



**St. Xavier's College (Autonomous) Kolkata**  
Postgraduate and Research Department of Biotechnology  
**OUTREACH AND EXTENSION ACTIVITIES**



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## WORKSHOPS AND INTERNSHIP PROGRAMS

### FACULTY DEVELOPMENT PROGRAM

23<sup>rd</sup> to 30<sup>th</sup> November 2022

A Faculty development program titled as "Professional Scientific Development Program" was organized under the DBT Star College Scheme from 23<sup>rd</sup> to 30<sup>th</sup> November 2022. Dr. Sanjib Ganguly of the Department of Chemistry served as the convener. Dr. Jhimli Dasgupta was the Co Convener.





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## NATIONAL LEVEL WORKSHOP ON GUT MICROBIAL ANALYSIS

**13<sup>th</sup> and 14<sup>th</sup> June 2023**

A two day hands on training program on “Gut Microbiome Analysis” was organised by the Department on the 13<sup>th</sup> and 14<sup>th</sup> of July 2023. Eight deputed scientists from the Anthropological Survey of India (ANSI); GoI along with the Head of office Dr. Harshawardhana; participated in the workshop. Dr. Sayak Ganguli, who actively works in the field of gut microbiome, served as Coordinator for the workshop. Dr. Jhimli Dasgupta, HOD, Biotechnology and Dr. Mahashweta Mitra Ghosh from the Department of Microbiology, served as resource persons. Research scholars of both the Departments rendered the requisite technical support. The workshop was held at the Central Research Facility with the full support of Prof. Rina Ghosh. At the end of the workshop the participants participated in an interactive session with respected Principal, Rev. Dr. Dominic Savio SJ





## ALUMNI SEMINAR SERIES

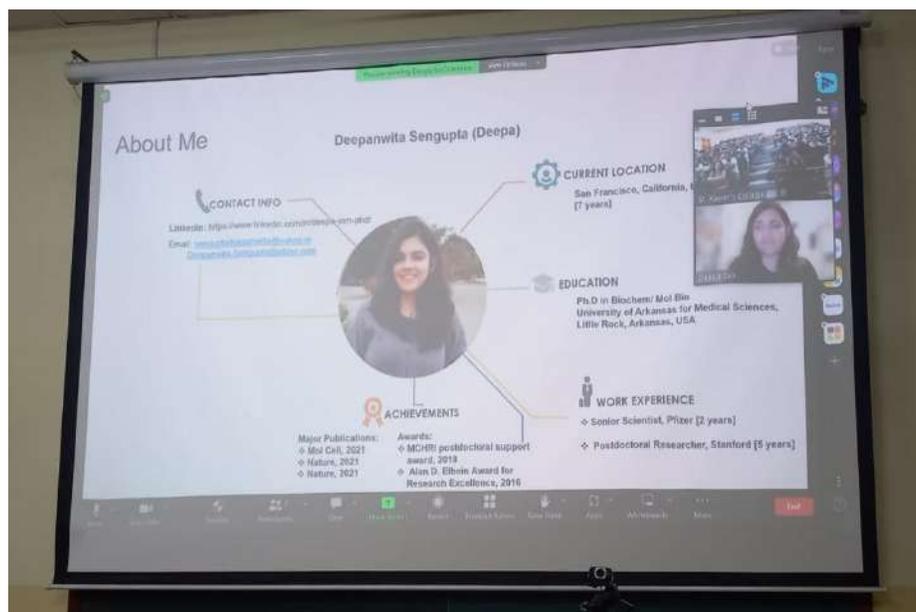
The Department has initiated a series of alumni seminar and interactive sessions from the current academic year. Alumni of the Department, currently placed at different national and international institutions of repute have been invited to deliver their presentations on their respective areas of research and the senior most batches semester 9 and semester 7 are participating wholeheartedly in the sessions which are being organized efficiently by Dr. Uma Siddhanta, and Dr. Jhimli Dasgupta.

Sl. No.	Date & Time	Room No.	Name	Batch	Current Affiliation	Broad Area of Presentation
1.	11/08/23 (Friday) 10-11a.m.	34	Deepanwita Sengupta, PhD.	2006-11	Senior Scientist, Pfizer, San Francisco, USA	Biochemistry & Molecular Biology
2.	22/08/23 (Tuesday) 3.00pm-4.00p.m.	MCV-2	Tamal Roy, PhD.	2006-11	Research Associate, Science of Intelligence Cluster, Technical University Berlin;	Behavioral Ecology and Evolution
3.	01/9/23 (Friday) 10-11a.m.	34	Rukmini Mukherjee, PhD.	2006-11	Scientist II, Walter Lab, Bay Area Institute of Science, Altos labs, Redwood City, California, USA.	Mitochondrial Dynamics and Quality Control
4.	12/09/23 (Tuesday) 3.00pm-4.00p.m. (Offline)	MCV-2	Rohini Dutta, PG Diploma in Patents Law, Registered Patent Agent	2007-12	Patent Attorney at S. Majumdar & Co.	Intellectual Property Rights.
5.	19/09/23 (Tuesday) 3.00pm-4.00p.m.	MCV-2	Juby Mathew, PhD.	2007-12	Application Scientist, Syft Technologies, Christchurch, New Zealand	Immunotherapy
6.	17/10/23 (Tuesday) 3.00pm-4.00p.m.	MCV-2	Stephanie Roshni Kaypee, PhD.	2006-11	Research Scientist, Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan	Epigenetics



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**SOME SNAPSHOTS OF THE PROGRAMS**



**Presentation By: Dr. Deepanwita Sengupta**



**Presentation By: Dr. Rukmini Mukherjee**



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**Presentation By: Dr. Tamal Roy**



**Presentation By: Ms Rohini Dutta**



**Presentation By Dr. Udayaditya Sarkar**



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## EDUCATIONAL EXCURSION

30<sup>th</sup> August 2023

Dr. Sayak Ganguli and Dr. Arindam Bakshi, organized the Educational Excursion to Vivekananda Institute of Biotechnology, Nimpith, where students of Semester VII enjoyed the hands on demonstration and theoretical discussions on practical and commercial applications of Biotechnology- such as Biofertilizer development and application, Mushroom cultivation, Honey Processing and Plant Micropropagation. They also performed a practical on Quadrat Studies on the campus.

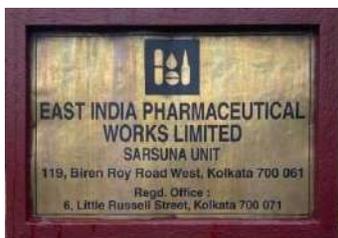




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## INDUSTRY VISIT

22<sup>nd</sup> and 23<sup>rd</sup> September 2023



Dr. Souvik Roy and Dr. Arindam Bakshi accompanied students of Semester V for an industry visit to East India Pharmaceutical Works Limited on 22<sup>nd</sup> and 23<sup>rd</sup> September 2023. The students enjoyed their visit as they were provided with required insights on how a pharmaceutical industry functions and the processes associated with it.





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## NEP CURRICULUM BASED INTERNSHIP WORKSHOP

29<sup>th</sup> and 30<sup>th</sup> May 2024

The Postgraduate and Research Department of Biotechnology collaborated with “Andragogy Life Sciences” for organizing a comprehensive Hands-on training program titled “Nurturing the RNA”. This program is specially designed for students with a background in life sciences and aims to provide them with valuable practical experience in the field.





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## NEP CURRICULUM ASSOCIATED INDUSTRY VISIT

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4<sup>th</sup> JUNE 2024

Dr. Souvik Roy and Dr. Arindam Bakshi accompanied students of Semester II for an industry visit to **Diamond Beverages Private Limited** on 4<sup>th</sup> June 2024. The students enjoyed their visit as they were provided with required insights on how a beverage industry functions and the processes associated with it.





## OTHER OUTREACH ACTIVITIES

### FIELD TRIPS FOR RESEARCH

EVENT DESCRIPTION	IMAGE
<p>Research Team from the lab of Dr. Sayak Ganguli, visited the tribal settlements of <i>Purulia</i> and adjoining areas for collection of samples as part of the project in collaboration with Department of Anthropology, University of Calcutta. The team was supported by the SDo Mr. Monojit Basu during the collection schedule.</p>	
<p>Field trip to Indian Sunderbans for collection of plant and soil samples for bioprospecting studies.</p> <ul style="list-style-type: none"> <li>A) With MSc Dissertation students and scholars at Satjelia island, Indian Sunderbans in 2022</li> <li>B) With MSc Dissertation students and scholars at Hamilton Island, Indian Sunderbans in 2022</li> <li>C) With MSc Dissertation students and scholars at Kumirmari, Indian Sunderbans for sample collection in 2023</li> <li>D) With MSc Dissertation students and scholars at Kumirmari, Indian Sunderbans for sample collection in 2023</li> </ul>	



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## OTHER OUTREACH ACTIVITIES

### FIELD TRIPS FOR RESEARCH

EVENT DESCRIPTION	IMAGE
<p>Research Team from the lab of Dr. Sayak Ganguli visited the Indian Sunderbans as part of a Field trip core uninhabited islands for collection of plant and soil samples for Bioprospecting studies. 30<sup>th</sup> March 2024</p>	
<p>Research Team from the lab of Dr. Sayak Ganguli visited the Sagar island of Indian Sunderbans as part of a Field trip in collaboration with Paribesh Unnayan Parishad for a research based livelihood development project on the 14<sup>th</sup> of June 2024</p>	



## OTHER OUTREACH ACTIVITIES

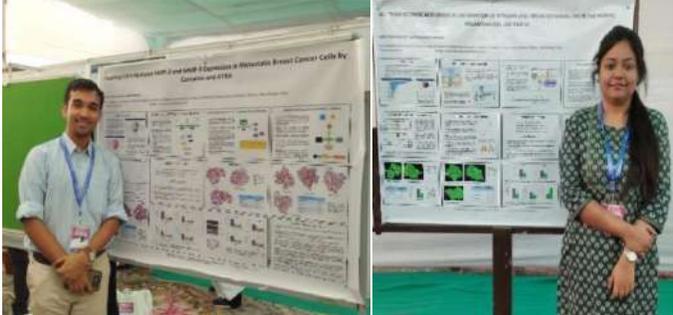
### ORAL AND POSTER PRESENTATION BY RESEARCH SCHOLARS

EVENT DESCRIPTION	IMAGE
<p>Best Poster Award One Day International Seminar on Recent Trends in Microbiology on 18<sup>th</sup> May 2022 at VJRC, Kolkata [Poster presenter Mr. Rohan Pal, BMBT, SEM 10 student under the supervision of Dr. Sayak Ganguli]</p>	
<p>Preeti Khan, working under the supervision of Dr. Ronita Nag Chaudhuri, presented her work in the American Society for Biochemistry and Molecular Biology Conference held at Seattle, Washington, USA, in 2022.</p>	
<p>Judges' Special Appreciation Award. "Creating a Mangrove endophyte bacterial collection for targeted genome editing." International Seminar and Workshop on CRISPR/Cas-based Plant Functional Genomics &amp; Computational Modelling, organized by CSIR - North East Institute of Science and Technology, Jorhat, Assam (17<sup>th</sup> to 21<sup>st</sup> January 2023): Gaurab Aditya Dhar.</p>	



## OTHER OUTREACH ACTIVITIES

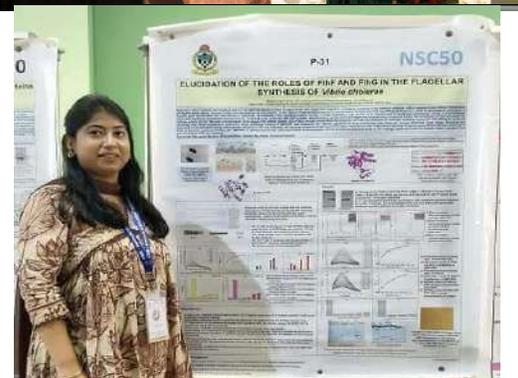
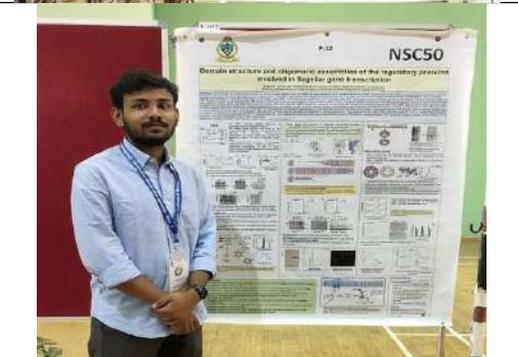
### ORAL AND POSTER PRESENTATION BY RESEARCH SCHOLARS

EVENT DESCRIPTION	IMAGE
<p>1. Best Poster Award (UG and PG students category): Arunima Bhattacharya; @ICCCGC, Kolkata; 26th and 27th August 2022</p> <p>2. 3<sup>rd</sup>Prize in Poster (Research Scholar Category): Sarmistha Mukhopadhyay @ICCCGC, Kolkata 26th and 27th August 2022</p> <p>3. Second Prize in Young Researcher (s) Category: Nabarun Dawn and Souptik Ghosh @ICCCGC, Kolkata, 26th and 27th August 2022</p> <p>All the above awards were won by scholars and students working under Dr. Sayak Ganguli</p>	
<p>Mr. Anirban Roy, and Ms. Indira Chakraborty, Research Scholars working under Dr. Aniruddha Banerji presented their work at the International Conference of the Indian Association for Cancer Research 2023</p>	
<p>Mr. Saptarshi Dutta, Research Scholar working under the supervision of Dr. Ronita Nag Chaudhuri, presented his work at ISBT_2023 and was awarded the 1<sup>st</sup>prize in Poster presentation (Research Scholar category)</p>	



## OTHER OUTREACH ACTIVITIES

### ORAL AND POSTER PRESENTATION BY RESEARCH SCHOLARS

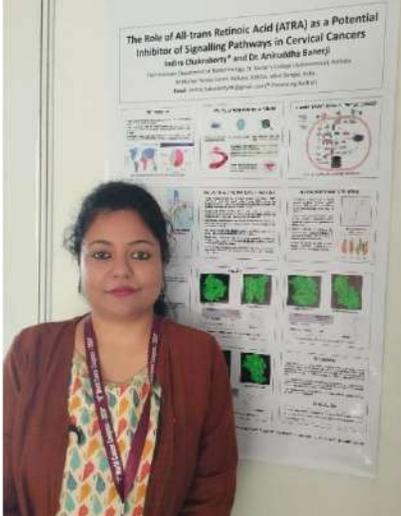
EVENT DESCRIPTION	IMAGE
<p>2<sup>nd</sup> Prize in Oral presentation was received by Shrestha Chakraborty working under the Supervision of Dr. Jhimli Dasgupta in ISBT, 2023 held at St. Xavier's College (Autonomous), Kolkata on 12-13th October, 2023</p>	
<p>3<sup>rd</sup> Prize in poster presentation was received by Indrila Saha working under the Supervision of Dr. Jhimli Dasgupta in ISBT, 2023 held at St. Xavier's College (Autonomous), Kolkata on 12-13th October, 2023</p>	
<p>Ms. Ruchira Das, working under the supervision of Dr. Jhimli Dasgupta, presented her work at the 50<sup>th</sup> meeting of Indian Crystallographic Association held at IMTECH Chandigarh (NSC50); November 2023</p>	
<p>Poster presentation by Arnab Das working under the Supervision of Dr. Jhimli Dasgupta in NSC50, held at CSIR-IMTECH, Chandigarh during November, 2023</p>	



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### ORAL AND POSTER PRESENTATION BY RESEARCH SCHOLARS

EVENT DESCRIPTION	IMAGE
<p>Ms. Drishti Mandal under the supervision of Dr. Ronita Nag Chaudhuri, was awarded the third prize in Oral Presentation at the International Conference on Current Trends and Future Prospects of Plant Biology (CTFPB - 2023) organized by Department of Plant Sciences, School of Life Sciences, University of Hyderabad, 2023</p>	 <p>The image shows a group of three people on a stage. A woman in a white dress is receiving a certificate from a man in a grey suit. Another man in a blue vest stands to the left. To the right is a scan of the certificate. The certificate is titled 'Best Presentation Award' and is awarded to Drishti Mandal of St. Xavier's College, Kolkata, West Bengal, for her outstanding oral presentation at the International Conference on Current Trends and Future Prospects of Plant Biology (CTFPB-2023) in Hyderabad, India.</p>
<p>Mr. Anirban Roy working under the supervision of Dr. Aniruddha Banerji was awarded the First prize in Poster Presentation at Bio Colloq: One Day Conference on Inter-Disciplinary Biological Sciences, organized by Ramakrishna Mission Vivekananda Centenary College (Autonomous), Rahara &amp; Academy of Biodiversity Conservation, Jan 2024</p>	 <p>The image shows five people on a stage. A woman in a blue saree is presenting a trophy to a man in a yellow shirt. Other people are standing around them, including a man in a grey jacket and a man in an orange kurta.</p>
<p>Ms Indira Chakraborty working under the supervision of Dr. Aniruddha Banerji presented a poster at 8<sup>th</sup> World Cancer Congress-2024, organized at JNU Convention Centre, New Delhi, March 2024.</p>	 <p>The image shows a woman in a red jacket standing in front of a scientific poster. The poster is titled 'The Role of All-trans Retinoic Acid (ATRA) as a Potential Inhibitor of Signalling Pathways in Cervical Cancers' and lists the authors as Indira Chakraborty and Dr. Aniruddha Banerji. It includes various diagrams and images related to the research.</p>



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## Invited Lectures and Resource Person FACULTY



**Invited Lecture of Dr. Jhimli Dasgupta, on “Structural insights into the TCS, made of  $\sigma^{54}$ -dependent transcription activator FlrC, and sensor histidine kinase FlrB, that regulates flagellar synthesis of *Vibrio cholerae*” – India Biophysical Society, Kolkata Chapter 14<sup>th</sup> May 2025, at S. N. Bose National Centre for Basic Sciences**



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## Invited Lectures and Resource Person FACULTY



**Invited Lecture of Dr. Ronita Nag Chaudhuri, on “Orchestration of histone modifications: the chromatin code for transcription regulation” – Transcription Assembly Meeting 2025, 19<sup>th</sup> to 21<sup>st</sup> March 2025, Bose Institute, Kolkata**



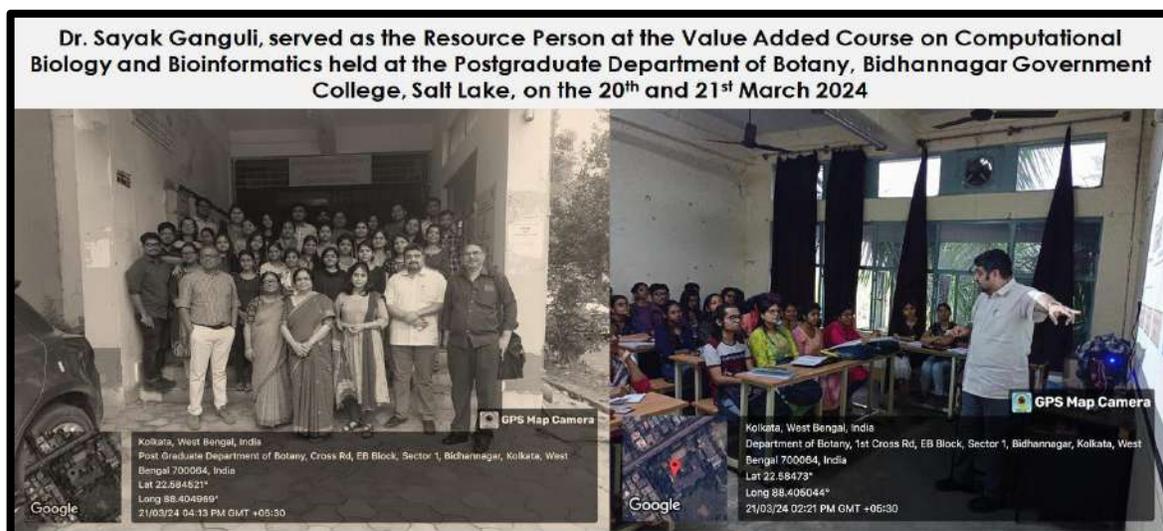
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## Invited Lectures and Resource Person

### FACULTY



Lecture Title: "Community Genomics – A paradigm for Environmental Monitoring"



Presentation Title: "Bioinformatics – From Sequence to Function" – extensive hands on practical session was also conducted during the Course sessions



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### FACULTY



**Lecture Title: "Structural insights into the roles of three regulatory proteins FlrA, FlrB and FlrC in flagellar gene transcription of motile bacteria"**



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## **Awards and Recognition**

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- Dr. Ronita Nag Chaudhuri has been elected as a Fellow of the West Bengal Academy of Science & Technology (WAST) in January, 2025



## Chairing of Sessions, Oral and Poster Presentations

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1. **Dr. Jhimli Dasgupta** chaired a Plenary Session at the International Symposium on Biotechnology (ISBT)-2023, organized by the Post-Graduate & Research Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata;
2. **Dr. Aniruddha Banerji** served as the Convenor (Proceedings Committee) and conducted the Session on the release of the "Proceedings of the International Symposium on Biotechnology"
3. **Dr. Souvik Roy** chaired two scientific Sessions at the International Symposium on Biotechnology (ISBT)-2023, organized by the Post-Graduate & Research Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata;
4. **Dr. Priyanka De**, chaired a plenary Session at the International Symposium on Biotechnology (ISBT)-2023, organized by the Post-Graduate & Research Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata;
5. **Dr. Ditipriya Hazra** chaired a plenary session at the International Symposium on Biotechnology (ISBT)-2023, organized by the Post-Graduate & Research Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata;
6. **Dr. Arindam Bakshi** chaired a plenary session at the International Symposium on Biotechnology (ISBT)-2023, organized by the Post-Graduate & Research Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata;
7. **Dr. Souvik Roy**, received the **BEST ORAL PRESENTATION AWARD (NATIONAL-LEVEL AWARD)** on "Assessing Public Health and Sanitation Status to promote Preventive Healthcare In India" at a National Conference on "Current Industrial Trends in Life Science Research", 2023, organized by ITLS Academy, Lucknow and Microbiologists Society, India
8. **Dr. Souvik Roy** presented a paper On "Garlic – A Novel Green Pharmacy for TB & MDR-TB" at the International Seminar on "Microbes and Social Equity (ISMS)", 2023, organized by the Department of Microbiology & IQAC, Bankura Sammilani College, Bankura, West Bengal, and sponsored by Microbiologists Society of India (MBSI; Reg. No. MAHA/4814/SAT)
9. **Dr. Souvik Roy** presented a paper On "Bacteria & Cosmetics –the 'Industry' connect!" at the International Conference on "Scope of Microbiology beyond Academia: Industry,

Entrepreneurship and More”, 2024, organized by Department of Microbiology, Placement Cell & Microbiology Alumni Association, Vijaygarh Jyotish Ray College, in collaboration with Microbiologists Society of India;& E-YUVA Centre, Adamas University (Supported byBIRAC)

10. **Dr. Souvik Roy** presented a Poster titled “Microbial Organic Compounds in Cosmetics & Perfumes: A Comprehensive Peep-through!” at the International Symposium on ‘Modern Perspectives of Chemistry in Biology’, organized by the Department of Chemistry, St.Xavier’s College (Autonomous), Kolkata.



11. **Dr. Souvik Roy** participated and completed the UGC-sponsored Short-Term Course on ‘Research Methodology in Science and Technology’, organized by UGC-Human Resource Development Centre (HRDC), University of Calcutta, from 6th February 2024 -12th February 2024.

12. **Dr. Sayak Ganguli** served as a National Advisory Committee Member and Session Chair for the International Conference on Drug Design and Discovery organized by Jadavpur University Bioequivalence Unit and Eminent College of Science and Technology held at Barasat on 27.02.2025 and 28.02.2025

13. **Dr. Sayak Ganguli** served as a Session Chair at the International Conference on Chemical and Environmental Sciences 2024 and 2025 for sessions on Computational Modelling organized by University of Engineering and Management.



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## SYMPOSIUM

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**ISBT2023: International Symposium on Biotechnology organized by Post Graduate and Research Department of Biotechnology of SXC, Kolkata on 12<sup>th</sup> - 13<sup>th</sup> October, 2023**

### **[LINK TO EDUGRAPH COVERAGE](#)**

**ISBT2024: International Symposium on Biotechnology organized by Post Graduate and Research Department of Biotechnology of SXC, Kolkata on 12<sup>th</sup> - 13<sup>th</sup> November, 2024**

### **[LINK TO EDUGRAPH COVERAGE](#)**

## SXC-INTRAMURAL GRANT AWARDEES

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1. Dr. Sayak Ganguli(2023,2024)
2. Dr. Arindam Bakshi(2023)
3. Dr. Ditipriya Hazra(2023)
4. Dr. Souvik Roy(2023)