice that your project involves the use of animals, humans or biological samples. Your grant is awarded on the condition that you are able to provide evidence of the necessary ethical approvals and considerations. Please provide statements outlining:

- the relevant laws and/or institutional guidelines you are following (naming the country and/or institute)
- the (named) institutional committee(s) that approved (or will be asked to approve) the study and evidence of approval (if it has already been granted)
- confirmation that informed consent was (or will be) obtained for any experimentation with human subjects

If you are still awaiting ethical approval, we will pay your grant once your approval has been obtained.

We will be happy to pay your grant directly to your institution's bank account by BACs. Please confirm your acceptance of this grant as soon as possible and provide us with the payment details using the online form:

https://www.smartsurvey.co.uk/s/Payment-information

The funds provided should only be spent on those items listed in your application and should not be used to support coursework or other persons within your institution.

Please note that a condition of the Research Fund is that you send a report on the work undertaken and results obtained. We will be in touch with you about this around September 2022.

We would also be very grateful if you could complete the following diversity monitoring form:

https://www.smartsurvey.co.uk/s/A7EG38/

You may have already filled out this anonymous form after your grant application. However, by completing this again, you will help us to monitor the diversity of our grant recipients as well as applicants. All responses are strictly confidential and all questions are optional.

When acknowledging your Research Fund grant in any publication, please use your application ID (R21-3846200522).

Congratulations on your successful application!

Kind regards,

Yuandi Li

Mr Yuandi Li MChem MRSC Programme Manager, Grants Royal Society of Chemistry

T: +44 (0) 1223 432453 | www.rsc.org

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GOVERNMENT OF WEST BENGAL Science & Technology and Biotechnology DEPARTMENT

Tel:

Faxt

Memo No:

1352(Sanc.)/STBT-11012(25)/46/2021-ST SEC

Date: 21/03/2022

Sanction Order for Grant-in-Aid in Cash

Demand No.: 76

Department Code: BS

Financial Year:

2021 - 2022

Sanctioning Authority: ASSISTANT SECRETARY, Science & Technology and Biotechnology

2. Recipient of Grant: Rammohan College,

3 Category of the recipient of Grant: Grantee Institution

Amount Sanctioned: Rs.435000/-

Rupees Four Lakh Thirty Five Thousand Only.

5. DDO Code :- CAFSTA003

DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.

7. Department Code: BS-Science & Technology and Biotechnology

8. Head of Account Code: 76-3425-60-200-010-31-02-V

9. Scheme Name Financial Assistance to other Scientific Bodies for undertaking Scientific

10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III

11. Type of Grant:- Recurring

12. Utilization Certificate Required or Not: Yes.

Purpose of Grant: R&D project entitled- Modulating protein-protein interactions by small molecules: A quest for novel
cancer theranostics.

- 14. Applicable T.R Form No:- TR Form No.31.
- 15. An amount of Rs.435000/-(Rupees Four Lakh Thirty Five Thousand Only.) is hereby sanctioned for payment of Grant to the recipients as per SI.No.2 from the Head of Account as stated in SI.No.8 above against the Budget Provision of the Financial Year 2021 - 2022. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.
- Total released amount is within the Budget Provision of the Financial Year, 2021 2022
- This order issues in exercise of the power delegated under Finance Department Memo. No. 250-FB Dt 30.07.2021 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 281/FA Date 07/03/2022
- The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.
- Remarks: Present release Rs. 4,35,000/- is the 1st installment of the total project cost of Rs. 13,65,000/sanctioned for 3 year (s) work, will be transferred through e-Pradan system to Rammohan College UGC Grant. A/C No.-00250100005293 (SB), IFSC CODE-BARBOCOLKAL, Mobile No.-9674732743.

ASSISTANT SECRETARY

Copy forwarded for information and necessary action to:-

- The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
- 2. The Principal Accountant General (Audit). Treasury Buildings, Kolkata-700001
- The Principal Accountant General (Receipt, Works &Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
- 4. Sec. Officer, Science & Technology & Biotechnology Dept.
- 5. Pay & Accounts Officer-III, Calcutta PAO-III
- 6. PSO.
- 7. Shri Amiya Kr. Kalidaha, SSO.
- 8. Principal, Rammohan College, 120/1, Raja Rammohan Sarani, Kol-09.
 - Samiran Mondal, P.I. of the project, Rammohan College, 120/1, Raja Rammohan Sarani, Kol-89. (Strictly follow annexure-A).
- 10. Guard File. / Uploading this G.O. in the portal.

ASSISTANT SECRETARY

peces 12622

Principal PAMMOHAN COLLEGE Kol-9



Government of West Bengal Department of Science & Technology and Biotechnology "Vigyan Chetana Bhavan", Salt Lake, DD 26/B, Sector-I, Kolkata - 700064.

Annexure-A

File No.: STBT-11012(25)/46/2021-ST

Name of the P.I. with Institute: Samiran Mondal, P.I. of the project, Rammohan College.

General Guideline must be followed by the P.I.:

1. The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).

 The remuneration to the JRF/SRF & project Asstt. Should be disbursed as per FD Memo No. 6261-F(V) dt. 27.06.2011.

3. Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11.06.2014 where applicable.

4. The UC along with the audited statement of expenditure should be obtained within prescribed time limit / before release of further installment of grant.

Follow the Budget break-up given below:

SI. No		SUMMARY (in Rupees) Cost in Rs.			
		1 st Year	2 nd Year	3 rd Year	Total
A. Non	-Recurring				
1	Permanent Equipment				
Total N	ion-Recurring (A)	0			(
B. Rec	urring				
1	Research Fellow-1No. @Rs. 25,000/- pm (JRF) in the 1 st & 2 rd year and @Rs. 30,000/- pm (SRF) in the 3 rd year	300000	300000	360000	960000
2	Consumables	100000	100000	50000	250000
3	Other Costs,	25000	50000	50000	125000
1	Travel	10000	10000	10000	30000
Total D	ecurring (B)	435000	460000	470000	1365000
otal IX					





COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH HUMAN RESOURCE DEVELOPMENT GROUP

(Extra Mural Research Division)
CSIR Complex, Library Avenue, Pusa, New Delhi-110012
Tele:25842074/25841701/25842729/25842704
http://www.csirhrdg.res.in

File No:08/0749(0001)/2019-EMR-I

Date: **06/02/2023**

EXTENSION MEMORANDUM

Subject: Extension of The SENIOR RESEARCH FELLOWSHIP (SRF)-NET

Sir/Madam,

On the basis of satisfactory research progress of **MS PAYEL DAS** as assessed and recommended by three member assessment committee on completion of Sanction tenure as **SRF-NET**, the Head - Human Resource Development Group(CSIR) has been pleased to accord his approval to the extension of fellowship as **SRF-NET** with effect from **01/01/2023** to **31/12/2023** with a stipend of Rs. **35000**/- per month.

The SENIOR RESEARCH FELLOWSHIP (SRF)-NET Fellowship is subject to the existing terms & conditions governing CSIR fellowship which inter-provides that the total tenure of JRF and SRF (from all sources)combined is limited to Five years.

Head, HRDG, CSIR has further been pleased to sanction the following additional grant towards the stipend contingency for the period commencing from 01/01/2023 to 31/12/2023

The claim may be limited to the period of current financial year. For the period beyond that the claim may be submitted at the start of next financial year. No separate renewal sanction will be issued next year.

The expenditure will be debited to the budget head grant in aid Fellowships P - 81101 for the current finncial year.

You are kindly advised to visit the HRDG (CSIR) website (www.csirhrdg.res.in) for rules/regulations governing the fellowship/associateship. You are also advised to submit Annual Progress Report alongwith other requisite documents well in time. Non-compliance of CSIR norms for submission of annual progress report alongwith other requisite documents within six months after completion of yearly tenure may result in termination of fellowship/associateship.

Yours faithfully, SECTION OFFICER EMR-I Date:06/02/2023 To, **MS PAYEL DAS** Project Guide Dr. Sahana Sen Mazumder **Department of Physiology**

Rammohan College 102, 1, Raja Ram Mohan Sarani, Baithakkhana Kolkata West Bengal 700009 Kolkata WEST BENGAL, Pincode:

Copy To:

1. Dr. Sahana Sen Mazumder Through Project Guide

- 2. Director, Rammohan College 102, 1, Raja Ram Mohan Sarani, Baithakkhana Kolkata West Bengal 700009 Kolkata WEST BENGAL, Pincode:
- 3. F&AO (EMR)4. Bill File
- 5. Office Copy

Note: This is a computer generated document and signature is not required.

GOVERNMENT OF WEST BENGAL Science & Technology and Biotechnology DEPARTMENT

Tot

Fax

Minimis Nis:

760 (Sano.) STBT-11012[15)7/2020-ST-SEC

Date: 27/01/2021

Sanction Order for Grant-in-Ald in Cash

Demand No. 76

Department Code: BS

Financial Year

2020 - 2021

- Sanctioning Authority: ASSISTANT SECRETARY Science & Technology and Biotechnology.
- Z. Recipient of Grant. Rammohan College
- 3. Category of the recipient of Grant Grantee Institution
- 4. Amount Sanctioned: Rt. 419720/-

Rupges Four Lakh Ningtoon Thousand Seven Hundred Twenty Only.

- 3 DDO Code CAFSTADUS
- 8 DDC Designation Sec. Officer, Science & Technology & Biotechnology Dept.
- Department Code: BS-Science & Technology and Biotechnology.
- 3 Head of Account Code: 76-3425-60-200-010-31-02-V
- 3 Scheme Name Financial Assistance to other Scientific Bodies for undertaking Scientific
- 10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III. Calcutta PAO-III
- 11 Type of Grant Recurring
- 12 Utilization Certificate Required of Not Yes
- 13 Purpose of Grant: R&D project entitled-Search for new strategy for the use of Nano-technology in combination with medicinal plants neem (Azodiracts indica) and tulsi (Ocimum sanctum) for the prevention of growth and destruction of Mats-Drog-Resistant microbial pathogens.
- 14 Applicable T.R. Form No.- TR Form No.31
- An amount of Rs.419720//Rupess Four Lakh Nineteen Thousand Seven Hundred Twenty Only.) is hereby sanctioned for payment of Grant to the recipients as per SI No.2 from the Head of Account as stated in SI No.3 above against the Budget Provision of the Financial Year 2020 2021. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.
- 15. Total released amount is within the Budget Provision of the Financial Year 2020 2021
- 17 This order issues in exercise of the power delegated under Finance Department Memo, No. nullwith the concurrence of Finance Deptit vide Gr. F.A. Branch U.O. No. 43/ F.A. Date 30/12/2020
- The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.
- Remarks: Present release Rs. 4,19,720/- is the 3rd & final installment of the total project cost Rs. 12,82,800 (revised) sarctioned for 3 year (v) work, will be transferred through e-Pradan system to Remmonan College A/C U.S.C. Cravits. A/C No. 00250100005293 (Current), IFSC CODE-BARBOCOLCAL, Mobile No. 9830170834.

211

ASSISTANT SECRETARY

BUDGET ESTIMATION OF THE PROJECT

Search for the new strategy for the use of nano-technology in combination with medicinal plants Neem (Azadirachta indica) and Tulsi (Ocimum sanctum) for the prevention of growth and destruction of Multidrug resistant microbial pathogen

File No.: ST/P/S&T/1G-14/2015

SUMMARY (in Rupees)

SI	Item		BUDGET				
no.			1 NT year	2"d year	3rd year	Total	
A.	Non Recu	Non Recurring - Minor Permanent equipment:					
	1)	Rotary Shaker (for making Bacterial culture)	10000				
	11)	pH meter	6000	ľ.			
	III)	Clinical centrifuge	5000	17			
	IV)	Micropipettes a. 1 – 10 μl b. 10 – 200 μl c. 100 – 1000 μl	4000 4000 4000			50000	
	V)	Water bath	8000	i			
	VI)	Autoclave	8000				
	VII)	Soxhlet extraction apparatus	1000				
B.	Recurring						
1.	Remuneration of one JRF: @ 16000/- per month + 15% HRA= 2400/- per month + medical allowance Rs. 300/- per month = Rs. 18700/- per month for two years, and one SRF on the third year @ 18000/- per month + 15% HRA= 2700/- per month + medical allowance Rs. 300/- per month = 21000/- per month, if the same JRF continues or for a JRF who has completed two years.		224400	224400	252000	700800	
2.		tion for one project assistant - II (HS) @ Rs. m. (fixed) for three years	44400	44400	44400	133200	
3.	Daily labour for collecton of microbial strain and laboratory maintenance @ Rs. 193/- per day (fixed) for 20 days a month for a period of 12 months per year for three years for one person		46320	46320	46320	138960	
4.	Consuma		80000	60000	60000	200000	
5.		t and car hiring for sampling (travel)	15000	15000	10000	40000	
6.	Postage, S	tationary and miscellaneous expenses	5000	5000	5000	15000	
7.	Report pre	paration, submission, and communication ientific literature	1000	1840	2000	4840	
			466120	396960	419720	1282800	

**The budget may please be reapproved due to enhancement of salary As per Order 1657/ST/P/S&T/Misc-2/2006(Pt-I) dated 31.01.2017.

The project is on its 2nd year.

Except remuneration component all other components are as per previous approved budget (NSP - 3).

Present release will be [Rs. 3,96,960/- (2nd year's fund) + Rs. 27,600/- (remuneration of JRF to be drawn as arrear for the 1^{nt} year after revision of the budget from 01.02.2017)] = Rs. 4,24,560/-

Synopsis submitted for the PhD registration under University of Calcutta

Titles

"Study on destruction and prevention of growth of MDR Staphylococcus aureus by the combined use of nanoparticles, noble plants along with different antibacterial drugs."

Submitted by

Kartik Shaw

Department of Physiology, Rammohan College

University of Calcutta

Address for communication: 85A, Raja Rammohan sarani, Kolkata - 700009

Supervisor

Dr. Sahana Mazumder

Associate professor, Department of Physiology

Rammohan College, University of Calcutta

Associate Supervisor

Prof. (Dr.) Somnath Gangopadhyay

Professor and Head, Department of Physiology

University of Calcutta

Snorm del

(Signature of the Supervisor) Dr. Satiana Mazumder (Sen), Ph.D. Associate Professor

Department of Physiology Rammon University of Contra

Warth Han (Candidate's Signature)

Dr. Somnath Gangopathyay Professor & Head Dept. of Physiology University of Calcutta 92, APC Road, Kolkstn-9

Approved

MAININ (Signature of the Associate Supervisor)



UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110002 FD Diary No. 6547 Dated: 01.11.2021

Dated: November, 2021

F. No.6-170/2019(TG)

The Under Secretary (FD-III) University Grants Commission Bahadur Shah Zafar Marg New Delhi-110 002

6 NOV 2021

Subject:

Release of Grants-in-aid to Principal, Rammohan College, 102/1, Raja Rammohan, Sarani, Calcutta-17 West Bengal for the year 2021-2022 under Travel Grant Scheme (Plan).

Sir/Madam,

I am directed to convey the sanction of the University Grants Commission for payment of grant of Rs.1,17,846/- (Rupees One lakh seventeen thousand eight hundred forty six only) as Travel Grant reimbursement to The Principal, Rammohan College, 102/1, Raja Rammohan, Sarani, Calcutta-17 West Bengal in respect of Dr. Madhab Ghosh, Assistant Professor, Department of Education to visit London from 31st July-2nd August, 2019 for the 2021-2022 (Plan) expenditure incurred during 2021-2022.

Name of the Item	Head of Account	Grant now being Sanctioned	Grant already Sanctioned	Total Grant
Reimbursement of Travel Grant	3(A) 19 (V) 31	1,17,846/-	24	1,17,846/-

- The sanctioned amount is debitable to 3(A) 19 (V) 31 and is valid for payment during the financial year 2021-2022 only.
- The University/Institution shall ensure that all the payment of approved items to the beneficiary/vendors shall be made only through the Expenditure Advance Transfer (EAT) Module of PFMS.
- 3. The amount of the grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the grants-in-aid bill and shall be disbursed to and credited to The Principal, Rammohan College, 102/1, Raja Rammohan, Sarani, Calcutts-17 West Bengal through Electronic mode as per the following details:
 - Details (Name & Address) of Account Holder: The Principal, Rammohan College, 102/1, Raja Rammohan, Sarani, Calcutta-17 West Bengal
 - Account No: 00250100005293
 - Name & address of Bank branch: Bank of Baroda, College Street Branch, Kolkata-700 006
 - d. MICR Code: 700012011
 - e. IFSC Code: BARBOCOLCAL
 - f. Type of Account: Saving Bank
- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed Performs submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.

The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it
has been sanctioned shall be furnished to UGC as early as possible after the close of current
financial year.

8. The assets acquired wholly for substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grants was given without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.

A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the

University in the prescribed Performa.

10. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10% per annum, as amended from time to time on the unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.

 The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and

horizontal (for persons with disability etc.)] in teaching and non-teaching posts.

 The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.

The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013

[F.No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.

 The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging In Higher Education Institutions, 2009.

The University / Institution shall take immediate action for its accreditation by National

Assessment & Accreditation Council (NAAC).

 The accounts of the University / Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2017.

 The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.

Funds are available under the scheme.

19. This issues with the concurrence of IFD vide Diary No.029 dated 01.04.2021.

This issues with the approval of Joint Secretary vide Diary No.97156 dated 22.10.2021.

Dr "/1

15.

Yours faithfully.

(Shashi Malik) Under Secretary মালেক / Shashi Malik

s league

Copy forwarded for information and necessary action for:-

अवर सचिव / Under Secretary

1. The Registrar, University of Calcutta, 87/1, College Street, Kolkata-700 073व्यविद्यालय अनुदान आयोग

 Dr. Madhab Ghosh, Assistant Professor, Department of Education, Rammohan College, 102/1, Raja Rammohan, Sarani, Calcutta–17 West Bengal

- 4. Office of the Principal General of Audit, Central Revenues, AGCR Building, I.P. Estate, New Delhi.
- The Accountant General, Govt. of West Bengal, Calcutta.
- Guard File.

el call

THE ST

(Daisy Sobti) Assistant





(Department of Environment, Government of West Bengal)

Memo No. 929/5K(Bio)-9/2017

Date: 2//12/2022

From: Dr. S. N. Ghosh

Sr. Research Officer

To: T

The Principal

Rammohan College,

102/1, Raja Rammohan Sarani,

Kolkata - 700009

Sub.: Financial assistance for the project entitled Monitoring of Migratory Birds

at selected waterbodies of Murshidabad district of West Bengal."

Sir.

With reference to your letter (vide memo no. 2098/RMC dated 07/09/2022), I like to inform you that the full and final installment of financial assistance for the project entitled 'Monitoring of Migratory Birds at selected waterbodies of Murahidabad district of West Bengal' of Rs. 1,20,000/- (Rupees One lakh twenty thousand only) has been transferred by NEFT dated 16/12/2022 via Allahabad Bank, Ultadanga.

You are requested to acknowledge receipt of the same and kindly submit all the required documents, if any.

Thanking you,

Yours faithfully,

(S. N. Ghosh)

GOVERNMENT OF WEST SENGAL Department of Science & Technology Bleach Bhawart, 4th floor

Tel: 25933717

THE

Date 24557275

Memo No 234 Sanc VST P-S&T/1G-32/2017

Sanction Order for Grant-in-Aid

Demand No. 70

Department Code ST

Francis Year:

201-203

- 1 Sanctioning Authority: Higher Education: Science & Technology and Biotechnology Sci. & Tech.)
- 2. Name of the Granice Institution: Rammonan College.
- 3. Address of the Grantee Institution, 102/1 Raia Rammohan Sarani, Kol-05-
- 4 Category of Grantee Institution Education Institution
- 5. Amount Sanctioned: 512400 (in words Rs. Five Lake Twelve Thousand Four Hundred Only.)
- 6 Name of the DOO Registrar & DOO, Higher Education Department
- 7 Department Code: ST Higher Education, Science & Technology and Biotechnology Sci. & Tech.)
- s. Name of the Treasury PAO: Pay & Accounts Officer-III. PAO-III
- 9. Nature of Grant
- (a) Recurring or Non-recurring Recurring
- (b) Capital or Revenue Revenue
- 10. Condition of Grant
- Unisation Certificate required. Yes
- 11. Category of Grant: Education Institution
- 12. Purpose of Grant: R&D project entitled. Development of digital key for Neuropiers Tinsectal, sessociated with Admics. (Homostera Aphididae) of West Bengal, A Numerical Taxonomic approach
- 13. An amount of Rs 512400 is hereby allotted for this period in favour of the Registrer & DDO. Higher Education Department From the head of account 3425-86-250-SP-551-52-V from the budget provision of the financial year 2017 - 2018 under Demand No 70 Department Code ST and payable to Grantee Institution or by Art payers cheque By-Transfer Credit / ECS.
- 14. Head of Account Code: 3425-60-200-SP-601-31-02-V
- 15. Name of the Scheme: Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Asserteess & Science Popularisation programme Glate Share 16. The amount will be drawn in T.R. from No.31/22/43 (As applicable as per VIETR)
- by Transfer Credit to the need of Actions of the 17 The sendioned amount will be payable to Partmonan College. LEPUCeposit Account of the Grantee Institution or by AIC payee Change | EOS as applicable
- Present release is the 1st installment of the total project cost Rs. 10.45.8003- sanctioned for 3 year (s. work. Now Rs. 5 12 4051- will be transferred through a Practic system to Partimonan College A.C. U.S.C. Grant. A.C. No. -00250100005293 (SB), IFSC CODE-BARSOCOLVAL, Mobile No. 5454071520.
- 19. Total released amount is within the Budget Provision of the above mentioned head of account during 2017 2016.
- 20. This order asses in exercise of the power delegated under Finance Department Memo. No inclinate the concurrence of Finance Dept. vide Gr. F.A. Branch U.O. No. 218 F.A. Education Care SER2/2018

SdA OSD & E.O. DEPUTY SECRETARY





(Department of Environment, Government of West Bengal)

Memo No

/5K(Bro) 19/2017

Date 12/82/2921

From Dr. S. N. Snosh

Senior Research Officer

Too

Dr. Mitu Be-

Associate Professor, Dept. of Botany Gurudas College, 1/1 Suren Sarkar Road,

Narkeldanga, Kolketa 700054

Madam:

I am directed to inform you that the Board is pleased to accept your proposal on preparation of a manuscript for publication of your recently completed project work "Documentation and Development of Database of indigenous Mango (Mangolera Indica L.) varieties of Murchidabad and Malda districts. Towards establishment of Mango Orchard Network and ex situ conservation initiative".

You are requested to follow the guidelines, as suggested by the Chairman.

Please acknowledge and send acceptance in this regard.

Thanking you.

Yours sincerely,

(Dr. S. N. Gnosh)

Copy forwarded for information to

Mema No.: 164 /5K(Bio)-19/2017

Date 12/02/2021

1 Dr. Santi Ranjan Dey, Dept. of Zoology, Rammohan College, 102/2, Raja Rammohan Saranj, Kolkata. W. B. PIN - 700009

(Or S. N. Ghosh

FINANCE Letterhead 2018 several EW das



(Department of Environment, Government of West Bengal)

Memo No. | 49 /5K(Bio)-1/2018

Date 08/02/2021

From: Member Secretary

WB Biodiversity Board

To: Dr. Santi Renjan Doy Department of Zoology Rammohan College

102/1 Raja Rammohan Sarani

Kolkata - 700 009

Sub.: Monitoring of Migratory Birds at selected water bodies of Murshidabad district - regd.

Sir.

Considering your expertise and experience regarding monitoring of migratory water birds in West Bengal. I am hereby informing you that the Board is pleased to engage you for the aforementioned study in the districts of Murshidabad (excluding the areas/wetlands surveyed by other agency/ies), during the winter of 2020-21. In this connection financial assistance of Rs. 50,000.00 (Rupees fifty thousand only) has been sanctioned as one time grant under the following terms and conditions:

· Name of the Project:

Monitoring of Migratory Birds at selected water bodies of Murshidabad district.

· Scope of the Project

- identification of important wetlands for migratory birds across the district. Monitoring the status and condition of wetlands.
- b) Monitoring the population of migratory bird species.
- c) Finding out the area-specific threats that the migratory birds are facing
- d) Analyses of the condition of waterbodies, as well as, migratory birds in relation to the previous studies upto March, 2021.
- Popularize interests in migratory water birds among the common people especially students.
- f) Compilation & submission of data sheet as per AWC Format.
- . Duration of the Project

Upto March, 2021

· Financial Assistance for the Project

Rs. 50,000.00 inclusive of all. No additional payment will be made for any other purpose what so ever.

Contd. to Page 2



(Department of Environment, Government of West Bengal)

Memo No.: 43 /5K(Bio) - 1/2018

Dates

17 /01/2023

Froms

Smt. Tripti Sah, IFS

Member Secretary

Too

Dr. Santi Ranjan Dey

Dept. of Zoology, Rammohan College, 102/2, Raja Rammohan Sarani,

Kolkata - 700009

Sub

Approval for the project entitled 'Monitoring of Migratory Birds at selected

waterbodies of Murshidabad district during the winter season of 2022 - 23.

Sir,

Considering your expertise and experience regarding monitoring of migratory water birds in West Bengal, the Board is pleased to engage you for the afore-mentioned study during the winter of 2022-23. In this connection financial assistance of Rs. 90,000/- (Rupees Ninety thousand only) has been sanctioned as one time grant under the following terms and conditions.

Name of the Project:

Monitoring of Migratory Birds at selected waterbodies of

Murshidabad district

Scope of the Project:

- a) Identification of important wetlands for migratory birds across the district/areas. Monitoring the status and condition of wetlands.
- b) Monitoring the population/ diversity of migratory waterbirds.
- Finding out the area-specific threats that the migratory birds are facing.
- d) Analysis of the condition of waterbodies, as well as, migratory birds in relation to the previous studies upto March, 2022.
- e) Generating awareness on migratory birds in waterbodies among the common people, especially students.

f) Submission of Report in prescribed format.

Duration of the Project:

Upto March, 2023

Financial Assistance for the Project:

Rs. 90,000/- inclusive of all. No additional payment will be made for any other purpose.

Contd. Pg.2.



(Department of Environment, Government of West Bengal)

Memo No. 929 /5K(Bio)- 9/2017

Date: 2//12/2022

From: Dr. S. N. Ghosh

Sr. Research Officer

To: T

The Principal

Rammohan College,

102/1, Raja Rammohan Sarani,

Kolkata - 700009

Stub.r

Financial assistance for the project entitled 'Monitoring of Migratory Birds at selected waterbodies of Murshidabad district of West Bengal.'

Sir.

With reference to your letter (vide memo no. 2098/RMC dated 07/09/2022), I like to inform you that the full and final installment of financial assistance for the project entitled 'Monitoring of Migratory Birds at selected waterbodies of Murshidabad district of West Bengal' of Rs. 1,20,000/- (Rupees One lakh twenty thousand only) has been transferred by NEFT dated 16/12/2022 via Allahabad Bank, Ultadanga.

You are requested to acknowledge receipt of the same and kindly submit all the required documents, if any.

Thanking you,

Yours faithfully,

(S. N. Ghosh)



Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

102/1, Raja Rammohan Sarani, Kolkata – 700009

E-mail: rmc.tic85b@yahoo.in, rmc.principal@gmail.com

Accredited B⁺⁺ Grade by NAAC

Ref	Date	20

The academic and research expertise of Rammohan College contributes to creating an ecosystem for the sharing of knowledge through collaborations and innovations through motivation and establishing necessary infrastructure. The college has entered into Memorandum of Understanding (MoU) with institutions for sharing of knowledge (both on traditional and competitive), library resources, and research works which include:-

- 1. Victoria Institution (College) Kolkata
- 2. Umesh Chandra College, Kolkata
- 3. City College, Kolkata
- 4. Scottisch Church College, Kolkata
- 5. Vivekananda College (Thakurpukur)
- 6. Vidyasagar College for Women, Kolkata
- 7. Women's College (Bagbazar), Kolkata
- 8. Bangabasi College, Kolkata
- 9. Maharani Kasiswari College, Kolkata
- 10. Surendranath College for Women
- 11. National Vocational Academy of India, Kolkata
- 12. George Telegraph, Kolkata
- 13. Roy's Institute of Competitive Examination (RICE), Kolkata
- 14. Bose Institute, Kolkata







Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

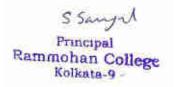
102/1, Raja Rammohan Sarani, Kolkata - 700009

E-mail:rmc.tic85b@yahoo.in, rmc.principal@gmail.com

Accredited B⁺⁺ Grade by NAAC

Ref	Date20
15.Raja N L Khan College, Medinipur	
16.University of Kolkata, Kolkata	
17. Netaji Subhas Eastern Regional Centre (Sports Autho	ority of India), Kolkata
18. Kalyani University, Kalyani	
19. National Institute of Cholera and Enteric Diseases: IC	CMR, Kolkata
20.CSIR-Indian Institute of Chemical Biology (CSIR-IIC	CB), Kolkata
21.Institute of Post Graduate Medical Education & Research	arch, Kolkata
22. Chittaranjan National Cancer Institute (CNCI), Kolka	nta
23.Ramakrishna Mission Vivekananda Educational Narendrapur, Kolkata	l and Research Institute,
24. Visva-Bharati, Santiniketan	
25.St. Xavier's College	
26.Institute of Reproductive Medicine, Kolkata	
27. Shri Balaji Institute of Medical Science, Raipur, Chha	attisgarh
28 Ramkrishna Mahavidyalaya Unakoti Tripura	







Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

102/1, Raja Rammohan Sarani, Kolkata – 700009

E-mail: rmc.tic85b@yahoo.in, rmc.principal@gmail.com

Accredited B** Grade by NAAC

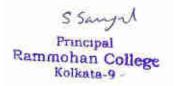
Establishment of central instrumentation facility

The college has developed an institutional Central Instrumentation Facility and has installed various sophisticated instruments with financial support from UGC Major Projects, BOOST (Dept. of Zoology), Department of Science and Technology and Biotechnology and RUSA, Govt, of India.

One short-listed names of the instruments are the following:-

- i. UV Vis spectrophotometer
- ii. ELISA Microplate reader
- iii. Horizontal and vertical gen running system
- iv. Gel Doc
- v. Trans-Blot Turbo Transfer System
- vi. Egg incubator
- vii. Cold centrifuge
- viii. pH meter
- ix. BOD incubator
- x. Laminar Hood and culture system
- xi. Double distilled water purification system







Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

102/1, Raja Rammohan Sarani, Kolkata – 700009

E-mail: rmc.tic85b@yahoo.in, rmc.principal@gmail.com

Accredited B** Grade by NAAC

Their use by multiple departments ensures optimal utilization. Teachers are encouraged to undergo professional development programmes and organize and participate in conferences, seminars, and workshops.

Outcome:

Molecular Biology Techniques and In-Silico Drug Discovery

All-faculty and non-teaching staff members of Department of Zoology organized and conducted the 35 hours duration workshop (16.05.2023-23.05.2023) on Molecular Biology Techniques and *in silico* drug discovery based on theory and practical classes with hands-on training. There were a total of forty-three (43) registered participants, such as UG and PG students, research scholars and technical officers from different Colleges, Universities (Calcutta University, Presidency University), Indian Council of Medical Research and Chittaranjan National Cancer Institute, Kolkata.







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Glimpses of Workshop

















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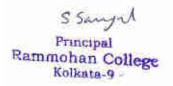
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<u>Intra Departmental collaboration and collaboration among Institutes for</u> Research facilities

Rammohan College, Kolkata Research and Development Cell (RDC)

Research Advisory Council

Dr. Saswati Sanyal, Principal, Rammohan College

Convenor: Dr. Samarendra Nath Banerjee

Committee 1: Finance and Infrastructure

Prof. Tapas Narayan Roy Dr. Santi Ranjan Dey

Committee 2: Research Programme, Policy Development

Dr. Gouri Prosad Datta

Dr. Sahana Majumder (Sen)

Dr. Sonali Ghosh

Dr. Ranajit Mandal

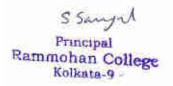
Committee 3: Collaboration and Community

Dr. Samiran Mondal

Dr. Md Ahmadullah

Dr. Samik Acharjee







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Committee 4: Product Development, Monitoring and Commercialization

Dr. Kaustav Dutta Chowdhury

Dr. Moumita Datta

Dr. Shibu Das

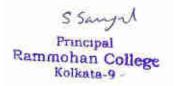
Committee 5: IPR, Legal and Ethical Matters

Dr. Krishnendu Sarkar Dr. Ashesh Garai Prof. Jayanti Sen

The above mentioned five bodies work together to direct, promote, collaborate, envision and conduct fruitful research both inside and outside of the college.

The purpose of collaboration is to put in place a robust mechanism for developing and strengthening the research ecosystem within institute/among institutes. Intra-departmental research collaboration and publication has been done in the Departments of Physiology and Zoology. Two students of the Department of Physiology have successfully awarded the degree of Ph.D. under the guidance of a faculty member of the Zoology department. Currently college have five registered supervisors under whom a number of PhD works have been going on with already a good number of awarded PhDs.







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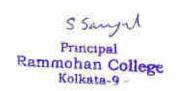
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Ref	Date	20

1. Dr .Gouri Prasad Datta [Faculty, Department of Physiology]

Sl no	Name of the research scholar	Status	Current position	
1.	Dr. Subhashree Basu	Awarded (2017)	Assist Prof., Dept. of Physiology, Tamralipta Mahavidyalaya	
2.	Dr. Anurupa Sen	Awarded (2018)	SACT, Dept. of Physiology, City College	
3.	Dr. Moumita Das	Awarded (2019)	Assist. Prof., Dept. of Applied Nutrition and Dietetics, Sister Nivedita University, Newtown	
4.	Dr. Abhishek Bannerjee	Awarded (2021)	Senior Scientific Officer, Dept. of Sports and Youth Services, Bhubaneswar.	
5.	Dr. Mousumi Mitra	Awarded (2022)	SACT, Dept. of Physiology, Raja N L Khan Women's College (Autonomous)	
6.	Mr. Surojit Sarkar	Submitted	High Performance Analyst, NSNIS, Patiala	
7.	Ms. Monalisa Debnath	Submitted	Deputy Manager-Dietetics HCL Healthcare Pvt. Ltd., Bengaluru	
8.	Ms. Pritha Roy	Ongoing	SACT, Dept. of Nutrition, Amta Ramsaday College, Howrah	







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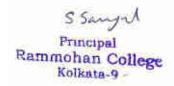
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<i>Ref.</i>	Date20

2. Dr. Sahana Majumder (Sen) [Faculty, Department of Physiology]

Sl no	Name of the research scholar	Status	Current position
1.	Dr. Sujoy Bhattacharya	Awarded (2002)	Research-In-Charge, Department of Molecular Biochemistry, University of Tennessee, Knoxville, TN 37996, USA
2.	Dr. Meghamala Dutta	Awarded (2003)	Consultant, Pepper Content, Times Square Building, Gamdevi, Marol, Andheri East, Mumbai, Maharashtra 400059
3.	Dr. Debipriya Banerjee	Awarded (2016)	Research Assistant, Simon Fraser University, 111-1110 Howie Avenue Coquitlam BC, Canada V3J 1V1
4.	Dr. Jayanta Saha	Awarded (2019)	Assistant Professor, Shri Balaji Institute of Medical Sciences, Mowa, Raipur, Chhattisgarh 492001
5.	Upasana Chowdhury	Submitted	
6.	Kartik Shaw	Submitted	
7.	Tapomoy Chatterjee	Prepared for final submission	
8.	Tamal Ghorai	Preparing to submit	
9.	Payel Das	On going	
10.	Dipankar Mahapatra	On going	







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Ref	Date20
3. Dr. Samarendra Nath Baneriee (Faculty.	Denartment of Zoology)

Sl no	Name of the research scholar	Title of the thesis	Status	Current position
1.	Dr. Srabantika Mallick (MSc in Human Physiology, doing PhD in Department of Zoology)	Antiangiogenic therapy for treatment of cancer: effect of 2 methoxyestradiol in combination with cyclophosphamide on experimental tumour growth in mouse	Awarded (2018)	Post Doc. in Department of Zoology, Rammohan College
2.	Dr. Sudipta Chowdhury (MSc in Human Physiology, doing PhD in Department of Zoology)	Genotoxic and carcinogenic potential of ethanolic extract of betel nut on experimental induced tumour in mice	Awarded (2023)	Assistant Professor in Gopsai Avinandan Sangha (Goroup of Instituion)
3.	Dr. Anasua Banerjee (MSc in Human Physiology, doing PhD in Department of Zoology)	Evaluation of anti- proliferative and anti- cancer activity of pomegranate extract and 2-methoxyestradiol in combination on sarcoma-180 ascitic tumour bearing mice	Awarded (2023)	Post Doctoral Research Fellow, Boston University, Commonwealth Ave, Boston, MA 02215, United States







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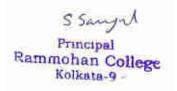
4. Dr. Kaustav Dutta Chowdhury

Sl no	Name of the research scholar	Title of the thesis	Status
1.	Pujita Ghosh	Determination of signalling network associated with pulmonary angiogenesis after calcium carbide exposure in mice-an <i>in vivo</i> study	On going
2.	Soumi Banerjee	Mechanistic analysis on cell death and associated tissue damages after Calcium Carbide exposure in mice - an in vivo study	On going

5. Dr. Samiran Mondal

Sl no	Name of the research scholar	Title of the thesis	Status
1.	Suvankar Karmakar	Modulating protein-protein interactions by small molecules: A quest for novel cancer theranostics	On going







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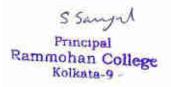
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Ref	Date20
Glimpses of Research Advisory Counci	l meetings (formerly known as Research
Committee)	
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In the Rector's room of college. All no Convener	Principal Rammohan College Kolkata - 700009 s of the Research Committee meeting dated
-	
1. Principal: 300 words 2. Shantanu Das. 1 3. Asherh harai - 6 4. Sahama in agumulu 5. 11 911 6. Sand Ranjan Deg 1119 8. Saningan Morlad	19/18 28 119/18 8 8







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Proceedings of the Research Committee Meeting held on 11th September, 2018

Dr. Saswati Sanyal, Principal conducted the meeting as Chairperson.

- Proceeding of the last meeting of Research Committee held on 16.08.2018 was read and confirmed with some minor corrections.
- Approval of Research Project Four Research projects were placed in the meeting for approval and submission to the Department of Science and Technology, Govt. of West Bengal. All members of the Research Committee approved these Projects.
- 3. It was unanimously resolved that one faculty or Teacher can apply for two Research Projects as Principal Investigator and four Research Projects as Co-Investigator. Moreover, one faculty member can conduct two research projects (one major and one minor) simultaneously as Principal Investigator and two Research Projects Co-Investigator to carry out the Research.
- 4. Research Time: It was suggested by few members that the Research timing of the Research Scholars / Students should be made after class hour of the departments (from 11.50 a.m. to 5.30 p.m.). But other teachers suggested as no research can be conducted within fixed time schedule though by no way the UG / PG classes to be hampered.

The Convener was requested to place the issue for thorough discussion in the next meeting.

The meeting was ended with a vote of thanks to the Chair and from the Chair.

Dr. Saswati Sanyal Principal Rammohan College Dr. Samarendra Nath Banerjee Convener Research Committee Rammohan College



S Saught Principal Rammohan College Kolkata-9



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	N COLLEGE
Research Committee meeting will be hel the Rector's Room. All members are req	d on 03.05.2019 (Friday) at 11.00 a.m. in uested to be present.
29 - 54 - 2519 Agenda: 4. Confirmation of the proceedings of last two 5. Discussion about Research timing of Resea 6. Miscellaneous.	Convener Research Committee Rammohan College Kolkata – 700009 meetings dated 11.09.2018 & 29.03.2019. rch Scholars / Students.
1. spand 03/05/19 2. Shantan. Hun. 1/5/19 3. 200 03/05/19 4. At 2 03/05/19 5. Jayant Ain 03/05/19 6. Sandi Raya 2 08/05/	6,9 08/05/19





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Proceedings of the Research Committee Meeting held on 3rd May, 2019

Dr. Saswati Sanyal, Principal conducted the meeting as Chairperson.

Members present in the meeting.

- 1. Dr. Saswati Sanyal
- 2. Dr. Samarendra Nath Banerjee
- 3. Dr. Shantanu Das
- 4. Dr. Gouri Prasad Dutta
- 5. Prof. Jayanti Sen
- 6. Dr. Kaustav Dutta Chowdhury
- 7. Dr. Santi Ranjan Dey

Agenda No. 1. Proceedings of the last two meetings of Research Committee held on 11.09.2018 and 29.03.2019 were read and confirmed with some minor corrections.

The following modification of the proceedings of the meeting dated 11.09.2018 was done by the Principal which is stated as follows:

In the item No. 3, the sentence "however, at a time one faculty member can only conduct two research project as co-investigator" to added.

Agenda No. 2. Research timing: After thorough discussion regarding the duration of research activities, it was unanimously resolved that entry time of the research scholars should be flexible and obviously need based. But the laboratory should be closed within 5.30 p.m. on working days. If any unavoidable delay occurs suddenly due to some technical problems, Principal should be informed immediately so that the experiment can be successfully completed.

Regarding experiment / animal care on Sunday and holidays permission from the Principal should be taken by the faculty member. Moreover, the faculty member should be present in the College campus / in the laboratory on those days. No research scholar can be permitted to enter into the Laboratory / Animal House without the presence of their supervisor.

<u>Miscellaneous:</u> Project Proposal: Five project proposals and two proposals for organizing seminars were placed in the meeting and forwarded to the Principal for necessary action.

The meeting was ended with a vote of thanks to the Chair and from the Chair.

Dr. Samarendra Nath Banerjee

Convener Research Committee Rammohan College





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Project List forwarded by Research Committee

Name of Project	PI/CO PI	Funding Agency	Remark
No-Farm Activity and Economic Independence of Women in Rural West Bengal	- 4	DST- SERB/DSIR	Approved
Diversity and Abundance of Aquatic Macrobenthos in Fresh waters of Murshidabad and Nadia	Chayanika Roy (PI)	WBBDB	Approved
Study of Population Dynamics of Aquatic Macroinvertebrates of 24 Parganas	Sanjay Kumar Paul (PI)	WBBDB	Approved
Role of Bioactive Honokiol against cellular damage and sterility		DST-SERB	Approved
Convergence of antineoplastic platinum compound against prostate cancer	Dr. Santi Ranjan Dey (CO-PI)	DST-SERB	Approved
Seminar proposal I Recent advancement of Biological Science towards sustainable development	Dr. Santi Ranjan Dey (Convenor)	DST-SERB	Approved
Seminar proposal II Recent advancement of conservation science towards sustainable ecosystem	Dr. Santi Ranjan Dey (Convenor)	DSTWB and WBBDB	Approved

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RAMMOHAN COLLEGE 102/1, Raja Rammohan Sarani, Kolkata – 700009.

Proceedings of the Research Committee meeting, Rammohan College dated 18.11.2022 (Friday) in the 9.00 a.m. in the Principal's chamber.

Members Present:

Ref.

- 1. Dr. Saswati Sanyal, Principal
- 2. Dr. Samarendra Nath Banerjee, Department of Zoology
- 3. Dr. Sahana Sen Majumder, Department of Physiology
- 4. Dr. Shantanu Das, Department of Zoology

Agendum No. 1 Research Proposal

Project Proposal of Dr. Samik Acharjee, Assistant Professor, Department of Zoology Title of the Proposal: Study of melatonin mediated receptor activity in modulation of immune function during heavy metal toxicity in mice.

One project proposal was placed in the meeting and approved by all members. But Principal asked about the scholars' timing and duration of research activities. The laboratory should be closed within 5.30 pm on working days. The Principal should be informed earlier if scholars come during a holiday. Research scholars may be permitted to enter college premises after prior permission from the Principal on that day.

The meeting ended with a vote of thanks to and from the chair.





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Rammohan College

Research subcommittee Meeting: Date of meeting: 25 - 04 - 2023

SL.	Project Title	Pl & Co-Pl
L	Determination of effective dose of Honokiol to ameliorate chronic low dose of chromium induced cellular damage in ovary leading to female sterility in mice. Remark:	PI: Dr Samik Acharjee (Department of Zoology, Rammohan College) Co-PI: Dr Kaustav Dutta Chowdhury Co-PI: Santi Ranjan Dey Co-PI: Sharmistha Chanda (Department of Physiology, Sister Nibedita Govt. Degree college
2.	Development of inhaler by using naturally available flavonoid and carbazole based small molecule scaffold that inhibit MDM2 / P ^{SS} interaction: A theragnostic approach to prevent lung cancer Remark	PI : Dr. Samiran Mondal Co-PI: Dr. Santi Ranjan Dey Co-PI: Dr. S.Ghosh
3.	Numerical Taxonomy approach towards Neuroptera (insecta) of India for development of digital key Remark:	PI: Dr. Santî Ranjan Dey
4.	Development of AI based digital platform for assessment of improvement in decision making of ASD children after intervention to decressparental depression. Remark:	PI: Dr. Madhab Ghosh Co-PI: Santi Ranjan Dey
5.	Assessing the repurposing possibility of approved drugs with human lactate dehydrogenase – a inhibitory potential: a step towards future cancer therapy Remark:	PI: Dr Kaustav Dutta Chowdhury Co-PI: Dr. Santi Ranjan Dey Co-PI: Sri Sanjay Paul
6.	The effect of cadmium exposure on justifie suproductive punction are its implication in developing 1005	PI: Dr. Sorali agreem Day CO-PI: Dr. Sormistha Chand DI: Dr. Sommistha Chand

inhibit MDM2/p53 entraction: A theragnostic approach to present ever concer



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An emergency Research subcommittee meeting will be held on 14-1 the Room in front of the chamber of Principal. All honourable memmeeting. Convener, Research subcommittee, Rammohan College, Kolkata. Date: 12-12-2023 Agendum	2-2023 (Thursday) at 10.00 am in ibers are requested to attend the
Research proposal	
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Proceedings of the Research committee meeting, 14th December, 2023

The research committee meeting was held in the Principal's chamber at 10 A.M. on 14th December, 2023. The meeting was chaired by Dr. Saswati Sanyal, Principal, Rammohan College, Kolkata-09.

Proceedings of the meeting:

- At zero hour of the meeting, Principal madam advised that a project proposal for approval in the Research Committee meeting may be placed at least 7 days before the commencement of the meeting.
- After completion of tenure of the project by Project Fellow/Candidate he/she can
 continue his/her laboratory work up to further 2 years. After this period, he/she will not
 be permitted to work in the laboratory of the college.
 Principal madam also advised in the meeting to submit Research Proposals from the
 faculty members of Arts, Science and Commerce section of the college.
- Dr. Shanti Ranjan Dey proposed the name of Dr. Sonali Ghosh, Assistant Professor, Department of Physiology to act as convenor of the Research Committee because the present convenor Dr. Samarendra Nath Banerjee will retire on 31th December, 2023 other members accepted the proposal of Dr. Santi Ranjan Dey. But Principal madam suggested that the selection of name of the convenor should be approved in the next formal meeting.

Research proposal submitted for approval:

 Title of the Project: Remedial efficacy of Stillbenoids on inhalation induced pulmonary alteration-an in vivo study.

Principal investigator: Dr. Kaustav Dutta Chowdhury, Department of Zoology, Rammohan College

The project proposal was placed in the meeting for approval. All honourable members unanimously accepted the proposal.

The meeting ended with vote of thanks to the chair and from the chair.

5. Sangal 14/12/2023

Commune R.C.





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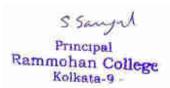
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Collaboration with Sports Authority of India, Kolkata and

Sports and Excersice Physiology Laboratory, Department of Physiology, University of Calcutta







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Deputy Registrar (Acting) University of Calcutta



University of Calcutta

Senate House 67/1, College Street Kolkata - 700 073 Phone : +91-33-2241-0071/4984 Fax: +91-33-2241-3222/88 eMail: phdcalumiliyahoo.co.in

Letter: 10232/Ph.D.(Sc.)

Dated: 30.Dec.2022

TO WHOM IT MAY CONCERN



This is to certify that Sri Surojit Sarkar of 57/1, Shri Dhar Roy Road; Kolkata-700039 bearing Aadhaar card no 2856 1791 1882 has submitted a thesis entitled

"Effect Of Antioxidant Vitamin Supplementation On High-Intensity Training Induced Alteration In Muscle Damage, Oxidative Stress And Fitness Profile Parameters In Post-Adolescent Male Endurance Athletes."

on 28th December 2022 under Ph.D. Regulations 2016 of University of Calcutta for consideration of the University for award of the Ph.D. degree in Physiology

Name of Supervisor:

Dr. Gouriprosad Datta, Associate Professor,

Rammohan College, Kolkata.

Name of Joint Supervisor:

Dr. Swapan Kumar Dey, Consultant Scientist,

Sports Authority Of India, Kolkata.

Name of Associate Supervisor: Dr. Amit Bandyopadhyay, Assistant Professor,



SSangel Principal Rammohan College Kolkata-9 -



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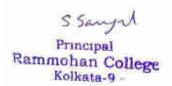
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Dated: 21st April 2022

Letter: 02712/Ph.D.(Sc.)Pro

To Dr. Gouriprosad Datta Dept. of Physiology, Rammohan College, 102/1, Raja Rammohan Sarani, Kolkata-700009, eMaili dattagp@yahoo.co.in

Subject : Inclusion of Joint Supervisor

Dear Sir / Madam,
This is in reference to your latter dates 2nd rebruary 2023, requiring
Inclusion of Joint Supervisor for the Ph.O. programme in "Physiology", being
carried out by Smt Pritha Roy.

In this connection, I am desired to inform you that Dr. Amit Bandyopadhyay has been appointed Joint Supervisor for the said Ph.D. programme under your supervisorship.

Yours faithfully,

Sd/-

Deputy Registrar (Acting)

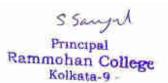
Letter No: 02713/Ph.D. (Sc.)Pro dated 21st April 2022
Copy forwarded to: Dr. Amit Bandyopadhyay
Dept. of Physiology, C.U; 92, A.P.C. Road, Kolketa-700009; eMail: bamit74@gmail.com; bamit74@yaneo.co.in.

5d/-Deputy Registrar (Acting)

Letter No: 02714/Ph.D.(Sc.)Pro dated 21st April 2022 Copy forwarded to: Smt Pritha Roy Krishna Apt., Block-B, Flat No.-203: 17/5, Ramcharan Sett Road, Ramrajatala; Howrah-11104.

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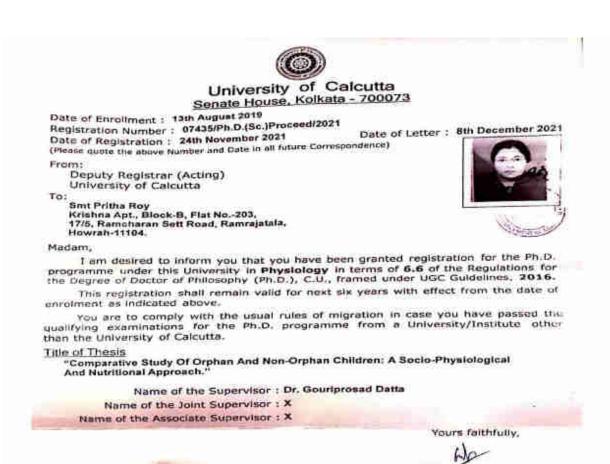
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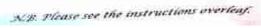
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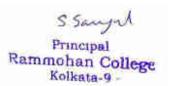
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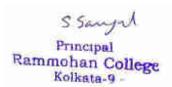
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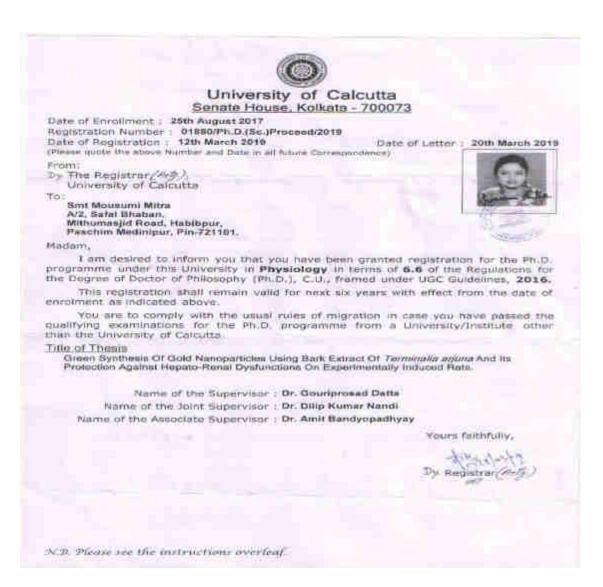
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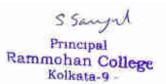
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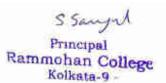
To whom it may concern

This is to declare that I, Dr. Kutatip Jana, Principal Scientist, Division of Molecular Medicine, Bose Institute, has acted as Joint Supervisor in research collaboration with Dr. Gouriprosed Datta, Associate Professor, Dept. of Physiology, Rammohan College for the Ph.D. program of Ms. Moumita Das (Reg No. 8646/Ph.D.(Sc.)Proceed/2014) on the thesis entitled "Nutritional Profiling and Pharmacognostic Evaluation of Green Capsicum (Capsicum annum L.) against Alcohol Induced Oxidative Stress".

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Collaboration with Department of Physiology, University of Calcutta, Kolkata

UNIVERSITY OF CALCUTTA Department of Physiology

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Personal, barnit74efiginal.com

Flat No. 3, First Floor, Brunda Apartment C-51/2, Brahmajan More, Kolkata: 700096, India.

Date: 20th October 2023.

To whom it may concern

This is to declare that I. Dr. Amit Bandyopadhyay, Assistant Professor, Sports and Exercise Physiology Laboratory, Department of Physiology, University of Calcutta, have acted as an Associate Supervisor in research collaboration with Dr. Gouriprosad Datta, Associate Professor, Dept. of Physiology, Rammohan College for the Ph.D. programme of Mr. Surojit Sarkar, Ms. Monalisa Debnath, and Ms. Mousumi Dutta.

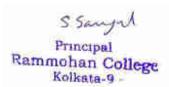
Also, I am presently associated as a Joint Supervisor in research collaboration with Dr. Gouriprosad Datta, Associate Professor, Dept. of Physiology, Rammohan tollege for the Ph.D. programme of Ms. Pritha Roy (Reg No. 07435/Ph.D.(Sc.)Proceed/2021), on the thesis entitled "Comparative Study of Orphan and Non-Orphan Children: A Socio-Physiological and Nutritional Approach"



(Amit Bandyopadhyay)









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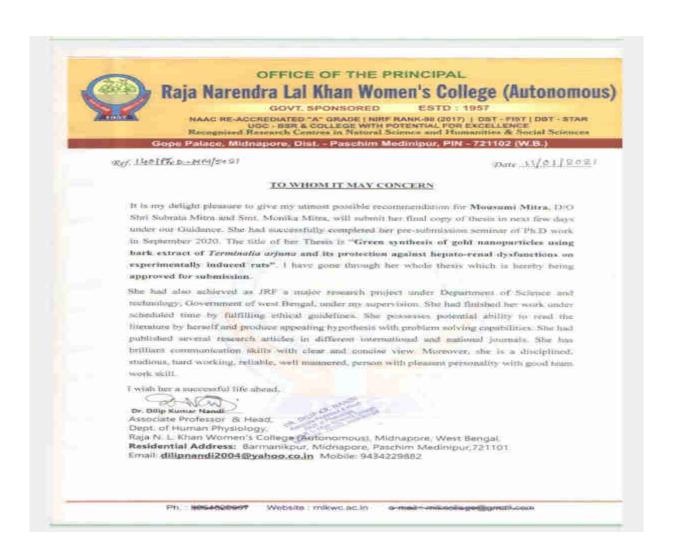
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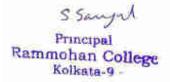
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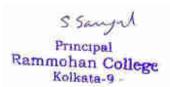
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ORIGINAL ARTICLE

TRENDS in Sport Sciences 2023, Micri 21-28 1904) (4.03829/F65.3033.303.)

Reference interval for oxidative stress markers in young football and hockey players

SURGIT SARKAR', SWAPAN KUMAR DEY', GOURIPROSAD DATTA', AMIT BANDYOPADHYAY'

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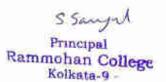
Introduction

Introduction

A researche-induced exclusive stress condition following a high-intensity training session was (i.e., secretic or raspet works) hypothesized to be metabolic, mechanical or both in nature during the importance or production for the intensity of intensi

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RESEARCH ARTHUL



International Journal of PHYSICAL EDUCATION, FITNESS AND SPORTS





Reference Interval of Muscle Damage Indices and Cortisol Young Athletes of Various Sports Discipline

Surojit Sarkar 1, Swapan Kumar Dey 2, Gouriprosed Datta 1, Amit Bandyopadhyay 3



- Department of Physiology, Ranvnohan College, 102,1, Raja Ram Mohan Sarani, Baithakkhana, Kolkata, West Bengal-700009, Department of Physiology, Ranvinohan College, 107,1, Raja Ram Mohan Sarani, Balthakkhana, Kolkata, West Bangai-700009, India
 Department of Sports Science, University of Calcutta, University Colleges of Science and Technology, 92, A.P.C. Road, Kolkata-700009, India
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 Corresponding author Email: https://doi.org/10.1001/j.j.university.com/

pre/10.34256/lip

Received: 18-03-2022, Revised: 1-05-2022; Accepted: 03-05-2022; Published: 09-05-2022

Abstract: Creatine kinase (CK), lactate dehydrogenase (LDH) and cortisol are widely accepted as biological markers. The purpose of the study was to frame the reference interval for muscle damage indices (CK, LDH) and cortisol in the young athletic population of various sports disciplines. 260 young male players (i.e., football (n=62), hockey (n=50), gymnastics (n=36), swimming (n=28), table tennis (n=25), sprint-jump-throw (n=36) and middle-long distance running (n=13)) were recruited for the study (mean age = 15.6±1.59 yrs). Assay of LDH, CK and cortisol was done using the standard enzymatic protocol. The reference interval was calculated by following the Clinical and Laboratory Standard Institute (CLSI) C28-A3 guideline and "MediCalic" software (version 19) with a 90% confidence interval. Serum LDH range was from 148.00-324.00 IU/L with a mean of 23.32±34.74 and a median around 236.25. Serum CK ranged from 17.00-43.50 IU/L with a mean of 28.93±5.23 IU/L and a median around 28.00. Cortisol ranged from 4.99-15.78 µg/dl with a mean of 9.31±2.09 µg/dl and a median around 8.90. The present study confers 165.63 - 303.43 IU/L, 19.00 - 40.09 IU/L and 6.07-14.15 µg/dl as the reference interval values for LDH, CK and cortisol, respectively. The present finding will guide the researchers to avoid misinterpretation of muscle damage indices values during any phase of competitive training of sports person.

Keywords: Reference Interval, Creatine Kinase, Lactate Dehydrogenase, Cortisol, Sports Discipline.



About the Authors

Mr. Surojit Sarkar has pursued both B.Sc (Physiology) in 2013 and M.Sc (Physiology) in 2015 from the University of Calcutta, India, and now he is pursuing a Ph.D. at the same university. Mr. Sarkar has also completed various courses, i.e., Workshop course on Statistics (from III, Kolkata) and Advance Proteomics course (from III, Kolkata) and Sarkar has experience working with many sophisticated high-end sports science techniques and molecular biology techniques. He is currently working as Physiologist Gd-III (Lead) at Sports Authority of India, He was awarded "National Fellowship in Sports' in 2016 under the Ministry of Youth Affairs and Sports (MYAS), Govt of India and conducted the Fellowship under the Sports Authority of India.

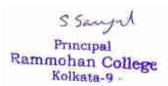


Dr. Swapan Kumar Dey, was the senior scientist of the Sports Authority of India (SAI). Presently, he is a visiting professor in the Department of Sports Science, University in 1979 and 1983, respectively, in Sports, Exercise and Cardio-respiratory Physiology. Dr. Dey has more than 35 years of research and 30 years of teaching experience in the field of Sports and Exercise Physiology at graduate and post graduate levels. He teaches Sports Anthroporetry and Sports Nutrition and Physiology to the students of various courses undertaken by SAI and post graduate physiology and sports science students. He is an active member of the Indian Science Congress Association, the Physiological Society of India and the Indian Association of Sports Medicine. He was attached as a Physiologist with the All India Football Federation (AIFF) of AFC's development program in India and a member of the India Physiologist Tederation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India and a member of the India Football Federation (AIFF) of AFC's development program in India AIFF.

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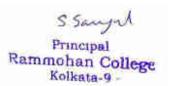
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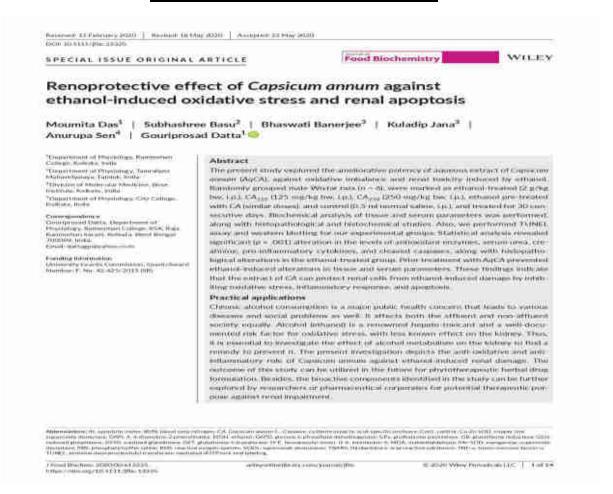
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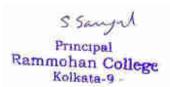
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Collaboration with Raja N L Khan Women's College and Department of Physiology, University of Calcutta, Kolkata



Protective Role of Green Synthesized Gold Nanoparticles Using Terminalia arjuna against Acetaminophen Induced Hematological Alterations in Male Wistar Rats

Monacom Miles*, Amit Bundyopethysy*, Gosirtaranad Datte* and Dille K Memil**
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Hackground: The present thaty aim to investigate on the characterization of green synthesized gold canopieda: (Audity), and 30 deskupte lebesther this harbid canopiedate aim indicated the although of barb for although hermitological soldies equired accelerations have reduced teachly introduced Wintermite.

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Results. The greet syldreston) A(\$80°s, were observed and by UV varietie signally accept, FESEM, HETEM EDX, FTM, AMD, DLS analysis, UV varietie signalinologies between BPR band of S24 cen. FESEM, HETEM and MED analysis resonant that green syndrestical ACM of the week apparture stagment syndresis in status. So and 40 cen. Secretarization analysis resonance S2 and 40 cen. Secretarization analysis resonance S2 and 40 cen. Secretarization analysis resonance in Dec Discot Cotto (MECs), Neccopolar (1995), Indiscotto Parkette S2 and 40 cen. Secretarization (SETM), Secretarization (S

Conclusions: Overall the resids highested the promoting effect of green synthesismed Autil's against many other meteod terminological attentions in main Minite rate.

Introduction

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Investigations in the area of green synthesis of gold computations come from plants [12] were first reported by Lindon-Torresdey and his are workers. Industrial research reports doministrated that several

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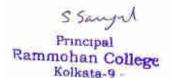
Introduction

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Received March 13, 2019; Accepted March 28, 2019; Published Accross 2019

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Collaboration with Sports Authority of India and Department of Physiology, University of Calcutta

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ORIGINAL SCIENTIFIC PAPER

Prediction of Athletic Performance through Nutrition Knowledge and Practice: A Cross-Sectional Study among Young Team Athletes

Monalisa Dehnath', Subhra Chatterjee², Amit Bandyopadhyay², Gouriprosad Datta² and Swapan Kumar Dey³ Department of Sports Science, Sports Authority of India, Salt Lake City, Kolkata, India, "Sports Authority of India, New Delhi, India, *University of Calcutta, University Colleges of Science and Technology, Sports and Exercise Physiology Laboratory, Department of Physiology, Romannehae College, Kolkata, India, "Sports Authority of India, Salt Lake City, Kolkata, "

Abstract

The present study was conducted to assess the nutrition knowledge, practice, and status and to identify the nutritional and body composition factors predicting athletes' performance. Young team athletes including 40 footballers and 50 hockey players were recruited in this study (age 16.48±1.5) to assess the nutrition knowledge (NK), nutrition practice (NP), and 24-hour dietary recall using a semi-structured questionnaire. Physical characteristics, including height, weight and body mass index (8MI), along with static strength- handgrip and relative back strength, were recorded. Fat mass (FM), fat-free mass (FFM), muscle mass (MM), basal metabolic rate (BMR) and glycogen store was determined using a bioelectrical impedance analyser. Aerobic capacity (VO,max) was measured with a beep test. The majority of the athletes with good NK scores were found to have good NF scores as well and vice versa (x2=23.861, p=0.000). Their mean recorded scores for NK and NP were found to be 11.13±3.6 and 7.30±2.0 out of a total of 20 and 12, respectively. Daily consumption of protein (β=0.336; p value=0.004), sodium (β=0.273; p value=0.006) and dietary fibre (β=0.220; p value=0.002) were found to be the best predictors for nutritional practice. Nutrition knowledge and practice had significant positive correlation with BMR (0.314***, 0.419***), calcium intrake (0.248***), iron intake (0.303***, 0.221*) and VO,max (0.331***, 0.428***), respectively. Daily cakoric consumption (β=0.144, p=0.029), BMR (β=0.304, p=0.001) were the significant predictors of athletic performance. Therefore, good nutrition knowledge may improve the nutritional habits and dietary pattern of athletes. Body composition and nutrient intake can predict athletic performance. Intervention studies should emphasize nutrition education aimling for improved athletic performance.

Key words: basal metabolic rate, bioelectrical impedance analysis, body composition, dietary pattern, perobic co

Introduction

Introduction

Optimal fuelling is an essential requisite for athletes to excel to their best ability (Maughan & Burke, 2011; Keriosick et al., 2008). Apart from nutrition playing an influential role in enhancing on-field performance; it also promotes muscle growth, prevents injury, accelerates recovery, and supports re-

habilitation (Mahan & Stimp, 1998). Undoubtedly, athletes' daily diet and fluid intake affect their health, body composition, and substrate availability during exercise as well as recovery time (American Dietetic Association, 2009). Adequate nutrition, which can be reached through sufficient nutrition knowledge (NK), is an integral part of a training programme

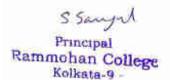


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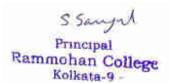
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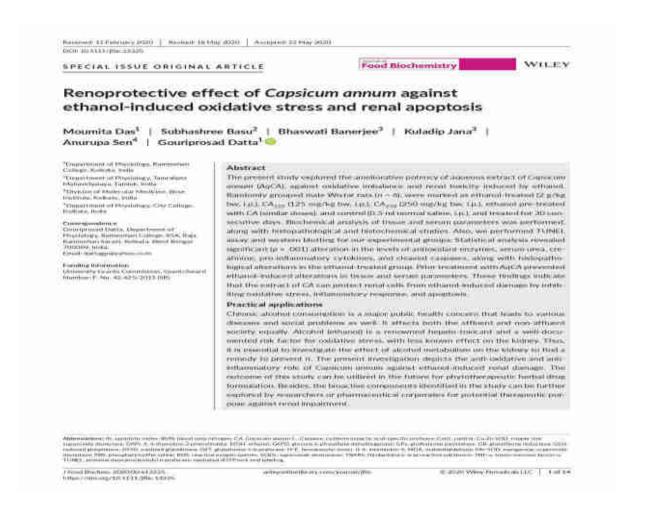
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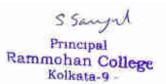
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Collaboration with Tamralipta Mahavidyalaya and City college, **Kolkata**

ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH



Print - 2455-2891 Research Article

PROTECTIVE ROLE OF CRUDE EXTRACT OF AMORPHOPHALLUS CAMPANULATUS AGAINST ETHANOL-INDUCED OXIDATIVE RENAL DAMAGE

SUBHASHREE BASU^{1,7}, MOUMITA DAS¹, ANURCIPA SEN³, GOURIPROSAD DATTA^{1,8}

Department of Physiology, Bannoohan College, 854, Raja Hamnohan Salast, Kolkata, West Sengal, India, 'Department of Physiology, Tamraligus Mahavidyslays, Curha Medinipur, West Bengal, India. 'Department of Physiology, Caty College, Uniati distagges yaliss.cr.in Brougest 19 April 2012 Brougefacial Accounts 12 Detailer 2012

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EXTRIBUTION

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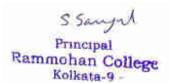
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Date_ 23 65 2023

To Whom It May Concern

This is to declare that Dr. Kaustav Dutta Chowdhury, Assistant Professor (Stage-II), Dept. of Zoology, Rammohan College, Kolkata, West Bengal, India, is doing collaborative research with my research group since 2018 on alteration in pulmonary tissues and its protection by Hexadecanoic acid, ethyl ester. The facilities of both institutions are utilized for this purpose.

The collaboration helps us to exchange our scientific idea/s. Till date, the association has produced 4 international paper/s in reputed journal/s.

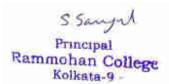
Dr. Pratip Chakraborty

Dr. Pratip Chakraborty Department of Assistant Reproduction

Department of Assisted Reproduction

Institute of Reproductive Medicine







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Biogeneur Biotechnology Research Communications Vol. 16 No. (4) Oct. Nov. Dec 2021

Biotechnological Communication

Effect of Calcium Carbide Exposure Through Inhalation in Lungs of Mus musculus

Soumi Banerjee¹⁰, Pujita Ghosh¹⁰, Debajyoti Patra¹, Pratip Chakraborty¹, Kaustav Dutta Chowdhury¹⁰

¹Cell and Molecular Biology Laboratory, Department of Zoology,

Rammohan College, Raja Rammohan Samni, Kolkata, India

Molecular Biology and Tissue Culture Laboratory, Post Graduate.

Department of Vidyanapar College, Vidyanagar College, Kolkata, India.

Department of Intertility, Institute of Reproductive Medicine, Kolkata, India.

ABSTRACT

Study on occupational injuries indicates the industrial exposure to air-pollutants, asthmagers, carninogens, and noise for extended hours as leading risk factors directing to death. This exposure generally occurs by inhalation, angestion, or via deruni contact. Our of which inhalation is the most rapid route of upuke through breathing in the air that is committed with particulate matter/dust, appares of volatile or semi-volatile commitments and seconds due to outdoor and indoor maturitial activities. Irritational long rightly, applying respiratory depression, buffycardia, pulmonary electric may develop all long-fanting systemic effects even after completion of the working life of a worker-Most occupational lung diseases are caused by repeated, long-term exposure. Therefore, our analysis conducted to analyze the effect of 40 days of chronic calcium embide exposure in a close chamber through inhalation in lung of Swim-albino macs. ALT, AST, SOD and catalase activities were estimated spectrophotometrically. Spectrofhormatric estimation was performed for reactive oxygen species determination. Flow cytometric analysis was performed to examine cell death and cell cycle. Pro-apoptotic and anti-apoptotic protein levels were estimated by immunoblot. Data demonstrated altered body homeostasis as marked by AST/ALT sensy. Sgn CaC, exposure indicated activation of anti-advantant enzymes, increased cell death and animal survivability. Sgn and significantly. Sgn CaC, exposure displayed aminoration enzymes were collapsed with increased cell death leading to probably maintenance of animal unrivivability to some-extent in the said group.

KEY WORDS: CACL CELL DEATH, LUNGS, MICE, ROS.

INTRODUCTION

Recent time witnessed an increase in respiratory distress the to environmental pollution. It festyle as well as occupational exposures. In this context, the lung is the most affected organ due to its delicate endothelial network being constantly involved in gaseous exchange with the environment. Report suggests that 4 in 20 people suffers from chronic respiratory diseases (CRDs) globally, attributing CRDs as the third leading cause of death in the world (Montazmanesh et al., 2019).

Amongst all other causes of CRDs, professional hazard (i.e.,breathing in chemicals, dust or noxious gases in

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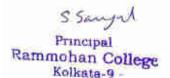
Occupational lung diseases may take a long time to develop and may have lasting effects on lungs even after the worker stops working. According to the World Health Organization (WHO). 125 million people worldwide are exposed to asbestos at work. According to global estimates, at least 90,000 people die each year from asbestosis, asbestosrelated lung cancer and mesothelioma (Chen et al., 2022). Despite all efforts to prevent silicosis, it still afflicts tens of millions of workers and kills thousands of people every year, all over the world (Hoy et al., 2022).

industrial zones), is the most overlooked and neglected one.

Calcium carbide (CBC,) also known as calcium acetylide being a source of acetyleine and other noxious gases is comidered as hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). It is mainly used to manufacture acetyleine and other industrial compounds. Pure CaC,

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Protective role of Decylubiquinone against secondary melanoma at lung in B16F10 induced mice by reducing E-cadherin expression and ameliorating ROCKII-Limk1/2-Cofiliin mediated metastasis



Sujan Chatterjee ", Debajyoti Patra ", Pujita Ghosh ", Soumi Banerjee ", Snehasis Mishra ", Pratip Chakrabotty ", Kaustav Dutta Chowdhury ", Anupum Basu ", Gobinda Chandra Sadhukhan "

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1. Introduction

Melanoum is reparted in one of the virident dermutological cancer [13]. According to GLOB-CAN 2020, this final disease was responsible for 57,343 deaths and in nost cases prematatic spreading is responsible for the same [12]. Now a doys, only 15% patients with distant menutaris were analysis of the price of the same [13]. Thus, indulations of usetastacts (a the main key for improving melanous related

survivability.

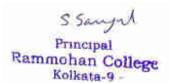
survivability.

Menoritade is a multi-step process involving epithelial to meserchymal transition (EMT), has of cell adherion and dissiving ECM via metallopcotous activity leading to extravasation [24]. Fellowing extravasation from a primary tenore, magnifing emeses cells invade into local as well as distant organ, easy our mesenthymal spithelial transi-tion (AMT) and finally prediferant to generate new meintatric transic [41]. Studies on breest comes pulmammy metastants also suggested

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Activity of ROCKII not ROCKI promotes pulmonary metastasis of melanoma cells via modulating Smad2/3-MMP9 and FAK-Src-VEGF signalling



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Rho associated oxided-coal limine (ROCIO) inhibition decreases tumous genic growth, proliferation and magio-generist. Multifacteral evidences are these about the rule of ROCIO in cancer progression, but indoors specific analysis in ascontistry pulmonauty minimums is mill smalthreased. This study suploced the operating function of ROCIO in the anomatosis of BROFIO indee melanoms cell line habitation by IRO-OII indicated that wielding ride of ROCIO in it is muscinted with the regulation of MMPP activity responsible for extra-cellular montis (RCM) depradation as well as suggestern invasion as one effect of Sic-PAR-STATA intermedian lepton without, We found the astiming role of ROCIO, now ROCIO in modesa localization of Smalt that effectively invested MMPP expression and next say (p. 0,011). This cleaved the protein components of EOA releasely played a crucial role in taspes remodeling at secondary site during establishment of metastatic tensors. ROCIO phosphocyforlou at Serl ¹⁸⁶⁸ in an an internation of this same was impairated executal for unoperation observation in the consequence of intensity includes the property of the contract of the extraordistic matrix degradation as a consequence of intensity Direct correlation of pROCIO/Bert¹⁸⁶⁸ with MMP9 as well as VROCI expressions in a reconsequence of intensity the importance of cROCIO/Bert¹⁸⁶⁸ with MMP9 as well as VROCI expression in a reconstructive condensative segmenting ROCIO/Bert¹⁸⁶⁸ in a possible to age to secondary long causes operation, and metastative segmenting ROCIO/Bert¹⁸⁶⁸ in a possible target for the treatment of secondary long causes operating in actualistic segmenting ROCIO/Bert¹⁸⁶⁸.

1. Introduction

Melanoms is a type of cutaneous neoplasis which is originated from the paguean-producing cells known as melanocytes [11]. Disease pri-matily develops in the shin but may rarely occus in the neas, eyes and sometimes inside the body such as its the mouth, throat even in the in-testine [2]. It is known for its aggressive nature with a local chance of prognosis until immost become mentius and metastacias at variety of stypical locations [2]. Median overall survived of malignant melanoma

(MM) is only 5.3 months and the mean survival is 9.2 months [3].

(MM) is only 5.3 months and the mean survival is 9.2 months [5]. Clinical studies identify long as the most common mentative site [18-3888] for melanoma [4] and only 5-19% of putterns are generally survived after free years of diagnosis [3].

Mailganut melanomen at long results fauther complications since the prophecy of long cancer is poor due to its sayingtometric nature at the initial phase [5]. In fact, the symptoms are often mistalon with infection a effect of smaking, which further delays diagnosis. Therefine, napparity of metanantic long melanoms cames are diagnosed at either stage III or IV.

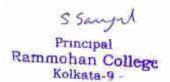
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Combinational Impact of Chelerythrine and S-Allyl Cystine on Metastasis melanoma of liver: An In vivo Analysis

Sujan Chatterjee!, Debajyoti Patra!, Pujita Ghosh!, Soumi Banerjee!, Pratip Chakraborty!, Sujan Chatterjee!, Debajyoti Patra!, Pujita Ghosh!, Soumi Banerjee!, Pratip Cha Kaustav Dutta Chowdhury!, Anupam Basu! and Gobinda Chandra Sadhukhan! Molecular Biology and Tissue Culture Laboratory, Fixil Graduate Eppartment of Zoology, Vilivosugar College, Kolkata, India.

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Mestatas inclination, the highly fatal and agreeably disease, has yet to any effectual remedies. Several evidences suggested delicate responsibility of oxidative/cytorusic stress in the modulation of funne nucroenviruoment leading to metastons. Therefore, conditioning of reactive sexygen species in tumour and as odjacent arens may play a guardian role for restricting meastatic melanoma. Well-linown active blacomposites like S-allyl Cysteine and Chelerythiniae as nonrossic dictary phytochemicals are recently documented as potential anni-funnosingenic and anti-milanomatory therapetatical but their role in meastative melanoma still remains charter. Therefore, present study was carried out to investigate the efficacy of S-allyl Cysteine and Chelerythiniae against inctastasic reclamma to the liepatic tissue. Status of liver function was estimated by performing ALT, AST, GUT and ALKP assay, ROS accumulation was determined by estimating the obserted DCF thursescence in hepatic tissue lysales. GSH and TBARS content were measured as a marker of anti-oxidant and cytotoxicity level after the treatment. Analysis on the marker proteins like Caspases, Cytochromes C, IlCl, Bax, VEGF, MMP9 and NF-sp depicted the triggering of p-p50 moderar translocation and significant increase in Bax expression that in-turn induced Cytochromes C-aspassed apoption acts after drog administration. Data also illustrated notable reduction in tumor nodales at fiver along with normalization of liver function as demarkated by the level of biomackers in the treated groups. Restoration of engineers and main-encryonatic anti-oxidants as well as suppression of VEGF and MMP9 expression as an effect of internated NFAb marker localization by S-allyl Cysteine and Chelerythine further remarkeling as well as angiogenesis, two major prerequisites for metastasis. Combinatorial attentionary administration of p51 through its phosphorylation, that can be considered as nature directives for the development of novel remedial strategy against metastatic through its phosphorylation, that can be considered as fifture directives for the development of novel remedial strategy against metastatic

KEY WORDS: METASTATIC MELANOMA, ROS, ANTIOXIDANT, S-ALLYL CYSTEINE, CHELERYTHIUNE.

Turnsponding Author: suthakhan g.: Ognadisem Reviwal Sik Der 2000 Acrophel after tenisian 3 Vol March 2003 Print ISSN: 0974-8455 Online ISSN: 2321-4007 CODEN: BRICHA

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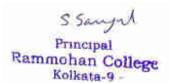
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INTRODUCTION

Melanoma, a predominant skin cancer, originates from melanocyte. Surgical removal followed by popular therapies with chemo/radiation-based drugs can cure primary melanomas. Due to its high aggressive nature and lack of complete effective therapeutic strategy, it can able to metastasize into local as well as distant organ following invasion and this in turn reduces the chances

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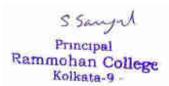
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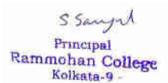
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Collaboration with Ramakrishna Mission Sikahanamandira, Belur Math, Howrah

Dr. Abhijit Guha Associate Professor in Education Ramakrisha Mixtion Sikahanamandira Belur Math, Howrah - 711202, WH Email: abbi.gubar-Sagomail.com Ref _____ To Whom It May Concern This is to certify that Dr. Madhab Ghosh, Assistant Professor, Department of Education, Rammohan College, Kolkata-700009, West Bengal is doing collaborative research work with my research activities since August, 2017 under the broad area of 'Education'. The facilities of both institutions are utilized for this purpose. The collaboration helps us to exchange our educational ideas. Till date, the collaboration has produced one M.Phil. Dissertation (jointly supervised) under Ramakrishna Mission Sikshanamandira, Belur Math, Howrah-711202 and two research articles published in UGC listed Journal and edited book. The collaboration has yielded satisfactory results and in the near future we look forward to have positive outcomes using the institutional facilities available.







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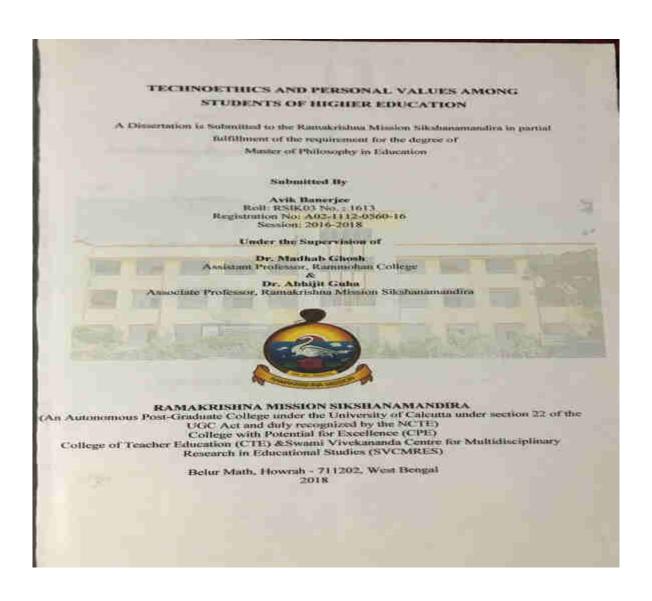
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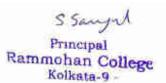
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Functioning of School Management Committee (SMC) in Gangtok, Sikkim

MADHAB GHOSH' & ABHUIT GUHA!

Department of Education, Rammohan College, Kolkata, India

Ramakrishna Mission Sikahanamandira, Belur Math, India

Abstract: School Management Committee (SMC) means The Committee managing the school it is necessary for a school to have a School Management Committee. The SMC play together representatives of different stakeholders, it lays the groundwork for broadened and shared decision-making. The new relationship between feachers and community has to be structure of SMC in schools located in Ganglok city, intends to explore the role of SMCs in Elementary level government schools pertaining to the different aspects under investigation, like academic, non-academic and dovelopment of physical infrastructures, and to ascertain whether school management committee is functioning in accordance to the guidelines laid teachers were randomly selected from elementary level of schools in Ganglok city. The self-developed questionnaire was adopted for the study. SO developed questionnaire was adopted for the study, interview schedule for headmaster, other teachers and documentary smallysis techniques was adopted for the study. The investigator collected data through interview with the Headmaster and other trachers. Data were analysed by using qualitative data analysis techniques. The major findings included the SMC involvement in enrollment, holding PTA's MTA meetings to know the causes of absence of children and pursuing them for attendance. Supervised MDM system in the schools, encouraged brilliant students for study with financial assistance, convened meeting to discuss and resolve issues of the schools both academic and non-academic with head and teachers for developing awareness in the in the community for smoothed functioning of the schools along with non-academic activities of prominent days celebration weeks and other developmental activities related to infrastructures, teaching-learning practice and innovative practices.

Keywords: SMC, RTE Act 2009, PTA, MTA, MDM

Keywords: SMC, RTE Act 2009, PTA, MTA, MDM

"Destiny of India is being shaped in her classrooms" - Kotharl Commission (1964-66)

Article 21(A) of the Right of Children to Free and Compulsory Act, 2009 (RTE-2009) enunciates the constitution of school management committee in every school, other than unaided school and reconstituted in every two years period. The Right to Education Act envisions the school management committee as the basis unit of a decentralized model of governance with active involvement of parents in the schools functioning. SMCs are primarily composed of parents, teachers, head teachers and local authorities. Active parental participation has the potential and the capability to improve the efficiency of a school as parents have the highest incentive to demand a better quality of education for their children.

The school management committee plans, monitors and implements SSA schemes as per the RTE Act of 2009. A school management committee shall be constituted in the per school, other than unaided school, within its jurisdiction and reconstituted in the period of the perio very two years. The composition of school management committee as prescribed

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ROLE OF HIGHER EDUCATION FOR HUMAN RIGHTS AND NATIONAL VALUES IN 21ST CENTURY

Dr. Abhijit Guha Associate Professor

Dr. Madhab Ghosh Aust, Professor, Department of Education Ramminan College, Kolkata

. Abstract :

All non are been tree and equal in dignity and rights. Everyone has a state for each sounds. Equally among humans necessarily implies night of each leafer-shad. Right to bee with dignity is the fundamental right of each leafer-shad. Right to bee with dignity is the fundamental rights and Darective of the Influence of the Universal Declaration of blank leafer of the Arman Pupils are the articulated and terms of error of dignity and rights for all human individuals. Human Rights are the articulated and terms of error of dignity and rights for all human individuals. Human Rights are exceeded by three of his fine been a human height present on the same of the content of the co

Education and Society: A Brander Outlook

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· Introduction :

Education is one of the most potent means to spread the memage of human rights and to ensure that corresponding change in attitude and volues are beought about to ensure a long term impact. Fitting rights education provides feworable conditions to enable human dignity to reach its holistic views. Development of human personality helps the ministration provides reviewed by the city which power the way and contributes a lot to preventing human rights violation.

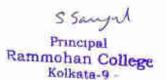
may and contributes a lot to preventing human rights violation. There are two main aspects to the relationship between human rights and education in one sense the denial of education has in itself some to be seen as the violation of a basic human right and a synonym for discriptivement. The office has to do with the content of the curriculum; and the extent to which it possesses a human rights' orientation. As to the first, hundreds of millions are still denied this right and remain illinorate within South Asia, accounting for the largest number in any single region in the world. But, a matter of equal concern is the content of the curriculum that most of these despute being lucky mough to get an 'Adscatton'.

According to Amartya Sen. ... there to need to pay attention to the narrowing of horizons, especially of children, that illiberal and intilerant adjustion can produce. ... Indeed, the nature of education is quite central to prace in the world... every human heing a identities have many different components, related to nationality, language, location, claus, compation, history, religion, political beliefs, and no on. A hanglade in human is not only a Muslim, but also a Bengali and possibly quite proud of the richness of the Bengali literature and other cultural schlevements. Similarly, the history of the Arab world with which an Arab child today can potentially relate is not only the achievements of lalam (important as they are), but also the great social accompishments mathematics, science and literature which are part and parcel of Arab lintery. Even today when a scientist in say, the imperial College uses an algorithm, be or she unconsciously orlehrates the innovativeness of the minh-century Arab mathematician, Al-Khwarizmi, from whose name the term algorithm in derived (the term "algebra" comes from his book, Al Jubr wa-al-Muqabilah" (Sen, Oct 28, 2003).

* What are Human Rights?

Civil And Pulitical Rights-Those are all liberty criented rights including the rights to: site, liberty and security of the individual anglish found a family rights to a fair trial, insedem from forture and slavery political participation, freedom of opinion and







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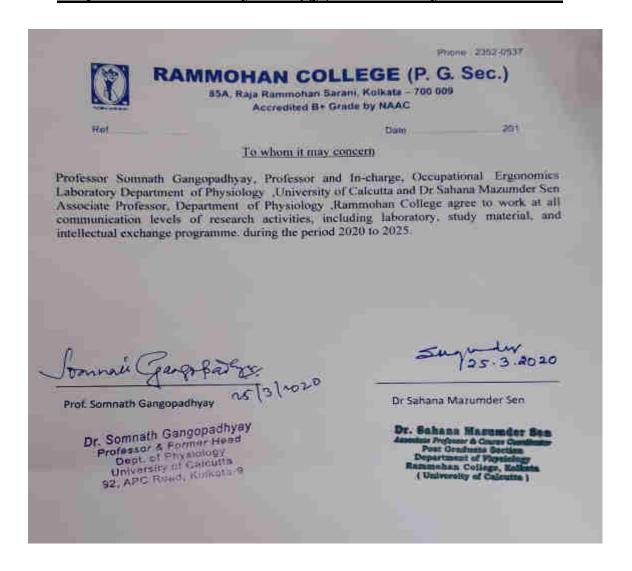
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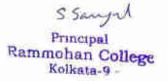
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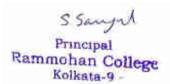
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Study of Haemoglobin Level and Tumour Growth on Mouse Ascites Tumour in Study of Haemoglobin Level and Aumotir Growth on Mouse Ascites Tumour-Response to Combination Effect of 2-Methoxyestradiol and Cyclophosphamide Sewhantha Malliek ", Samarendar Nash Banerjee", Gentam Paul "
Department of Zeolegy, Harmohan College, 192/1, Raja Ramonhan Sarani, Kulkata – 700009, India
"Department of Physiology, University of Kalyani, Kalyani, Nadia, West Bengal, India

Driginal Research Article

Article History Received: 19.01.2018 Accepted: 29.01.2018 Published: 13.02.2018

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Abstrost: 5-120 tumour bearing mice were subjected to 2-Methexyentration (2ME) and Cyclophorphomide (CP) monutherapy and 2ME and CP combination therapy on 2° day of access humans cell transplantation when the tumour growth was at log phone. Then, the effect has been studied on basi's system in respect to dead cell—living cell frequency, tumour wolune, humanoglobin personning, and differential count of WBC. In 2ME and CP combination through, a study increase in the dead sell or of WBC. In 2ME and cell control which is a study decrease in timour volume, hammolobing decrease in timour volume, and before the control of the dead sell or produce of the dead sell or the dead sell or control of the dead sell or the dea

INTRODUCTION

Cancer, is a complex multirage genutic disease in which a group of normal cults transforms this outsatele multimate cults. At present, surgery, radiation therapy and abstractifectry are common methods of cheer treatment. Attenny, these shemotherapy has because much popular due to some reasons. Firstly, it prayents cell profileration by interfering with their ability to replicate DNA and secondly, it can induce apoptosis in unnormal cults.

But this type of freatment has some toxic side effects on normal cells. Many chemotherapeutle agnetis may induce cytological absorpmalities (i.e. almorresomal absernations) as well as haematological absorpmalities. Use of combination treatment is a novel iden to treatment combines of a combination treatment is a novel iden to treatment of the combination may protect the boat from some undestrable officets. In the present study, 2-Methoxyestradiol (2ME) as maisangiogenic, anti-neoplastic (5-10) agent has been used in combination with an alkylating anti-tumour drug cyclophosphamide (CP). CP has been used in different concer patient as monotherapy and combination therapy [11-12]. Different types of cytological effects of 2ME and CP have been reported in different animal tumous model system during the period of treatment has not been studied yet. So, the present study has been oriented to find out the effect of monotherapy of 2ME. and CP and combination therapy of 2ME and CP at liaurantological level during the course of treatment using Sarcomat 80 tumour bearing mouse.

MATERIALS AND METHODS

Experimental animal

Swims Alkino adult raice (After muscadus) with
an overage body weight of 20g were grouped and
haumed in normal laboratory condition for neitheathraidion at 24° 25°C temperatures. Mice were
provided standard mice food and water ait libitum.

Selection of unimal tumour model

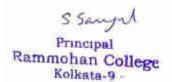
Sarcona (BD (8-180), a well-known
transplantable tumour, was maintained intraperioneasily
in Swiss albino mine (1 a 10 cells/ animal). All
experiments were done in accordance to the goldeline
of Institutional Animal Ethics Committee (IAEC).

S-180 tumour transplantation

Feeshly aspirated S-150 tumour cells were diluted with 6.9% normal saline under sterile condition and were injected intraperitoneally to normal mise for induction of sactic tumour [14-15] for parasing our capacitances.

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Provisional Ph.D. Certificate

No. Ph.D./Physic./SM/012(30)/2018

December 19, 2015

This is to certify that on the recommendation of the Board of Examiners, the thesis submitted by Smt. Srabantika Mallick, for the award of Ph.D. Degree of this University and on the performance of his/her Ph.D. Open Viva vide Reg.13 (D.D.) & Reg. 14 (D.D.) (as per Regulation 2016, K.U.), he/she has been admitted to the aforesaid degree on 13.12.2018 in Physiology under the faculty of Science.

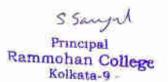
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Title of the Thesis:
"ANTIANGLOGENIC THERAPY FOR TREATMENT OF CANCER: EFFECT OF 2 METHOXYESTRADIOL DA
COMBINATION WITH CYCLOPHOSPHAMIDE ON EXPERIMENTAL TUMOUR GROWTH IN MOUSE"

His/Her Degree will be conferred by the Hon'ble Chancellor at the next Convocation of this University.









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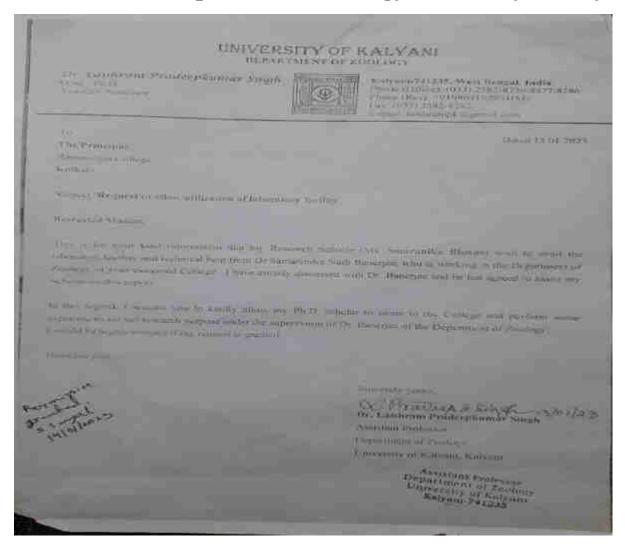
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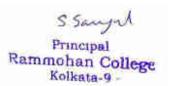
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Collaboration with Department of Zoology, University of Kalyani









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Date: 16.08, 2023

To Whom It May Concern

This is to declare that Dr. Samik Acharjee, Assistant Professor, Department of Zoology, Rammohan College, Kolkata, West Bengal, India is doing collaborative research with my research group since 2022 on Biodiversity conservation and Proteomics studies in different freshwater fishes. The facilities of both institutions are utilized for this purpose.

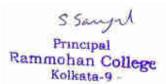
The collaboration helps us to exchange our scientific idea/s. Till date, the association has produced 1 research paper in reputed journal.

AL 16.08.2023

Dipak Das Assistant Professor Department of Zoology Ramkrishna Mahavidyalaya Kailashahar, Unakoti, Tripura

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Research Article

Ethnomedicinal Knowledge of Bishnupriya Manipuri Community of Unakoti District of Tripura, North East



Swart Smha[†], Prasenju Sinha[‡], Samik Achagee[‡], Dipak Das^{‡‡}

*(Department of Zeology, Brook) whom Violandeships, Endochdor, Dynon, India (Department of Bosony, Bandrudhor/Abbardyahaps, Endochdor, Trippin, India (Department of Zeology, Biomerblen College, Kelbah, Ukir, Bengal, India)

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Keyworks Effice medicine: Eindleigolfic Biolomyrica Manapuri, COVID 19, Tripiara

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The present study deals with indigenests attachmental tenewholgs, of the tenephysis Maurpuri community of Unakodi distinct of Tripura, Northeast India The clima indicated exploration reveals the usage of Atthewn Northeast India The clima particular corrections that has red blass discurrented till date. The study comprises of 15 plants and that species crised at a preparation locality teners as Thinlingfull that a usual sean as solicity grinning transmit in some fluoration of the financial control of the property of appearance of the neverty of appearance of the several of the property of the propert

1. Introduction

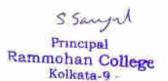
1. Introduction

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Over the time, the community has gathered knowledge of additing the east flora deveraity found in the region and once different attents betainful plants as marketines bessed in their belief and practices in conting thesises and allocate. The community still perfect teaching and practices in community at the period continuous methods are not belief and practices in the section of the section of the section below and whether the belief continuous teaching and whether minorchandly in relieving community relief the belief concerned etc. The objective of the study in the services and understand the use of her ball (second-incominated etc.) in the section of the study in the services and understand the use of her ball (second-incominated etc.) in the section of the literal property of the study in the section of the scalable with respect to it no lay. The use of this concerns in honorwest dedication are defined which is present. This influence is the scalable with respect to it no lay. The transitional contention in allocate in the controlled would add has not been under utady. Also, the plants used in this concentration have my been studied and proposed in the section of the half of the scalable and the half of the section of the half of the section of the half of the scalable incompounds in the community in the half of the section of the

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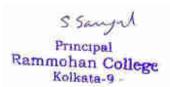
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29.07.2023

To Whom It May Concern

This is to declare that Dr. Samiran Mondal, Assistant Professor (Stage-II), Dept. of Chemistry, Rammohan College, Kolkata, West Bengal, India, and I, Dr. Naznin Ara Begum, Associate Professor, Dept. of Chemistry, Siksha-Bhavana, Visva-Bharati (A central University) are doing collaborative research on small-molecule-based drug development. The facilities of both institutions are utilized for this purpose. This collaboration helps us to exchange our scientific knowledge and expertise. This is highly important as it helps us understand small molecules' molecular functioning as drugs for cancer and other fatal diseases. Thus our collaborative endeavour will be noteworthy in the future in the field of Cancer Biology/Chemical Biology.

Mayon Am Begun

Dr. Naznin Ara Begum

Associate Professor, Dept. of Chemistry, Siksha-Bhavana, Visya-Bharati (Central University), Santiniketan-731235, WB, INDIA

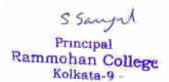
Mobile: +91 94 34431810

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Email: naznin begum@visva-bharati.ac.in/nazninab@gmail.com

Dr. Mazzan Ara Begun Associate Prototoxy Dept. of Chemistry, Vision-Burning Baromestan (2) 225, WD, Prices







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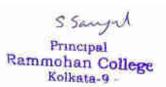
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RESEARCH ARTICLE		7.55.55.55.55.55.55.55.55.55.55.55.55.55	
Curry Leaf an		ntial: A Systematic Study to Enhance	
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	Trea-Bharan (Canoni Camerana, San	(9), Smithikenn 721-235, WB, India; *Department of millenn 231-233, WB, India; *Department of Chemistry;	
	and pertolency other (60-80oC), entry	is a systematic anody on the automidant activity of the multimus) into CMIC and PEC respectively), of Surry leaves (Murrey's long various into the absenced another).	
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tory of use in the trader including India [1] Loca sources. like fruits and is no these are low-cond, off	our medicine of various countries. Bly available and edible ploub-based offs vegetables are thus note-worthy octive and have animum about effects.	musi-turnames, anti-viral, anti-inflammatory, anti-viravallanat, directic mid anti-ecoloni activities [5]. Curry leaves are consistent from the faulting mornidicinal plant mel faultan array leaf plant (estimatific numer Marcoyce Society). Spreng. Bandly: Randome). It is usuall tempted tree, widely subtracted in factio and is faunties for in aromatic leaves (commonly known as Curry leaves).	
and condingent. Morenys of these leaves in the In-	ely used in Indian custine as space it; diere is a long history of the noe dian traditional medicine [5]. These sammeningical services, such as	Curry leaves have been identified as righ sources of poly- phenolisis (e.g. myvecetin-3-galactos-de, queriorin-3-entima- side, queriorin-3-glaccodde, knemphreol-3-0-2-effecydata, 5- caffecyd-quinic seid, tunnic seid, gallic seid, caffeir acid, rimannic acid, influorprine acid, fichiric acid and venille mid- er 3, five autito seids, contracole sidsalonds, flavonode mid-	
Tel - my dram Shanki Stance	ner melians at the Department of Chemically very), Sectionbeton 741 2+2 WH, India strepphint/grand-year and Department of	terpensids [5]. Leaves of these plants are the richest sources of carburole alkaloids (e.g. mahmimhine, koenigine en.) [5].	
Table National Process Community of the Control of	Histori (Carroll University), historikation handajayatti, pun. 198 346528(200 dumin nelin.	Agraems extract of Curry lawses and the rathurals alkalends moletod from these leaves thow large-topological activity, hypoglycomic activity along with anticotians activity	
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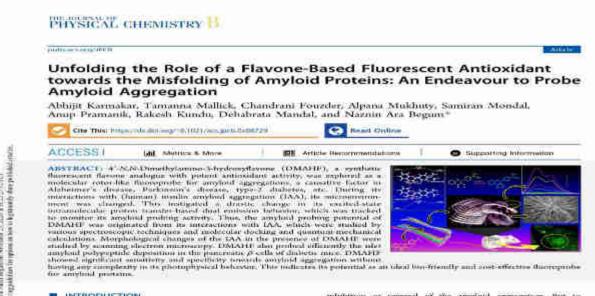
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INTRODUCTION

Amylord aggregation has long been suspected as a major key factor in various mentable neares degenerative and enclabelle diseases, for example, Aldebrine's diseases, fractions is diseases, Yapu-3 disbertes, see. Amylords represent a broad stace of gratefules having maintain permany suspective similarity that can self-assemble into ff-sheet-sich un-broached dibrillar structures, which are termed as accolored plaques, fibrillar structures, which are the semiple as accolored plaques, fibrillar structures, which are the semiple as accolored plaques, fibrillar structures, which are the semiple of plaques, fibrillar structures, which are the semiple of plaques of the semiple of the amylorid plaques, fibrillar structures, the semipled fibrillar structures are struggling to shed laght on the polymental semiple (1APP or simple) and responsible (1CO) are susceinable with type 3 diabetes and Parkinson's disease, respectively.

Newsaldys, researchers are struggling to shed laght on the crisings of the amylorid agreement attacked and all seminable structure and difficulty in majoristic diseases. The common behind the means allowed diseases in the amylorid structure and difficulty in majorist many in the complete many in the complete amyloride structure and difficulty in majorist and theorems, behind the forcement disconnect behinding the majorist amounts are disconnected by the disconnected place to the disconnected disconnected interactions and therefore are forcemently help to an disconnected by the disconnected place that the security is the amplitude amounts and difficulty in majoristic fibraction can disconnect be disconnected by the disconnected by the accomplication of the security of the amplitude are accomply help to an except the alternative and therefore can force on the accomplication of the security of the amplitude are accomplished and the security of the accomplished place and the accomplished places ar

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(Figure 1).

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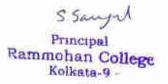
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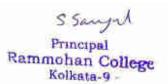
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Virology



Exploring the efficacy of naturally occurring biflavone based antioxidants towards the inhibition of the SARS-CoV-2 spike glycoprotein mediated membrane fusion



Samiran Mondal **, Abhijit Karmakar *, Tamanna Mallick *, Naznin Ara Begum *

* Inguistion of Chemistry, Homendair Codings, 1927 February Institution George & State, Tale * Impuriture of Chemistry, Visco Physiol (Crisis) University Committee, 277-278, make

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By the end of 2019, eclenties came to know about a royal Carona virus. SARS-CAV-2 [Severe Arate Respiratory Syndrome-Corona virus-2) causing COVID-19 (Corona Virus Discase-19). This initially affected people of Wishan city of China, Laire, this virus because the rest range of deaths and material affecting of millions of people accusal the globe due to the varsavalidability of specific medicines can the upward articles are the appearance.

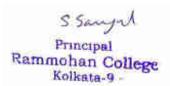
deaths and introld miffeelings of millions of people accutad the globe due to the transvallability of specific model and continuous attentions of the uniquents strengths.

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December 2000, Registed in investigation 20 January 2021, Assessed 26 January 2021
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Accepted 26 January 2021
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Contents lists available at 5-111-0

Journal of Molecular Structure

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Understanding the Role of Flavonoid Based Small Molecules in Modulating the Oncogenic Protein-Protein Interactions: A Quest for Therapeutic Arsenal



Abhijit Karmakar", Tamanna Mallick", Chandrant Fouzder", Alpana Mukhuty", Samiran Mondal', Rakesh Kundu', Naznin Ara Begum

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ARTICLS INFO

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1. Introduction

The eliminary army of protein-protein interactions (PPAs) greatly influences a toroid spectrum of what biomylical processes indiapensariate for the servical of Dram, impurisons [1-3]. However, the discussion for the PPI betwark is the rost cause of many humanical discussion of the PPI betwark is the rost cause of many humanical discussion and modulation, i.e. efficie inhibitions of daily arms of the abertast PPAs and associated transcriptions factors that registrate the apparing carcades [2-4]. we excend to go developing efficient artistances the apparent with lenser side effects. The invarion sholds minute 2 (MMMA) gone energies a negative registance of the factors improves protein 52 (p53) that plays a fraction material artist in registrating the (ett cycle, appoint certificate ideath DSA repair emethanism, and innears immonity [8, p63) is the master registrate of several cellular signating pathwists, and if also circular artistances registrate of several cellular signating pathwists, and if also circular artistances employed the generates a benefitial artistance effect rowards the generative DSA dairuge [9]. Jumps artistances of the target of the instruction in although the content of the instruction of the factors of further artistances are including constant-cell lung cancer (MSCLC), due to its

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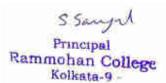
mustion or deletion (b. 11), there, it is noteworthy that long cancer is the most fistal and critical factor of cancer-related deaths would wide [12]. Therefore, PPIs mustions MDM2 and p53 are among the most windery include away of cancer research.

MIMAL effectively impresses the p53 arrivity firmings the most windery include away of cancer research.

MIMAL effectively impresses the p53 arrivity firmings three mocharpmus. Presty, MDM3 including its p53 at the trains excitations dornoin blocks the p53 transcription activity. Secondly, MDM2 can promise the nuclear expert of p53, and lantly, MDM2 cats as an 63 obspirint ligase triggeoing the pavirence ciefficated degradation of p53 the 12. Therefore, the maintenance and revival of the function of p53 with immittaneous industries in the MIMAL activities are emerging as permissing the sequence the maintenance and revival of the function of p13 and p13 with inside the developing of fective anti-cancer disagn [18].

Nowardays, many perces of research am carried out to shed light on the therapeuric potentials of small molecules revaries the modulations of estaceribility. P91s, for all mentions are being entenancelly explained as PPI productation whose to their (a) delity to brind to a pacetic bio-charge eng. protein or micelei cald, and altering its function (ii) access to a work range of organic world bight estaces cannot be accordary to the potential middle and altering its function effects and active site-spectricity (iv) antily to modulate midtigle rangers almost excending meaning mail molecules with policies.







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Collaboration with Chittaranjan National Cancer Institute



Chittaranjan National Cancer Institute
(An Automotisus Body ander Ministry of Health
and, Faimily Welfare, Government of India)
37, S.P. Mukherjee Road, Kolkuta -700/26
Phone: 2475-9313: 2476-5101, Far: 2475-7606
Website: www.cnut.org/in
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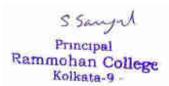
This is to declare that I, Dr. Arpita Chandra working as Senior Scientific Officer in the department of In Vitro Carcinogenesis and Cellular Chemotherapy of Chittaranjan National Cancer Institute, Kolkata-700026, West Bengal and Dr. Samiran Mondal, Assistant Professor (Stage-II), of Department of Chemistry, Rammohan College, Kolkata-700009, West Bengal, are doing collaborative research on small-molecule-based drug development in the project entitled "Modulating protein-protein interactions by small molecules: A quest for novel cancer theranostics". The facilities of both the institute are utilized for the purpose. This collaboration helps us to exchange our scientific knowledge and expertise. This is highly important as it helps us to understand small molecules' molecular functioning as drugs various fatal diseases including cancer. Thus, our collaborative endeavour will be noteworthy in the future in the field of Cancer Biology/Chemical Biology.

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(Dr. Arpita Chandra)

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Collaboration with Post Graduate Department of Biotechnology, St. Xavier's College





30, Stothey Teress Serior Kelkata - 700 01n Phone : 2287-7278 : 2255-1207 Fra : 033-2280-1927

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

Dr. Sayak Ganguli Axiliana Professor Post Graduate Department of Histochnology St. Xivier v College (Antonamont) Edham (700016

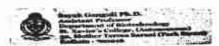
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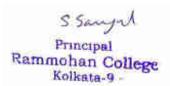
This is to state that my lab is in active collaboration with Dr. Santi Ranjan Dey and his group at Rammohan College, Kolkats and we are currently working on the following aspects:

- Digital Key and database development for Neuroptera.
- 2. Mango Germplasm conservation using metagenomics approaches.
- 3. Computational Analysis of viral genomes having direct impact on crop yield. Till date, the collaboration has yielded satisfactory results and in the near future we look forward to more fruitful outcomes using the institutional facilities available

Date: 15th July 2023









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IN SEARCH OF CONSERVED RNA MOTIFS OF DENGUE GENOME OF ALL SEROTYPE: A BIOINFORMATIC APPROACH

Meghna Saha¹, Sayak Ganguli², Sanjay Kumar Paul² Rayan Das^e and Santi Ranjan Dey^e

Block Epidemiologist Officer, Thirgram, West Benant¹

Assistant Professor, Post Graduate Department of Biericchurdugy, St Navier's College, Keikata' Assistant Professor, Department of Zoology, Rammolain College, Keikata's Guest Lecturer, Post Graduate Department of Zoology, Assisosh College'

Abstract: RNA virings due small genomes that contain information in both their cost acquiraces and higher arrives to blanck religious a collection and emocarsige their circle circle in by identifying particular acquiraces that the content of the

Key Words: Dengue, RNA, Secotype, RNA-mottf, Dengue-protein

L INTRODUCTION

A wide range of living things, including bacteria, plants, and minude, can become infacted by viruses, which are little agents. The designs virus is an ultra microscopia samily that can analy emplicate mode a boot organism. The family Plantscaled genus Plays and contains the designs viruses. This genus contains the same viruses that genus plays are contained to designs viruses. This genus contains as watery of additional viruses that cause human infactions and are quiest by ticks and waveguintees in addition to the designs virus. Veloce fever, West Nile. Japanuses encryphalitie, and take-boom encephality viruses are all classified as flavorities. REN KINUBA and SUSUMU IROTAA docesvered the designs virus in 1943.

These two researchers were looking at blood samples taken from patients in Nagasaki. Japan, during the 1945 designs epidentic. A year later, the designs virus was separately included by Albert B. Saltin and Walter Schlesinger. The virus that is now known as designs virus 1 (LEE-1) had been isolated by both teams of researchers. The DEN-1, DEN-2, DEN-3, and DEN-4 viruses are four closely related virtues that cause durings illnesses. Because such of these four viruses interacted differently with the ambhodies in human blood serum, they are referred to as enougher. Even while there is considerable generic virtualities within a single secretype, the four danges viruses are similar and share about 65% of their generics. All denote secretype infections cause the same sickness and amiliar set of clinical again, despite these differences.

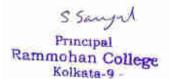
All from scrotypes were discovered in Southeast Asia in the 1970s and tota DEN-1 and DEN-2 were discovered in Central America and Africa. The four senergies seem insector, which dispursed geographically by 2004. Cherenily, all from dengine accordance consist in topical and subtropical areas of the world (Fig. 1). The four dengine sensitypes have smaller geographic and excloqual maths. Southeast Abi the dengine viruses evolved in nonlinear maths by proposed and supposed from these primates to intrinsic in Africa or Southeast Asia between 500 and 1,000 years ago.

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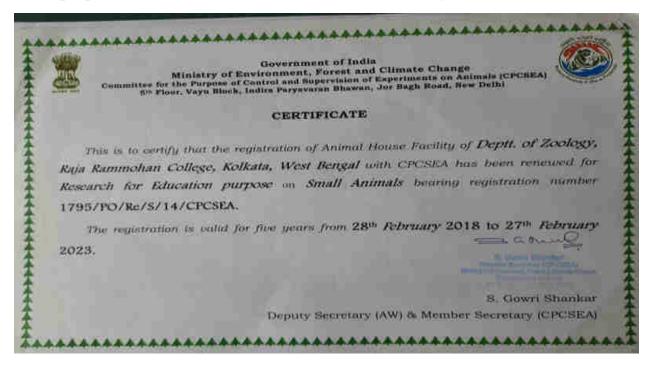
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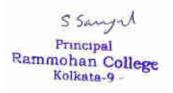
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Animal House as Research facility

The college has developed an Animal House which has been registered to CCSEA for three consecutive tenures, where the research scholars of our college are actively working on animal research. Not only that but also both UG and PG students of our and several other colleges of Kolkata and its surroundings regularly visit the animal house under proper guidance, to gather knowledge regarding various aspects of animal ethics and care, as there is no other college in the city of Kolkata where properly maintained animal house has been existing.









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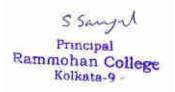
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No. 25/137/2012-AWD Government of India

Ministry of Fisheries, Animal Husbandry and Dairying
Department of Animal Husbandry and Dairying
O/o Committee for Control and Supervision of Experiments on Animals
(CCSEA)

Delhi Milk Scheme Complex, Shadipur, Delhi – 110008 Date: 21.07.2023

To.

Dr Shantanu Das, Chairman, IAEC Deptt of Zoology, Raja Rammohan College 102/1 Raja Rammohan Saratti, Kolkata - 700009, West Bengal Email: dasshantanu14@gmail.com Mobile: 9836693635

Subject: Renewal of Registration and Reconstitution of Institutional Animals Ethics Committee (IAEC)-regarding.

Sir.

The registration of Animal House Facility of your establishment with CCSEA has been renewed for a period of five years from the date of issue of this letter.

- 2. The registration number of Animal House Facility of your establishment is 1795/PO/Re/S/14/CCSEA for Research for Education purpose on small animals. Henceforth, this registration number may kindly be quoted in all your future correspondence.
- The CCSEA has accepted the following members recommended by the establishment.

Name of the IAEC Members	Designation in IAEC
1) Dr Shantanu Das	Biological Scientist, Chairperson
2) Dr Kaustav Dutta Chowdhury	Scientist Incharge of Animal House Facility, Member Secretary
 Dr Sahana Mazumder Sen 	Scientist from different biological discipline
4) Dr Sonali Ghosh	Scientist from different biological discipline
5) Dr.Sourav Mathur	Veterinarian

 CCSEA hereby nominates the following members to the Institutional Animals Ethies Committee (IAEC) of your establishment:

Details of Nominee(s)	Nominated as
 Dr. Mihir Kumar Biswas 48/A. Dhirendra Nath Chatterjee road, P.O. Alambazar, P.S. Buranagar, District North 24 Parganas - 700035, West Bengal Contact No. 9830194433 Email: drmihirkumarbiswas16@gmail.com 	
Prof. Dr. Nripendra Nath Bala S. Jessore Road South, Hridaypur, Kolkata - 700127, West Bengal Contact No. 9433841204 Email: dmripendranathbala63@gmail.com	Link Nominee

Contd...



Principal
Rammohan College
Kolkata-9



Ref.

Phone: 2350-5687,

Date.....20

2354-3853 Fax: (033)2350-5687

RAMMOHAN COLLEGE

(Formerly City College W.Dept.)

102/1, Raja RammohanSarani, Kolkata – 700009

E-mail:rmc.tic85b@yahoo.in, rmc.principal@gmail.com

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3) Chai Com- 1 4 4 4 5 1	2-
3) Shri. Swarupananda Mukherjee 63 A/2, Gitanjali Apartment, Metro park, Raja Ram Mohan Roy Road, Kolkata - 700082, West Bengal Contact No :9051164251 Email:swarup_mukherjee@rediffmail.com	Scientist from outside the Institute
Dr. Suprodip Mondal Prof. D.B. Mukherjee New Boy's Hostel, West Bengal University of Animal & Fishery Sciences Kolkata - 700037, West Bengal Contact No. 7501171158	Socially Aware Nominee

Email :suprovety:@gmail.com

(Please note that any change in IAEC members can be made only with prior approval of CCSEA.)

- The IAEC is valid for a period of five years and is coterminous with renewed period of registration. IAEC is required to be reconstituted at the time of renewal of registration as per CCSEA guidelines.
- You are requested to convene the meeting of the re-constituted IAEC within a period of 30 days and upload the same on the website of the CCSEA.
- It is stated that only above approved IAEC members shall sign, with date, on the attendance sheet of the IAEC meetings, and decisions will be taken only in meetings where quorum is complete. The quorum for holding IAEC meeting is six (6), and Main Nominee, Scientist from Outside the Institute and Socially Aware Nominee must be present in such meetings. Link Nominee can attend in case main nominee conveys his unavailability in writing to the chairman IAEC. However, the Link Nominee must be invited once a year to update him/her about the activities of the IAEC. Any decision taken in the meetings of IAEC without quorum shall be considered invalid.
- It is also to inform you that before commencing any research on large animals you
 are required to send research protocols with due recommendation of IAEC to CCSEA for
 further approval (procedure for submission of Research Protocols is available on the website
 of CCSEA).

Yours incerely,

(Dr. S. K. Dutta) Member Secretary (CCSEA)

Copy for necessary action to: Nominees of CCSEA.

The Main Nominee is requested to ensure that the IAEC meetings are held regularly as stipulated in the SOP of CCSEA and submit the Annual Inspection Reports of the Annual House Facility regularly on the Website of CCSEA.



Principal
Rammohan College
Kolkata-9



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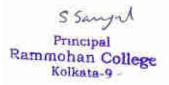
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Minutes of (1st No. of Meeting) Rammohan College, IAEC Meeting

(Minutes of IAEC meeting should be uploaded on the website of CPCSEA within 15 days after conducting the meeting)

Name and address of establishment: Rammohan College, 102/1, Raja Rammohan Sarani, Kolkata-700009

Registration number of establishment: 1795/PO/Re/S/14/CPCSEA

Date and Time of the IAEC Meeting: 28th September, 2023; 11:00AM

Venue: Department of Zoology, Rammohan College

Minutes of the Meeting:

Item No. 1: Formation of Institutional Animal Ethics Committee, Rammohan College, Kolkata

Chairman of the committee, Dr. Shantanu Das welcomed and introduced all the new committee members of the IAEC present at the Department of Zoology, Rammohan College for the discussion on Institutional Animal Ethics Committee, Rammohan College, Kolkata







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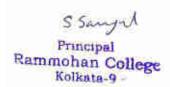
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Item No. 2: Animal House visit

Animal House visit of the Department of Zoology was done with all the members. Members expressed their satisfaction after visiting the same and following suggestions were given by them:

- i) During transport of animals, vehicle with A/C facility should be used.
- ii) Purchased animals must be kept in quarantine for few days (10-14days) before use.
- An attendant should be provided by the authority for A/C maintenance, log book iii) maintenance, maintenance of feeding schedule, checking of animal health status etc in animal house.
- iv) Post-mortem may be done for natural death by the veterinarian.
- An photocell occupancy sensor may be installed for the control of 12 hour light and 12 v) hour dark cycle of animals.
- vi) Documents are requested to submit regarding Biological waste management.
- vii) A new A/C machine (of 2 ton) may be installed instead of the older one in the animal house.
- viii) Installation of an A/C has been suggested for quarantine room.







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Item No. 3: Decision/ Recommendation of IAEC on New Research Protocols:

There was no proposal for discussion in this meeting.

S	Title of the Protoc ol	Protocol No.	Spe cies prop osed	Total Housing capacity for Species proposed	Number of animals proposed	Number of animals recommended by IAEC	Approved/ Rejected/ Deferred/ Any other remark/ observation of IAEC

Item No. 4: Miscellaneous

No matter was there to discuss.

All members are satisfied with the discussion. Meeting ended with thanks to and by the Chair.







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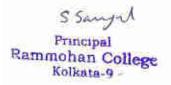
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S. No.	Name	Designation in IAEC	Signature with Date. (The Monger should be regard with tid Scanness). signature and shire shall me be sampled.)
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4	Dr. Supredip Roudal	Socially Anome Nomine	Superdip lendel 28/9/23
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9	Dr. Kanther Dulle Charley	Mamber Herricy, ART Scientist -	Kawita Delle Christing 28/10/2

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Outcome:

Animal house visit by Vivekananda College, Thakurpukur, Kolkata

The Post Graduate students of Zoology from Vivekananda College, Thakurpukur, Kolkata, visited the Animal house and laboratory of Department of Zoology, Rammohan College on 10th and 11th August, 2022 as a part of their curriculum.

10th August, 2022: Faculty members of Zoology Department, Rammohan College delivered lectures on animal ethics and animal handling was demonstrated.

List of research scholars and faculty members are as follows:

- Ms. Pujita Ghosh, Research Scholar
- Ms. Soumi Banerjee, Research Scholar
- Dr. Samarendra Nath Banerjee, Associate Professor
- Dr. Kaustav Dutta Chowdhury, Assistant Professor







Ref.

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Dr. Saxwati Sanyal Principal Rammohan College Kolkata-700009
Siib: Lab visit.
Madam.
The Semester-IV post-graduate students of the Molecular Cell Biology Electic paper of our college are interested to visit your college to observe and to gath knowledge in Animal Maintenance Facility and Western Blot technology under the guidance of Dr. Samarendra Nath Banerjee and Dr. Kaustay Dutta Chowdhury.
Kindly allow them for the purpose mentioned above.
Hope your response be affirmative.
Thanking you,
Sincerely your
Vivine annual Communication Cor. T. K. Poddu
Theorem Not 02 Principal





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Roll No.	Registration No.	Signature of the candidate
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544/200/201431	023-1211-0153-17	Hiya Ghosh
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544/200/201234	235-1111-0801-17	Wistark Pandey.
544 200/201235	014-1211-0348-17	Payel Chakera.
544 zoo/201236	023-1211-0046-17	Pranamita busi
544/200/201237	544-1211-0469-17	Prattva Patra
544/200/201238	014-1211-0421-17	Riya Mulham
544/200/201239	541-1221-0028-16	Senosita Sakoo
544/200/201240	561-1211-1125-17	Sayel Muching
544/200/201241	023-1211-0069-17	Sneyashi Pas
594/222/201242	561 - 1212 - 1176 - 17	Srimoui Nackar
544/200/201243	563-1111-0685-17	SubhajitSaha





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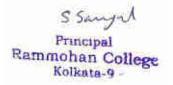
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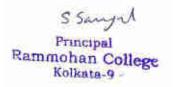
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The Post Graduate students of Zoology from Vivekananda College, Thakurpukur, Kolkata, visited the Animal house of Department of Zoology, Rammohan College on 30th May, 2023 as a part of their curriculum. Faculty members of Zoology Department, Rammohan College delivered two lectures on animal ethics and hands on animal handling was conducted.

List of research scholars and faculty members are as follows:

- 1. Ms. Pujita Ghosh, Research Scholar
- 2. Ms. Soumi Banerjee, Research Scholar
- 3. Dr. Samarendra Nath Banerjee, Associate Professor
- 4. Dr. Kaustav Dutta Chowdhury, Assistant Professor







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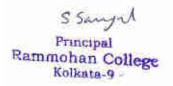
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	Date
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	NDA COLLEGE
Ref. No	Date 27 04 2025
Dr. Suswati Sanyal Principal Rammohan College Kolkata-700009	
Su	be Lab visit.
Madam,	
	ints of our college are interested to visit your logy Laboratory to witness the Western Blot reurriculum.
Further you are requested to allow D Dutta Chowdhury of your college for	r. Samazendra Nath Banerjee and Dr. Kaustav assistance during demonstration.
Kindly give necessary permission for	the purpose mentioned above.
Hope your response be affirmative.	
Thanking you.	
	Sincerely yours,
	this
	Versionanie Gallege Tuntupidur, Kirkin Principal
269, DIAMOND HARBOUR ROY	D. THARURFURUR, KOLKATA-700 003







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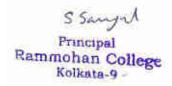
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12	544/200/211257	014-1211-1209-18	Pina chundhusy
13.	544/200/211258	023-1111-0493-18	Rudsanit Chowdhury
4.	544/200/211259	541-1112-0107-18	Sinshadeen Molling
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6.	544/200/211261	115-1111-0941-18	Souder Bhattachange
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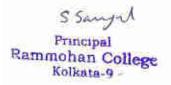
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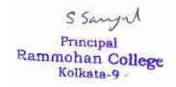
Animal house visit by Victoria Institution (College)

The Under Graduate students of Zoology from Victoria Institution (College), Kolkata visited the Animal house of Department of Zoology, Rammohan College on 22nd December, 2022 as a part of their curriculum. Faculty members of Department of Zoology, Rammohan College delivered two lectures on animal ethics and demonstrated animal handling.

List of faculty members are as follows:

- 1. Dr. Samarendra Nath Banerjee, Associate Professor
- 2. Dr. Kaustav Dutta Chowdhury, Assistant Professor







Ref.

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Date.....20

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Sub. Request for	permission of Animal F	forms visit of the Donne	tment of Zoology of your
College for our SE	MESTER-5H students	COOK VION OF THE CAPTER	arrent of Zoology of Your
LIMPONIA POR CANADA LO CONTROLO			
Respected Madam			
the Animal Maurice	ind permission to allow	v our SEM5H students	(No. of students: 18) to visit
1pm onwards	or the Department of	Zoology of your colleg	e on 22nd December, 2022
	akan the necessaries for	om the respective Depa	¥.
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Thanking you,			
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Yours sincerely,	1 2/2/2 1 1		
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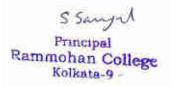
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Attendance sheet of the students

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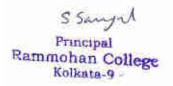
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Significance:

This inturn helps to establish inter-institutional knowledge sharing ecosystem for the benefit of the students.

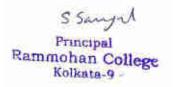
Development of knowledge sharing ecosystem

- 1. Installation of PM 2.5 sensor
- 2. Installation of Weather station

i. Installation of PM 2.5 sensor at New Science Building, Rammohan College

Keeping the air quality monitoring into perspective and for sensitization of young minds, a PM2.5 sensor has been installed in the Department of Botany in the premises of the New Science Building of Rammohan College in collaboration with Prof. Punyasloke Bhadury, Centre for Climate and Environmental Studies& Department of Biological Sciences, IISER, Kolkata.







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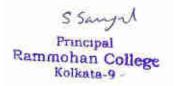
The cost-effective sensor development has been validated and through this installation vital data on air quality, in particular for PM2.5, humidity, among others are being generated 24x7. The information can help towards effective decision-making process to improve the city air quality and most importantly will inculcate thinking among the young minds studying in Rammohan College.













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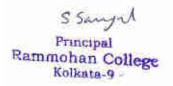
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ii. Installation of Weather Station, Department of Geography at New Science Building, Rammohan College

Department of Geography, Rammohan College maintains a Weather Station since September 1st, 2023 at New Science Building Campus in association with Indian Meteorological Department, Kolkata. It is very unique as the first educational institute with such facilities in North Kolkata. At present, this mini weather station is capable of measuring maximum and minimum temperature, relative humidity, atmospheric pressure, wind direction and rainfall data and this information are regularly updated in college website.









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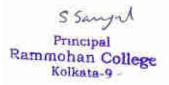
These two composites along with other facilities under knowledge sharing ecosystem can be used to figure out the factors responsible for the alterations in floral and faunal diversity within the campus. This model ecosystem study will inspire to extend the systemic observations to the neighbouring sites, finally in larger concept to the north Kolkata. The sid process has been initiated by publishing People's Biodiversity Register (PBR of Ward no 27, Kolkata Municipality Corporation, West Bengal following the directive of National Green Tribunal.













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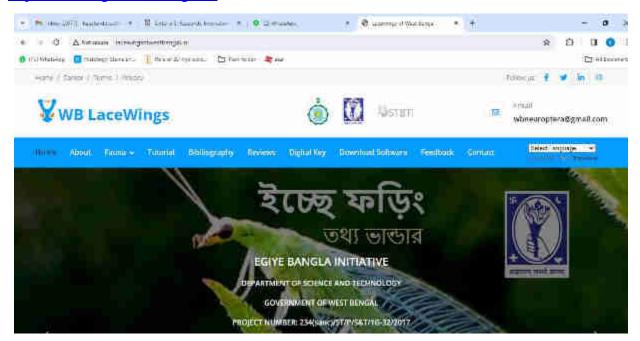
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Development of digital key for Neuroptera: The Industry Academia Interface

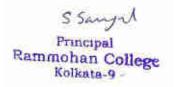
Rammohan college academia incubation centre is also associated with the development of digital key for Neuroptera associated with Aphids of West Bengal. This initiative on the development of artificial intelligence based digital key may able to transfer the knowledge from laboratory to field which is the most significant part of this venture. The related website and youtube links are as follows:

Website link

http://Lacewingsofwestbengal.in









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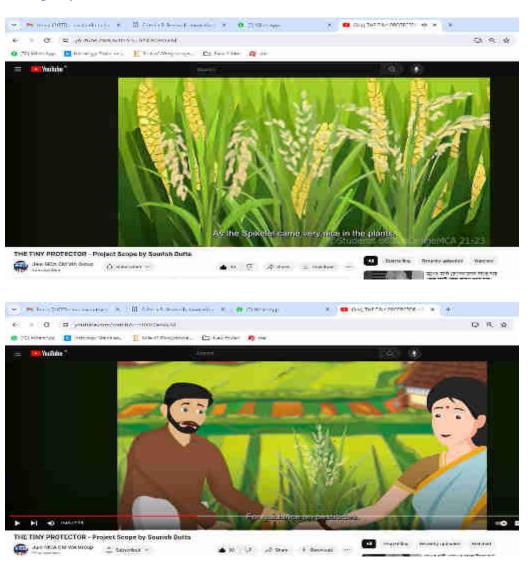
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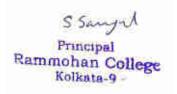
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You tube link: https://youtu.be/h8Xlh0eb6FM









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Indian Journal of Computer Science and Technology

www.indjest.com

ISSN No: 2583-5300

Model Aphid Predator Neuroptera (Insecta): Web-Based Digital Key Development from Dichotomous Key by Computer Programming

Sourish Dutta¹, Rubia Mondal², Sayak Ganguli³, Rayan Das⁴, Santi Ranjan Dey⁸

12.5 Department of Zoology, Rammohan College, Kolkata, West Bengal, India.

1Post Graduate Department of Biotechnology, Saint Xavier's College, Kolkata, India.

2 Department of Zoology, Asutosh College, Kolkata, India.

*Department of Zoology, Assitosh College, Kolkata, India.

*Abstract: The bulk of scientific problems given by histogrists could never be increased or even envisioned without reference to some sort of hierarchical arrangement of tax a making classification the most fundamental component of all biological sciences. The majority of biologists may agree that the goal of taxonomy should be to identify the many components of biologists, especially considering the significance of increase organization for the security and the best crop management practises. However, field experience in havmony and application is disappointing. As a result, it is essential to find any pests or other exempes. Since adopting new autonomic technologies in 2011, the USDA Animal and Plant Health Inspection Service. Plant Protection and Quarantine (APHIS-PPQ) has created an incredible array of identification roots, asme of which are gaining environmy popularity. There isn't yet a damabase or programme in India that is saited for this use and uses Indian algorithms. We have chosen the predator group of aphids as succontrol agents. This is because the Neuroptera (Insecta) of West Bengal, India is region-specific database reliant (Homestod) indias is a trent, we made an experimental website called wave lacewingsofwestbengal in and a "Digital Key" of "Families" of a particular group of Neuropterans.

Keywards: Aphid-predator, Hemershiulae, Chrysopidus, Digitalae, Computation

Keywords: Aphid-predator. Homerobiodise. Chrysopidise. Dibaridae. Contoppersydes. Digital key

LINTRODUCTION

Most scientific problems posed by biologists could never be defined or even envisaged without reference to some sort of hierarchical organisation of taxa, making classification the most fundamental of the biological disciplines (Rieppel, 1992, 2004). But the question of the future of taxonomy—or even if it has a future—has started to crop up frequently in both specialised and general scientific publications. Taxonomy shouldn't serve as the "handmaiden" of other biological disciplines, it has been maintained (Wheeler 2008). On the other hand, the majority of biologists might agree that taxonomy's goal should be to identify the elements of Taxonomic and practical field knowledge, however, are both disappearing. As a result, it is critical to identify any pests or other organisms. After adopting new taxonomic technology in 2011, USDA Animal and Plant Health Inspection Service, Plant Protection and Quarantine (APHIS-PPQ) has created an astounding array of identification tools, several of which are gaining enormous popularity. The method is the creation of digital and beta keys. The algorithm has been created and registered for patent, 130 countries presently unlike this commercial software (LUCID BUILDER VERSION 3.5). India is still working on its own software. As it is region specific database dependent, we have to develop our own algorithm.

Members of the superorder Neuropterida (orders Neuroptera, Megaloptera, Raphidioptera, and Glosselytrodea) have access to a range of digital data online, including lacewings, anthons, fish flies, and anake flies. One can easily retrieve this information via the digital interface of Texas A&M University's Lacewing Digital Library (LDL.) Since 2010, visitors have had access to a variety of online resources through the LDL portal (http://taxwing tami.edu.). Which provides information on neuropterid insects, global neuropterists, and related subjects. The Neuroptera or an

The demand for taxonomists has reached previously unheard-of heights due to the practically continual appearance of new diseases and pests in agricultural areas. For experts in insects, identifying new, existing, and possibly invasive pest species is a daily problem. It is essential to appropriately identify any insects before taking any further action. In the past, end users have recognised insects using a range of techniques, including matching (type specimens), dichotomous keys, route keys, matrices and multiple entry keys (computer assisted), tabular keys (taxa w. character states), and punch card keys. Recently, the use of computer-based taxonomic applications that include taxonomic keys, resources, and tools has increased. On the other hand, alpha taxonomy has advanced down the systematic branches. Most biological sciences require the ability to recognize species, particularly invasive ones. It does play a bigger part in post management, though (Odeh et al. 2015, Sharma et al. 2019).

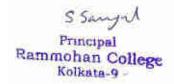
The group of neuroptera is crucial as a biological control agent, Neuropterans are currently being sold commercially as controlling agents by 14 Canadian, 33 Mexican, and 95 American firms (http://www.cdp.ca.gov/docs/pestingt/ip). Additionally, our state has a neuropteran resource. More than 35 different species of Neuroptera associated with aphids have been collected and identified by us in West Bengal. So, for the "Family," we created a model beta digital key.

II. MATERIALS

Key to the Aphidophagous Families of West Bengal of the Suborder Planipennia

We have collected Neuropteran specimens from different regions of West Bengal and analyzed their morphology for







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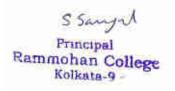
This project may be considered as an innovative approach to the laboratory to land programme. Dissemination of this related knowledge probably helps farmers to increase farm productivity by developing awareness on model aphid predator Neuroptera. Collaboration with industry professionals regarding the same provides farmers with a blend of practical expertise and academic rigor. This type of industry academia interface also helps to increase the interests of the students in their skill enhancement course (SEC) since 'Applied Entomology' has been included in 1st semester syllabus of Zoology, University of Calcutta.

Special lectures by eminent Professors

SL No 1: Dated 25.07.2019

A seminar was organized by the Department of Botany on "CAREER COUNSELLING CUM ORIENTATION PROGRAMME" on 25.07.2019. The speakers were DR. SHYAMAL K. CHAKRABORTY (ASSOCIATE PROF. BIDHAN NAGAR COLLEGE) and DR. ASALATA D'ROZARIO (ASSOCIATE PROF. NARASINHA DUTT COLLEGE) to give an idea to the students about the different career avenues after graduating with Botany as a major subject.







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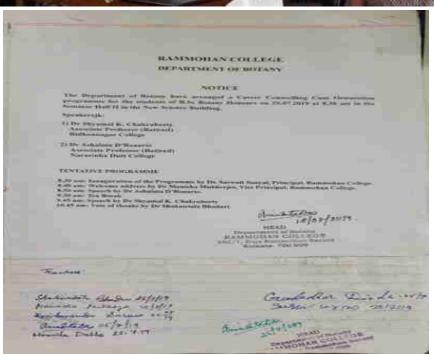
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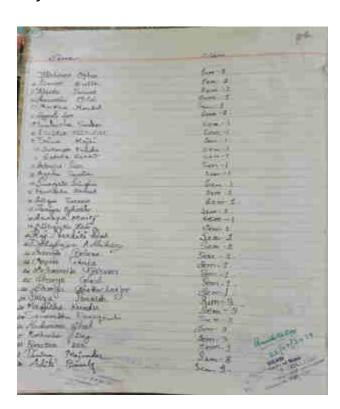
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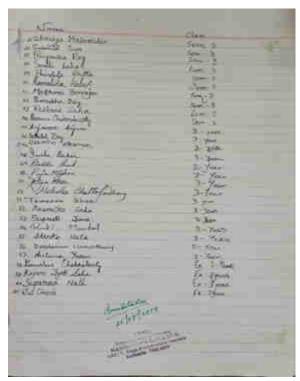
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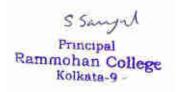




SL No 2: Dated 25.11.2019, 30.11.2019

Prof. Moumi Banerjee took Semester-3 SEC special Classes on the following dates: 25th and 30th September 2019. Topic was Historical Tourism: Theory and Practice. It was specially for 3rd Semester (CBCS) History Honours students on the following dates: 25.11.2019 (10:00 am to 12:00 pm) and 30.11.2019 (10:00 am to 12:00 pm),







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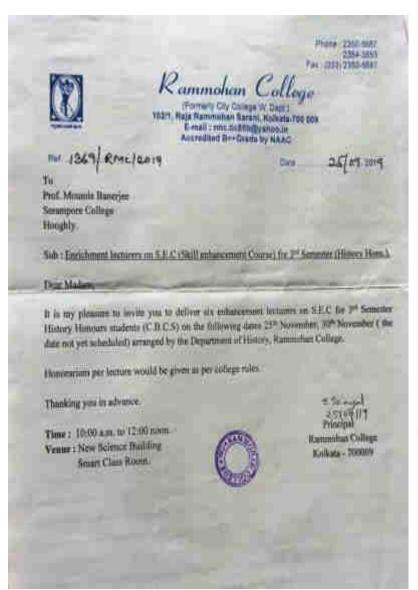
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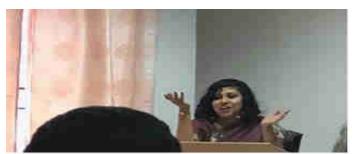
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Prof. Moumi Banerjee taking Semester-3 SEC special Classes.







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SL No 3: Dated 03.08.2020

DEPARTMENT OF ZOOLOGY AND IQAC

Host: Dr. Kaustuv Dutta Choudhury

Date: 03/08/2020

Inaugural Lecture: Principal, Rammohan College

Speaker I (5 pm-5: 45 pm IST): Dr. Mrinal Mukherjee, Assistant Professor

Co-Ordinator, Department of Education, Planning and Administration, WBUTTEPA

Topic: Coping with stress and managing education in the context COVID 19

pandemic: The whole institutional approach

Speaker II (5:45 – 6: 30 pm IST): Dr. Rajen Haldar, Assistant Professor,

Department of Physiology, University of Calcutta

Topic: Know your health: Self-diagnosis and limitations







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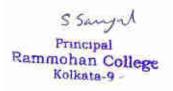
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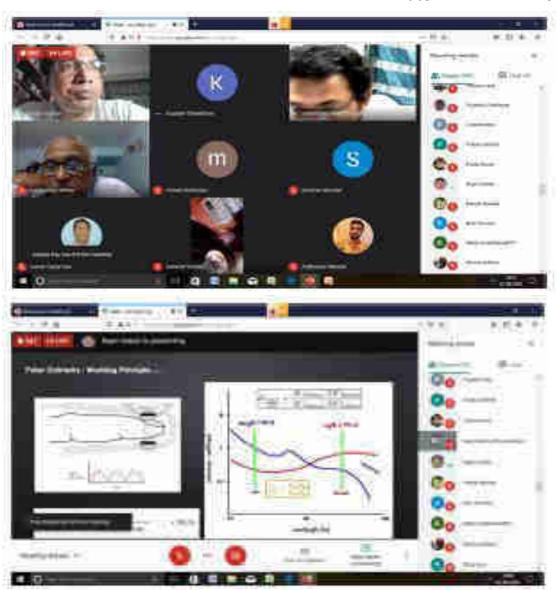
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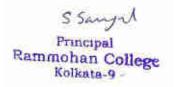
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SL No 4: Dated 05.08.2021 to 08.08.2021

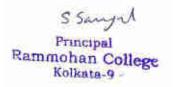
Deprtmental Seminar, English Department

The Department of English in collaboration with the IQAC, Rammohan College (Affiliated to the University of Calcutta), Kolkata organized an online lecture series on 5 th, 7 th and 8 th October 2021. This online lecture series was held with an intention to provide the students with an in depth and resourceful knowledge about the different areas of their study through the lectures of some eminent teachers and scholars of repute. The complete schedule of the series is enclosed herewith. There are six speakers from different University, who delivered talk on different topic. After the end of the programme, Students and the speakers were given certificate.











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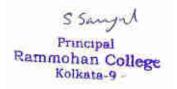
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Total number of student participants 110







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SL No 5: Dated 25.03.2022

Department of Physiology and IQAC, Rammohan College organised a seminar on 25th March, 2022 from 12pm onwards in Smart Class Room, New Science Building. Dr. Sujoy Lahiry, Lead Scientist, R & D, Primary Cells, ATCC, Gaithersburg has delivered his lecture on on "Hepatic and other primary cell isolation from human and animal tissues". Students from UG and PG department of Physiology of Rammohan College attended the lecture. It was a great interactive session between the speakers and the students.

RAMMOHAN COLLEGE

Department of Physiology U.G. & P.G.Section

NOTICE

We are glad to announce that *Dr. Sujoy Lahiri*, Lead Scientist, R&D, Primary Cells, ATCC, Galthersburg has given his kind consent to deliver a popular lecture on "Hepatic and other Primary Cell isolations from Human and Animal tissues" for the 6th Semester B.Sc Students (Physiology Hons.) and 4th Semester M.Sc Students (Human Physiology) on 25th March,2022 (Friday) at 12.00 noon.

All are cordially welcome.

Venue: New Science Building

Sonali (lyhesh 23/03/2022 (Dr. Sonali Ghosh) Head Department of Physiology Rammohan College.

(Dr. Gouriprosad Datta)
Course Coordinator
P.G.Section
Department of Physiology
Rammohan College.







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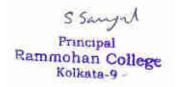
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Total number of participants was 35







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SL No 6: Dated 7.12.2022

Deprtmental Seminar, Mathematics Department

Department of Mathematics, Rammohan College in collaboration with Internal Quality Assurance Cell, Rammohan College organized a State-level Seminar on 'Mathematics, Physophophical and Modern Aspects' on 7th December 2022. The seminar was inaugurated by Dr Saswati Sanyal, Pricipal, Rammohan College. Dr. Parthasarathi Mukhopadhyay, Associate Professor, Dept. of Mathematics, Ramakrishna Mission Residential College (Autn.) delivered his lecture on An Eternal Enigma, Shunyashudhu 0 noy. Dr.Hiranmoy Mondal, Associate Professor and HOD in the Dept. of Mathematics, MAKAUT, WB, delivered a lecture on "NOTHING IS UNREAL—EXCEPT NUMBER'S".

The seminar opened new vistas for students to explore various avenues through proper knowledge in the world of Mathematics, where they discussed not only about Mathematics but also gathered knowledge of History, ancient Geography and old civilizations.

Number of registered students 33







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SL No 7: Dated 28.04.2023 and 13.05.2023

Prof. Moumi Banerjee delivered invited lectures for History Honours Semester-IV on 28th April 2023 and 13th May 2023 on Indian Art. 4th Semester (CBCS) History Honours attended the lecture

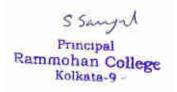














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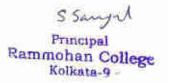
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REF DORT MAY 12015	Date 55, 04, 202.5	25 Vinda Das	Vinde Day
Fro. Mournie Banerjee Assistant Professor in History Serampore College Hooghly, West Bengal Madam I cordially invite you to deliver two Specia Appreciation: An Introduction to Indiane Ar Hons. Semester - 4. The dates are 28.04.202 Hope you will kindly agree Thanking you in anticipation. Your sincerely \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$, in our College for students of History	5) Misken Khadoon 4) Ayesha Piadous 5) They har Caple 6) Aviordila Noyak 7) Animilia Romahain 8) Maka Sadon 9) Ishari Ghah 10) Fana Cahada 11) Tiasha Birwas 13) Kietika Mondal 11) Tiasha Birwas 13) Kietika Mondal 11) Tasha Birwas 13) Kietika Mondal 11) Toglika Rawl 13) Kietika Mondal 11) Toglika Rawl 13) Kietika Mondal	Museum Linners Thoughou Linners Thoughou Linners Andredita Morphy Andredita Morekait. Mala Jacky Testan Ghosh Tradition Russian Rupsa Mishma Kintika Woondal Moglika Parul. Fragulata Bossa Waha Chambalboneh







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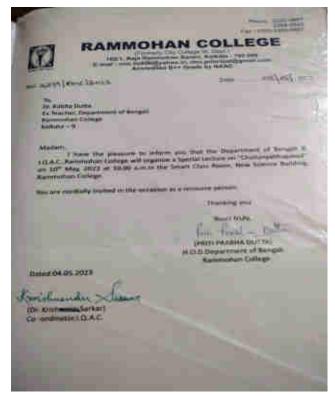
SL No 8 : Dated 10.05.2023

Two special Lectures were arranged on 10th May, 2023. Topic of the Lectures

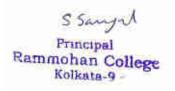
Chaitanya Bhagavad-Speaker- Dr. Kabita Dutta, ex-teacher of the Department

Kalidas o Rabindranath-Speaker -Prof. Arijit Baidya, Assistant Professor of Victoria Institution, Kolkata











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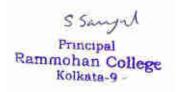


SL No 9: Dated 11.05.2023

Deprtmental seminar, Chemistry Department, RMC

Department of Chemistry in collaboration with IQAC, Rammohan College organized a State-level Seminar on "Chemistry for sustainable future" on 11th May 2023. The seminar was inaugurated by the Patron, Dr. Saswati Sanyal, Principal of Rammohan College, Kolkata. Dr. Arpita Chandra, Senior Scientific Officer Chittaranjan National Cancer Institute, Kolkata, and Dr. Subhasish Roy, Assistant Professor, Department of Chemical Engineering, University of Calcutta was present as the distinguished speakers in this seminar.







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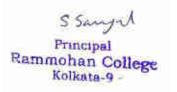
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Prof. (Dr.) Sudmanie Bay	The Adminis Chandra
Assistant Profesion.	Senior Scientific Officer.
Department of Chicolical Degistering University of Chicolica	Ne vitro Carcinoarmolé and Caffabe Chemotherapy,
promising in Caronic .	Chittararjas National Cancer Issuitute,
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Respected Six,	Subject Instrution as a Nametre Person in the State Level Seminar
We are delighted to inform, you that the Department of Chemisery, Rammotan Callage (Affiliand to the University of Calconn), Kalkaka is planning to regarder a one day flow Level Summer. "Chemisery for sustainable factors on 11" May 2023. This seminar some to provide the students with on in-dapth and responsible factors of anne emission specialized about reversely factors of some emission specialized. With this intention, we flest performed a voice pose as Remover present in this senting and would like to require you to delive because my that they so 1920 am. We camely local forward to your kind acceptance of our acceptance.	Respected Modern, We are delighted to before you that the Department of Chemistry, Rammodian Cultige (Affiliated to the University of Calonitar). Kollege is planning to organize a one day three Level Seminar; "Chemistry for sustainable Finner" on 17" May 2023. This seminar store provide the modern with an in depth and resourceful knowledge above the different way of their study through the lectures of some entirest speakers. With this manifelest, we first privileged to invite you as Risemuca passes to this seminar and would like to request you to deliver before in that they at 3.00 are. We engetly look forward to your kind acceptance of our invitation. Frankling you. Your sinceredy
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Comment details: 9475977545059 Army Musclety	
	Contact details; 9473977549(Dr Arup Mantal)

The seminar was with huge success since our students enjoyed it a lot. It was followed by a quiz by Dr Arpita Chanda where she distributed some gifts. It was really encouraging for the students.

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Number of registered students 34







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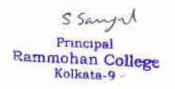
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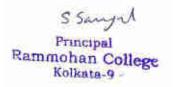
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Outcome:

In terms of **content**, students learnt to show competence in identifying relevant information, defining and explaining topics under discussion. They further understood to judge when to speak and how much to say, speak clearly and audibly in a manner appropriate to the subject, ask appropriate questions, use evidence to support claims, respond to a range of questions, take part in meaningful discussion to reach a shared understanding. They again realized that they have to pay close attention to what others say and only can able to respond constructively. Through listening attentively, they were able to build on discussion fruitfully, supporting and connecting with other discussants. With these experiences students now can able to develop persuasive speech, present information in a compelling, well-structured, and logical sequence, respond respectfully to opposing ideas, show depth of knowledge of complex subjects, and develop their ability to synthesize, evaluate and reflect on information.







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Field visit of Students of Laboratory based subjects

Department of Botany

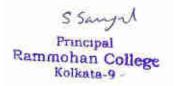














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Department of Zoology











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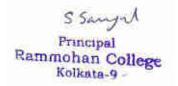














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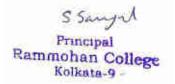














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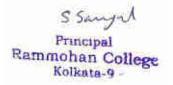
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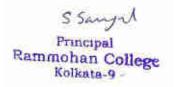
Department of Physiology



Department of Geography









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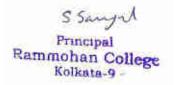














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Outcome:

Field trips bridge the gap between theoretical knowledge and its application in real-world. By providing students with tangible hands-on experiences, these make learning more engaging, memorable, and relevant. Furthermore, trips promote critical thinking, enhance observational skills, and nurture a sense of curiosity and wonder.

Thus basically these provide alternative educational opportunities for students and trips can benefit the community if community services have been included.

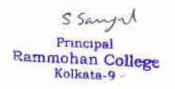
Medicinal Plant Garden

Research Council/Advisory Board also conducts Environment awareness programmes round the year and one medicinal plant garden is under development in the new science building. Moreover, one small kitchen garden is rapidly growing adjacent to the college canteen where vegetables and spices produced in the garden will be utilized shortly.

Objective

The objective of establishing this garden is to maintain a conservation of the important species of medicinal and aromatic plants which are being used in day-to-day primary health care.







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Plantation of Phyllanthus emblica (Indian gooseberry or amla)







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Kitchen garden at New Science Building, Rammohan College

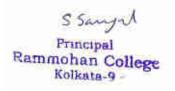






Sample picture of Solanum sp, Citrus limon, Amaranthus cruenta







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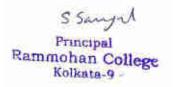
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Outcome:

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Medicinal plant gardens are appropriate tools for conservation of indigenous medicinal plants and preservation of traditional knowledge that help to collaborate local communities, academicians, students, researchers and pharmacists for generating greater conservation benefits and promote science communication. Moreover, dissemination of the knowledge regarding the same among the students may help to develop the movement for the protection of our mother nature.







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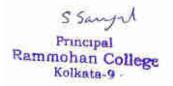
Unit B: Intellectual Property Rights Cell and activity

Rammohan College

IPR Cell

- 1. Dr. Saswati Sanyal, Chairperson, Principal, Rammohan College
- 2. Dr. Kaustav Dutta Choudhury, Co-ordinator, IPR Cell
- 3. Dr. Krishnendu Sarkar, Co-ordinator, IQAC
- 4. Dr. Samarendra Nath Banerjee, Subject expert
- 5. Dr. Samiran Mondal, Member
- 6. Dr. Md Ahmadullah, Secretary, Teachers' Council
- 7. Dr. Santi Ranjan Dey, Member







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IPR Policy

The National Intellectual Property Rights (IPR) Policy 2016 was adopted on 12.5.2016 as a vision document to guide future development of IPRs in the country.

Rammohan College, 85A, 85B, 85C, 85D & 102/1, Raja Rammohan Sarania, Kolkata 700009 adopted the following IPR Policy:

- 1. All inventions, discoveries and other works that can constitute Intellectual property should be disclosed in a thorough and timely manner.
- 2. The concerned person/s will provide all records and documents that are necessary to the protection of the Intellectual Property.
- 3. Abide by the agreements made in respect of the sponsored research and licensing.
- 4. Have further responsibility to properly consider, disclose and manage any conflicts of interest arising in the ownership of Intellectual Property in which the Institute has stake/share.
- 5. Intellectual Property generated through University sponsored projects will be governed by the terms of agreement between the institute and the sponsor.
- 6. Handling of the rights of Intellectual Property generated during the course of the externally funded projects shall be governed by the terms of contract between the funding agency and the Institute.



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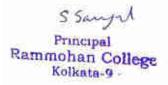
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Seminar on Intellectual Property Right

The Department of Political Science, in collaboration with IQAC, had arranged a seminar on intellectual property rights. Professor Anirban Mazumder, a faculty member of the renowned academic institution, the West Bengal National University of Juridical Science, Kolkata, was the distinguished speaker. It was an illuminating session not only for students, but faculty members present there also benefited. He had begun his lecture with the definition of property and its classification. Intellectual property, i.e., the creations of the mind, falls into the category of intangible property. Unless it is accessible to the cultural life of the community, it remains incomplete. Our students, while asked to name a few intellectual property items, spontaneously responded and mentioned books, vaccines, gadgets, etc. Furnished by different interesting slides Professor Mazumder had described trademarks, copyrights, and patents. We came to know about those stories, which paved the way for a few inventions, and inventors were honoured with patents. A distinction was made between copyright and ownership. Various clauses for infringement of copyright were discussed in lucid language. When it was mentioned that the translation of a book without the permission of the author is considered an infringement, one of our students raised a relevant query. The speaker had cleared her doubt that even if the author is not alive, a willing







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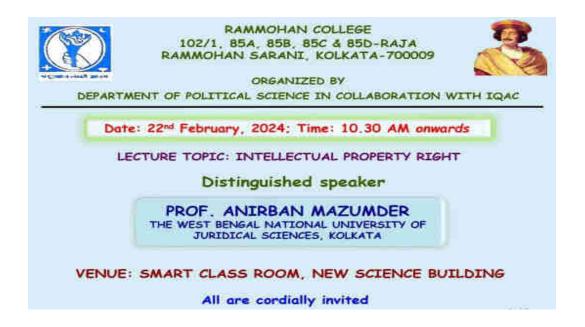
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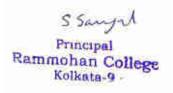
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person has to wait seven years to receive a response from his or her successor. Alongside, he mentioned that for the purpose of research, news reporting, taking help from books, or making any reference, it is not considered illegal. Copyright law facilitates new creations. A patent is granted for an invention only. Many instances were cited to explain the complex web of the Law of Patents, causes for revoking, etc. Finally, he had provided the philosophical legitimization of intellectual property with reference to John Locke's Theory of Labour.









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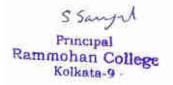
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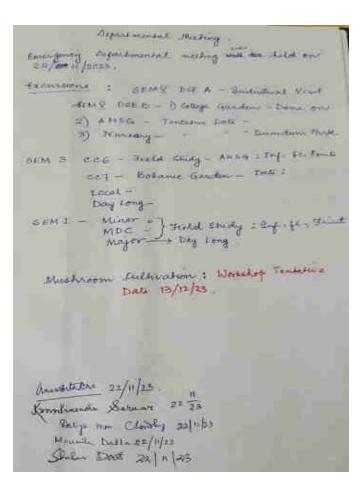
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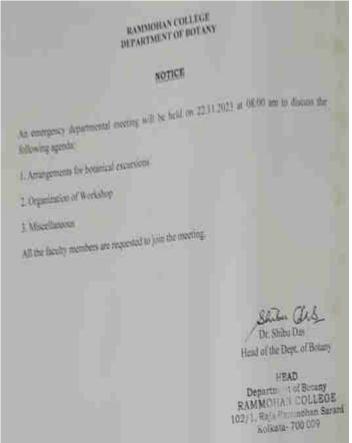
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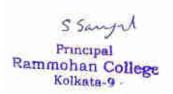
Unit C: Self-reliance and capacity building hub

Establishment of Mushroom culture unit at New Science Building, Rammohan College











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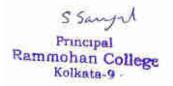
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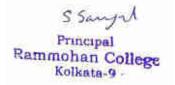
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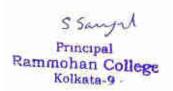
An one-day workshop on Mushroom Culture Technology was organised by the Department of Botany, Rammohan College, on 13th December 2023. The resource persons were Dr Nilanjan Chakraborty (Department of Botany, Scottish Church College) and Mr Anujit Das (Earth Star Mushrooms)

Dr Chakraborty delivered a lecture on the benefits of mushroom as food, different mushroom dishes, the cultivation process and the economic aspects of mushroom cultivation.

After the lecture Mr Anujit Das from Earth Star Mushrooms demonstrated the cultivation process stepwise and gave hands on training to the students of the department. Students from Semester I of the Department of Botany, Vidyasagar College for Women also actively participated in the workshop. The training programme was very successful.









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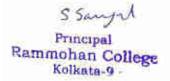














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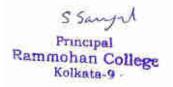
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Remarks

Considering the high yield, fast growth cycle, and low production cost mushroom culture system has been established in Rammohan College. Students are encouraged by the Innovation and Incubation Centre cell to take it as profitable business since mushroom products have a high market demand, and can be sold fresh or processed into a variety of products such as canned mushrooms. Thus it gives chances of employment for the students in the future. Here it should be mentioned that mushroom production can convert the huge lignocellulosic waste materials into a wide diversity of products (edible or medicinal food, feed and fertilizers), protecting and regenerating the environment. Therefore it should be considered as a major component of green trade.







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LEARN TO EARN: Capacity building

The learn to earn motto of the college is well exemplified by the collective effort undertaken by the Department of Bengali when they organized a Handicraft Exhibition of their Alumni Association in collaboration with IQAC, Rammohan College, on 13th October, 2023. The Auditorium in the New Science Building came alive with the excited buying and selling of attractive handicraft items; a number of past students of the Bengali Department displayed their products and this initiative yielded results in the form of revenue generation of more than Rupees Ten Thousand. Among the alumni, Marutrisha Sarkar earned Rs. 2050/-, Riya Ghosh Rs. 1500/-, Sneha and Sudesha Chatterjee Rs. 1407/-, Meghna Guha Rs. 1800/-, Shreyashi Chakraborty Rs. 670/-, Mandira Das and Sudipta Hazra Rs. 750/-, Riya Kundu Rs. 950/- and Swarnali Sarkar raised an amount of Rs. 2040/-. This attempt is an indication of the potential for earning in an effective way among students passed out from this college.







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Date.....20 *Ref.* Handicraft Exhibition of Alumni Association Organized by the Department of Bengali & IQAC, Rammohan College. Kolkata - 700 009 INUITATION The aims of this Exhibition were Handicalt Exhibition of Alumni Association Organized by the Department of Bengali (UG A)To encourage the Students to enhance their potential. & PG) & I.Q.A.C Rammohan College Date: 13.102023 Time: 09:30 am. b) To grow their self confidence. Venue: New Science Building (Auditorium) You are cordially invited c) To make them ready for self employment. Head of the Principal Department So the moto of the program was learning to earning and the Dr. Anasua Dr. Saswati Roy Chowdhury program was successfully completed, Sanual



Principal
Rammohan College
Kolkata-9



Phone: 2350-5687,

Date.....20

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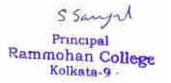
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Date : 13.10.2023	4) Powlormi Botak (B. Ageneral) 1st Semester
Name of the Participants -	5) Ayara Whalim (B.A. History (H)] 1st Somuskin
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2)Riya Kundu	S) Aporna Haily In 1231 1
3)Sneha &Sudesha Chatterjee	(Bargale) (H) 5th Semeston. 10) Sub Para (Bargale) (H) 5th Semeston. 11) Pallabi Holis (6
4)Swarnali Sarkar	12/ Eshika Chesh (General) (H) 5th som
5)Meghna Guha	13) Monutaisha Sankan (P.G2019) (Bengali) (Handfainted M) Dohamita Paul (Bengali -2023)
6)Sheyashi Chakraborty	15) Susano-Halder (Bargale U)- 2023) 16> Maghna Guha (Bergal P. 9-2020) Book Hall.
7)Riya Ghosh	17) Labori Oly (Bengali (H) 2023) 18) Swardi Sarvar (Bongali (H) = 2023) Harding
8)Mandira Das & Sudipta Hazra	19) Juli Roy (Borgali (H) DO23 - CLOSED LOS







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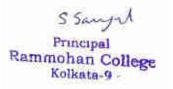
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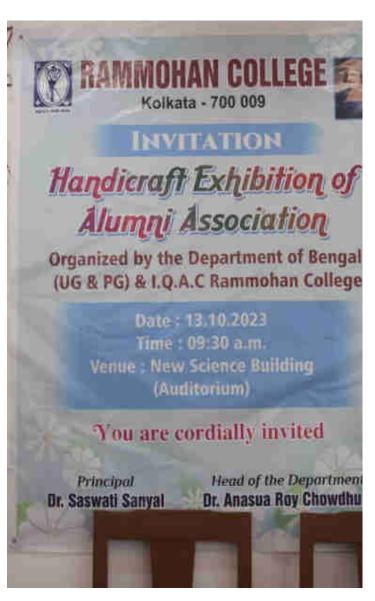
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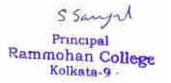
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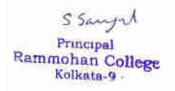
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Future plan

The abovementioned workshop and exhibition were organized by the college to make students forcefully expose to production, planning and innovative marketing. As a result students now become ready to develop a plan and accordingly may able to execute the same in the future, the capacity building.

Now we are going to strive for the provision of industry interaction and access to support incubators with skills for commercialization of their products.

This directive guidance may configure the life of the students towards the development of self-reliant people, the stepping stone of Atma *Nirbhar Bharat*.



