



CITY COLLEGE

Department of Botany

Affiliated to the University of Calcutta

102/1, Raja Rammohan Sarani, Kolkata – 700009

Website: www.citycollegekolkata.org

Ref. No. :

Date:

NOTICE OF WORKSHOP

Date: 02.11.2022

A Two-day State level workshop on hands-on technique of Basic Cell Biology Techniques is going to be organized by the Department of Botany and IQAC, City College Kolkata in collaboration with UGBOS-in-Botany, University of Calcutta on 25th and 26th November, 2022. Faculty members of different colleges willing to take part are cordially invited. Registration details and link for registration fee payment will be available in the Workshop Flyer to be uploaded on the College website and CBCS whatsapp group.

Sita Chatterjee
Principal 02/11/2022
City College



Nandini Chatterjee
2/11/22

Associate Professor and Head
Department of Botany
City College, Kolkata-9

STATE LEVEL WORKSHOP ON BASIC CELL BIOLOGY TECHNIQUES (25-26, November, 2022).

ORGANISED BY: CITY COLLEGE, DEPT OF BOTANY & IQAC.

IN COLLABORATION WITH UGBOS IN BOTANY- UNIVERSITY OF CALCUTTA

CO- ORDINATORS:

DR. BINOD KUMAR PATHAK (DEPT OF BOTANY, RAJA PEARY MOHAN COLLEGE, UTTARPARA), MOB. 9477233704
DR. SUJITA DATTA GHOSH (DEPT. OF BOTANY, CITY COLLEGE, KOLKATA) MOB. 9433860249

ACTIVITY REPORT OF BOTANY DEPARTMENT,
CITY COLLEGE

Activity — Workshop (State Level), organized by Dept. of Botany & IQAC (City College), in collaboration with UGBOS-IN-BOTANY (University of Calcutta)

- ① Title — State Level Workshop on Basic Cell Biology Techniques.
- ② Venue — Department of Botany, City College
- ③ Date — 25.11.2022 & 26.11.2022
- ④ Speaker / Resource Persons — The Resource

Persons of the workshop were -

1. Prof. Sandip Mukherjee (Dept. of Botany, C.U.)
2. Prof. Binoy Choube (Dept. of Botany, C.U.)
3. Prof. Rita Kundu (HOD, Dept. of Botany, C.U.)
4. Prof. Santanu Paul (Dept. of Botany, C.U.)
5. Dr. Sujita Datta Ghosh (Dept. of Botany, City College)
6. Dr. Amitava Roy (Dept. of Botany, Scottish Church College)
7. Dr. Soma Halder (Dept. of Botany, Ashutosh College)
8. Smt. Moutusi Sen (Dept. of Botany, Hoogly Mohosin College)
9. Smt. Saayela Chowdhury (Dept. of Botany, City College)

- ⑤ Brief objective — According to the CBCS system, most of the practicals topics introduced in practical syllabus of Semester V Botany Honours were new and there was no proper guideline to do those programmes uniformly. An idea came from different colleges to arrange a workshop on Cell Biology and Molecular Biology. The purpose of arranging such workshop was to do the hands on technique by different resource

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persons on a common platform so that everyone can learn a common method for a particular experiment and write a practical note-book on that. So, a state level workshop on basic Cell Biology Techniques was organised by the Botany Department, City College, Kolkata

- The main objective was to become familiar with Cell Biology Techniques on the topics introduced in the syllabus.

- Contents of the Programme :-

1. Counting cells per unit volume with the help of haemocytometer.
2. Cytochemical staining of DNA through Pyronin Y/G - Methyl-green staining.
3. Estimation of DNA content through DPA staining.
4. Estimation of RNA through Orcinol method
5. Study of nucleolus through haematoxylin/orcein staining and determination of nucleolus frequency in Allium cepa

- To standardize the classroom - friendly techniques of cell biology on the above topics
- Performance objective and goal of the objective was to conduct all the course related practicals manually by the resource persons and interaction among the esteemed teacher participants from different colleges.
- Objective was also to reduce the cost of the materials to be used for the practicals to run by different colleges and to maintain uniformity of the materials to use.

① Brief report — The State Level Workshop on Basic Cell Biology Techniques was sponsored by the Department of Botany and IQAC (City College, Kolkata) in collaboration with UGBOS-IN-BOTANY (University of Calcutta). Knowledgeable teachers of different colleges under University of Calcutta were invited to participate in a two days workshop, that was held on 25/11/2022 and 26/11/2022.

Dr. Sital Prasad Chattopadhyay (Principal, City College), Prof. Subir Bera (Chairman, UGBOS in Botany, University of Calcutta) and Dr. Arnab Choudhuri (IQAC Co-ordinator, City College) chaired the workshop.

The workshop on 25/11/2022 was inaugurated by the Principal (City College), the Vice-Principal (City College), UGBOS chairman and IQAC co-ordinator (City College) at 10:30 am. They all emphasized on the utility of conducting such workshop for the betterment of teachers as well as students and to carry out newly introduced Cell and Molecular Biology practicals in Vth Semester Honours syllabus under CBES system, which had already been started from August 2022. This was followed by a short tea-break session.

Prof. Sandip Mukherjee gave a keynote lecture (11:30 am. - 12:15 pm) about all the practical courses introduced.

The topics included —

1. Counting cells per unit volume with the help of haemocytometer
2. Cytochemical staining of DNA through Pyronin Y/G — Methyl green staining
3. Estimation of DNA content through DPA staining

- ④ Estimation of RNA through Orcinol method
- 5. Study of nucleolus through haematoxylin / orcein staining and determination of nucleolus frequency in Allium cepa
 — The lecture included the procedures in a nutshell with flowchart and figures and pictorial presentation. The presentation was very informative, colourful and beneficial.

The technical session (Technical Session I) began at 1:30 pm (on 25/11/22) after lunch break. The first experiment to demonstrate was "RNA estimation." The resource persons involved were Prof. Santanu Paul, Dr. Amitava Roy, Dr. Soma Halder, Dr. Sujita Datta Ghosh, Smt. Moutusi Sen and Smt. Saayela Chowdhury.

The second part of the technical session was demonstration of "Counting of cells by Haemocytometer." It began at 3:00 pm. The resource persons involved were Prof. Binoy Chaubey, Dr. Soma Halder and Smt. Saayela Chowdhury. The session continued till 4:45 pm. The technical part of the session was assisted by Dr. Arkajo Majumdar (City College).

The second day of the workshop (26/11/2022) started with the technical session (Technical Session II) at 10:30 am. "DNA estimation" was the first experiment to demonstrate. The resource persons involved were Prof. Santanu Paul, Dr. Amitava Roy, Dr. Sujita Datta Ghosh, Dr. Soma Halder, Smt. Moutusi Sen & Smt. Saayela Chowdhury.

The second part of the technical session began at 12:00 pm. after a short tea break. Prof. Rita Kundu, Dr. Sujita Datta Ghosh and Smt. Saayela Chowdhury were the resource persons involved to demonstrate "Nucleolar staining." This was followed by lunch break.

The technical session III started at 2:00 pm.

The practical experiment demonstrated was "Cytochemical staining of DNA and RNA". Dr. Sujita Datta Ghosh, Smt. Moutushi Sen & Smt. Saayek Chowdhury were the resource persons involved. The technical part of the session was assisted by Dr. Arkajo Mejumdar.

Printed materials of the practical topics were circulated among the participants.

The technical sessions were followed by tea break, and valedictory session. The entire workshop was a grand success. Dr. Binod Kumar Pathak (Raja Peary Mohan College), the co-ordinator of the workshop delivered vote of thanks. The workshop ended with presentation of certificates to all the participants.

- ① Outcome of the programme :- The feedbacks came from the teacher participants and 5th Semester Botany Honours students of our college was very good and satisfactory. According to them, the experiments or demonstrations carried out were very lucid and explained methodically.
- The plan of work was thoughtfully developed.
 - The printed materials supplied made sense and were appropriate for the theme of the workshop, Procedure, principle and observations given methodically.
 - The resource persons were prepared and enthusiastic about the subject matter. According to the participants they were knowledgeable personalities.
 - The event was successful as it would help the teachers to conduct the practical classes.
 - The practical demonstrations were well demonstrated, helpful and successful.

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- The facilities were superb and location of the college at the centre of Kolkata was very nicely communicable.
 - The food and hospitality were satisfactory enough.
 - According to the eminent teachers from different colleges, such event was very much required for the betterment of teaching and learning process.

STATE LEVEL WORKSHOP ON BASIC CELL BIOLOGY TECHNIQUES

Organised by :

**CITY COLLEGE
KOLKATA**

DEPT. OF BOTANY & IQAC

In Collaboration with,

**UGBOS – IN – BOTANY
– UNIVERSITY OF CALCUTTA**

Registration Details :

Registration Fee : Rs 1500

Last Date : 15th November 2022

Insight to the Programme:

OBJECTIVES

- ❑ To become familiar with basic cell-biology techniques.
- ❑ To standardize the classroom friendly techniques of cell-biology

CONTENTS OF THE PROGRAMME

- ❑ Counting cells per unit volume with the help of haemocytometer.
- ❑ Cytochemical staining of DNA through pyronin Y/G-methyl-green staining.
- ❑ Estimation of DNA content through DPA-staining.
- ❑ Estimation of RNA through orcein method.
- ❑ Study of nucleolus through hematoxylin/orcein staining and determination of nucleolus frequency in *Allium cepa*.

CO-ORDINATORS:

♦ **DR. BINOD KUMAR PATHAK**

(Dept of Botany ,Raja Peary Mohan College, Uttarpara)

CONTACT : 9477233704


♦ **DR. SUJITA DATTA GHOSH**

(Dept of Botany, City College , Kolkata)

CONTACT : 9433860249

Registration link:

<https://forms.gle/gzGc2hKsaptmbLhw9>

 **STATE LEVEL
WORKSHOP ON BASIC CELL
BIOLOGY TECHNIQUES**
On November 25-26, 2022
Organized by: **CITY COLLEGE KOLKATA**
DEPT. OF BOTANY & IQAC
In Collaboration with
**UGBOS - IN - BOTANY - UNIVERSITY O
CALCUTTA**




 **GPS Map Camera**

Kolkata, West Bengal, India
City College, Raja Ram Mohan Sarani Rd, Machuabazar,
Kolkata, West Bengal 700009, India
Lat 22.580212°
Long 88.369673°
25/11/22 11:07 AM GMT +05:30





 GPS Map Camera

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GPS Map Camera



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Kolkata, West Bengal, India

102/1, Raja Ram Mohan Sarani, College Street, Kolkata, West
Bengal 700009, India

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Long 88.370034°

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Kolkata, West Bengal, India

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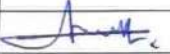
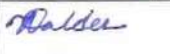

LIST OF PARTICIPANTS
State Level Workshop on Basic Cell Biology Techniques
Organised by
Department of Botany and IQAC, City College
In Collaboration with
UG-BOS in Botany, University of Calcutta
25- 26 November, 2022

Sl No.	Name	Designation	College	Phone No	Signature with Date	
1.	Dr. Dipasree Roychowdhury	Asst. Professor	Surendra Nath College	9830150908	<i>DRe</i> 26/11/22 dipasree.roychowdhury@yahoo.com	26/11/22
2.	Dr. Tandra Das	Asst. Professor	Narasinha Dutt College	9830440789	Tandra Das 26/11/22 ditanadra.das@gmail.com	
3.	Dr. Ranju Tamang	Asst. Professor	Vidyasagar College For Women	9932298451	Ranju Tamang ranjutanang@yahoo.com	26/11/22
4.	Dr. Dipu Samanta	SACT-I	Dr. Kanai Lal Bhattacharyya College	9230494969	Dipu 26/11/22 dipusamanta2010@gmail.com	
5.	Smt. Payel Chatterjee	SACT-II	Victoria Institution College	9875657079	Chatterjee 26/11/22 p27chatt@gmail.com	
6.	Sri Subhomoy Chatterjee	SACT-II	Sarsuna College	9432802304	Chatterjee 26/11/22 s08chatt@gmail.com	
7.	Dr. Mriganka Mandal	Asst. Professor	Dr. Kanai Lal Bhattacharyya College	9836165476	<i>M Mandal</i> 26/11/22 mriganka0009@gmail.com Mriganka Mandal	
8.	Dr. Papiya Saha	Asst. Professor	Bangabasi Morning college	9831054164	Papiya Saha piyakmail@gmail.com	Saha 26/11/22

9	Dr. Shibu Das	Asst. Professor	Rammohan College	7679473403	Shibudas@rammohancollege.ac.in	Shibu Das 26/11/22
10.	Dr. Kotisree Lahiri	Asst. Professor	Vidyasagar College	9433241811	kotisree.lahiri@gmail.com	Kotisree Lahiri 26/11/2022
11.	Mrs. Piyali Das	SACT-II	Budge Budge college	8336936641	denp03301@gmail.com	Piyali Das 26/11/22
12.	Dr. Phalguni Bhattacharyya	Assoc. Professor	Shibpur Dinobondhoo Institution	9836346816	phalgunimaldacollege@gnaii.cpa	Phalguni Bhattacharyya 26/11/22
13.	Dr. Smita Ray	Asst. Professor	Bethune College	9831160753	Smitaray2008@gmail.com	Smita Ray 26/11/22
14.	Mr. Swarnaditya Mondal	SACT-II	Dhruba Chandra Halder College	9874550804	aditya.swarnaditya@gmail.com	Swarnaditya Mondal 26/11/22
15.	Smt. Anasua Das	Asst. Professor	Shri Shikshayatan College	9430760267	anasuadas@yahoo.com	Anasua Das 26.11.22
16	Mr Debanjan Pandit- DEBANJAN PANDIT	SACT-I	Raidighi College	8777239612- 700331445	debanjan543@gmail.com	Debanjan Pandit 24/11/22
17.	Dr. Krishna Chaudhury	SACT-I	Dina Bandhu Andrews college	9433175945	Krishbot99@gmail.com	Krishna Chaudhury 26/11/22
18.	Dr. Gopal Dev Mandal	Asst. Professor	Ramsaday College	9474142504	gmandalind@gmail.com	Gopal Dev Mandal 26/11/22
19.	Dr. Suparna Pal	Asst. Professor	Lady Brabourne College	9830436204	Suparna Pal suparnep486@gmail.com	Suparna Pal 26/11/22
20.	Sourav Bhunia	Guest Lecturer	Bijoy Krishna Girls' college	7980096368	Sourav Bhunia bhunia199804@gmail.com	Sourav Bhunia 26/11/2022
21.	Dr. Salma Ghosh	SACT-I	South Calcutta Girls' College	9830469371	Salma@southcalcuttagirlscollege.com	Salma Ghosh 26/11/22
22.	Dr. Debarati Nag Roy	SACT-I	Netagi Nagar Day College	8240117939	debarati26@gmail.com	Debarati Nag Roy 26/11/22

23.	Mr. Sontu Bugh	Asst. Professor	Muralidhar Girls' College	943297829	sontu.bugh@gmail.com	Sontu Bugh 26/11/22
24.	Dr. Shruti Chattaraj Banerjee	SACT-1	Ananda Mohan College	7044904085	shruti.chattaraj@gmail.com	Shruti 26/11/22
25.	Dr. Mousumi Das	Asst. Professor	Vivekananda Girls' College for women, Behala	8621059087	dasumini222@gmail.com	Mousumi Das 26/11/22
26.	Dr. Sutapa Rai (kumar)	Assoc. Professor	Vivekananda College Thakurpukur	9433346882	sutapa.kumar.ra@gmail.com	Sai 26/11/22
27.	Dr. Susmita Ray	Asst. Professor	Netaji Nagar College for Women	9831633715	susmitanew@rediffmail.com	S 26.11.22
28.	Mr. Debapriya Ranjit	SACT II	Uluberia College	8240549447 9038502248	debapriya.ranjit@gmail.com	Debit 26.11.22
29.	Dr. Madhab Naskar	Asst. Professor	Sonarpur College	9433515851	mnsmbot@gmail.com	Mn
30.	Subhosree Bhattacharjee Subhasree Bhattacharyya	SACT - 1	Jogamaya Devi College	9830088308	subhosreebhattacharjee70@gmail.com	SB 26/11/22
31.	Dr. Surjit Sen	SACT-1 Asst. Professor	Fakirchand College Chand	9932989929	surjitsen@gmail.com	S 26/11/22
32.	Dr. Tapan Kumar Maitra	Assoc. Professor	Ananda Mohan College	9831865665		
33.	Dr. Tania Ghatak (Chakrabarty)	Asst. Professor	Shibpur Dinabandhoo Institution	9830517320	presit79@gmail.com	Tania 26/11/22
34.	Smt. Tanima Das	SACT- II	S.A. Jaipuria College			
35.	Dr. Sudip Kumar Roy	Asst. Professor	Charu chandra College	9674663512	sudiproy.du@gmail.com	Sudip Kumar 26/11/22
36.	Dr. Arundhati Pal	Asst. Professor	Serampore College	9830118047	arundhatipal@gmail.com	alar 26/11/22

37.	Dr. Debisri Datta	Assoc. Professor	Vidyasagar College	9830286667	debisri-datta21@yahoo.com	D Datta 26/11/22
38.	Dr. Moumita Datta	Asst. Professor	Rammohan College	9831865665	dr.moumitadatta@gmail.com	M Datta 26/11/22
39.	Anupam Mudi	Asst. Professor	Behala College	9476164134	pam67am@gmail.com	Mudi 26/11/22
40.	Dr. Sunipa Sen	SACT - II	Bangabasi Evening College	9038611460	sunipa@mailsunipasen@gmail.com	Sen 26/11/22
41.	Dr. Aditi Saha	Asst. Professor	Narasinha Dutt College	9831396775	aditi.saha3ahaad.12107@rediffmail.com	Saha 26/11/22
42.	Dr. Rita Paul	Asst. Professor	Charu Chandra College	983041003	ritapaul2000@gmail.com	R Paul 26/11/22
43.	Dr. Trayee Biswas	Asst. Professor	Bangabasi Morning College	9433516357	trayeebws@gmail.com	Biswas 26/11
44.	Dr. Mobina Parveen	Asst. Professor	Dhruva Chand Haldar College	8900502985	mobinabot@gmail.com	Parveen 26/11
45.	Dr. Mohsina Iqbal MOHSINA IQBAL	Asst. Professor	New Alipore College	9831181186	mohsina03@gmail.com	Iqbal 26/11
46.	Dr. Rimi Datta	Asst. Professor	T.H.K. Jain College	9830276311	rimidatta76@gmail.com	Rimi Datta 26/11/22
47.	Dr. Sonali Ray	Asst. Professor	Surendranath College	9830523354	sonyrr@gmail.com	Ray 26/11/22
48.	Dr. BulBul Biswas	SACT I	Vijoygarh Jyotish Ray College	9133063067	bulbulbanujeebiswas8955@gmail.com	B Biswas 26/11/22
49.	Dr. Prosenjit Chakraborty	Asst. Professor	Vedanta College	9475725405	nbu.prosen@yahoo.in	Chakraborty 26.11.22
50.	Dr. Rupa Chakraborty	Asst. Professor	Dinabandhu Andrews college	9903176267	drropachakraborty@gmail.com	Rupa Chakraborty 26/11/22

51.	Sourav Bhunia	Guest Lecturer	Bijoy Krishna Girls Colege			
52.	Dr. Asutosh Mukherjee	Asst. Professor	Vivekananda College	9432317125	ashutoshcaluniv@gmail.com	
53.	Taraknath Halder	SACT II	Gour Mohan Sachin Mondal Mahavidyalaya	9609093860	halder_taraknath@outlook.com	
54.	Dr. Gautam Kumar Pahari	Assoc. Professor	Gurudas College	8240829050	gpahari@gmail.com	 20/11/22
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