

**International Conference on Recent Trends in Biotechnology & Chemistry jointly organized by the  
Department of Molecular Biology and Biotechnology and the Department of Chemistry in the  
Academic Year 2022-23**

<p><b>KEYNOTE SPEAKERS</b>  <b>Prof. Debashis Chatterjee</b>                  Department of Chemistry,                  University of Kalyani</p> <p><b>Prof. Chittaranjan Sinha</b>                  Department of Chemistry,                  Jadavpur University</p> <p><b>INVITED SPEAKERS</b></p> <p><b>Prof. Tapas Kr. Bandyopadhyay</b>                  Department of Molecular Biology &amp;                  Biotechnology,                  University of Kalyani</p> <p><b>Prof. Mahendra Nath Roy</b>                  Founder Vice-Chancellor,                  Alipurdwar University,                  Senior Professor of Chemistry, NBU</p> <p><b>Prof. Amiya Kumar Panda</b>                  Department of Chemistry,                  Vidyasagar University, Midnapore,                  West Bengal</p> <p><b>Dr. Jishnu Adhikari</b>                  Tetra Tech, Mall Boulevard,                  King of Prussia, PA, USA</p> <p><b>Dr. Jitendra A. Kewalramani</b>                  Tetra Tech, Mall Boulevard,                  King of Prussia, PA, USA</p> <p>All the correspondence should be addressed to:  <a href="mailto:abhishek@mbsbsripatsinghcollege.in">abhishek@mbsbsripatsinghcollege.in</a></p>	<p><b>ORGANIZING COMMITTEE</b>  <b>CHIEF PATRON</b>                  Mrs. Shaoni Singha Roy                  President, GB, Sripat Singh College</p> <p><b>PATRON</b>                  Dr. Kamal Krishna Sarkar                  Principal, Sripat Singh College</p> <p><b>CONVENER</b>                  Dr. Abhishek Basu</p> <p><b>JOINT CONVENER</b>                  Dr. Amit Kumar Kundu</p> <p><b>ORGANIZING SECRETARY</b>                  Ms. Debjani Mandal                  Dr. Raja Ghosh                  Dr. Md. Habib</p> <p><b>TREASURER</b>                  Mrs. Manali Biswas                  Mr. Manirul Mandal                  Mr. Abu Raihan</p> <p><b>HONORARY MEMBERS</b>                  Dr. Abdul Kader Ahammed                  Dr. Himadri Guhathakurta                  Dr. Sagar Simlandy                  Dr. Amal Modak                  Mr. Ashok Kr. Biswas                  Dr. Bibhas Bhattacharyya                  Mr. Swapan Kr. Sarkar                  Mrs. Gopa Chanda                  Mr. Saswata Chakraborty</p> <p><b>OTHER MEMBERS OF THE ORGANIZING COMMITTEE</b>                  Mrs. Ranu Singha                  Mr. Md. Samirul Islam</p> <p>All teaching and non-teaching staff of Sripat Singh College are members of the conference committee.</p>	<p>International Conference on</p> <h1>Recent trends in Biotechnology &amp; Chemistry</h1> <p>20<sup>th</sup> of December, 2023</p>    <p>Jointly Organized By:  <b>Department of Molecular Biology &amp; Biotechnology</b>                  and  <b>Department of Chemistry</b>                  in collaboration with IQAC                  Sripat Singh College,                  Jiaganj, Murshidabad,                  West Bengal, India  <a href="https://www.sripatsinghcollege.edu.in">https://www.sripatsinghcollege.edu.in</a>                  Venue: Sripat Singh College</p>
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<p><b>About Sripat Singh College</b></p> <p>Legendary Jamindar Sripat Singh Dugar founded this college in 1949 with a view to spread higher education in the remote and backward district of Murshidabad. Started as a unit under Calcutta University, the college is presently affiliated to University of Kalyani. Sripat Singh College caters to the need of UG students of science &amp; humanities and PG students of Bengali. The college has emerged as a centre of excellence in learning and research activities during its journey of 75 years. Department of Molecular Biology &amp; Biotechnology and Department of Chemistry of this college received infrastructural grants (under BOOST and FIST Scheme) and research grants from WBDST to construct well equipped labs and carry on research activities. The students of these departments have secured positions in nationally &amp; internationally acclaimed institutions.</p> <p><b>Objectives of the conference</b></p> <p>The international conference provides a platform for interaction of industry, academia and budding scientist. Eminent resource persons will share their cutting edge research with the students and inspire them to pursue a career in academia/research to combat the environmental and societal challenges faced by the humanity.</p> <p><b>Post Conference Publication</b></p> <p>Participants will be invited to contribute original and unpublished research work related to any field of biology and chemistry for publication through internationally acclaimed publisher. The details of post conference publication will be announced in due course of time.</p>	<p><b>Participation and Abstract Submission</b></p> <p>Participation is open to all involved in the field of Science R&amp;D, teaching, consultancy, etc., from all over the world. Participants are invited to submit abstracts for oral/poster presentation. Abstract must be submitted to <a href="mailto:abstractbiotechchem@gmail.com">abstractbiotechchem@gmail.com</a> according to the format shown in the 'Abstract Template' by 15.12.2023. Best poster and oral presentation will be felicitated. Preference will be given to the original and unpublished research works.</p> <p><b>Abstract Template:</b>  <a href="https://docs.google.com/document/d/1WV9H0FKCWpVvwc3Y00yhV9fE5N1JvL/edit?usp=drive_link&amp;oid=104660690089995448394&amp;rtopof=true&amp;sd=true">https://docs.google.com/document/d/1WV9H0FKCWpVvwc3Y00yhV9fE5N1JvL/edit?usp=drive_link&amp;oid=104660690089995448394&amp;rtopof=true&amp;sd=true</a></p> <p><b>The conference covers (but not limited to) the following research areas:</b></p> <ul style="list-style-type: none"> <li>• Bioremediation- A tool for sustainable development</li> <li>• Application of Biotechnology for sustainable development</li> <li>• Bioinformatics and Systems &amp; Synthetic Biology</li> <li>• Mathematical Methods and Models in Biological &amp; Chemical Sciences</li> <li>• Cutting edge research in Life Science and Chemistry</li> <li>• Host Guest Inclusion Chemistry</li> <li>• Environmental Chemistry</li> <li>• Colloids and Surface Chemistry</li> <li>• Nanoscience and Nanotechnology</li> </ul> <p><b>Important Dates</b></p> <ul style="list-style-type: none"> <li>• Abstract Submission Closes :15/12/2023</li> <li>• Acceptance Notification: 16/12/2023</li> <li>• Registration Closes: 15/12/2023</li> </ul> <p><b>Registration Link:</b>  <a href="https://forms.gle/then1vgeovGteBAY6">https://forms.gle/then1vgeovGteBAY6</a></p>	<table border="1"> <tr> <th colspan="2">Registration Fee*</th> </tr> <tr> <th colspan="2">Indian Delegates</th> </tr> <tr> <td>Faculty Members</td> <td>Rs. 500</td> </tr> <tr> <td>Research Scholars**</td> <td>Rs. 300</td> </tr> <tr> <td>Students**</td> <td>Rs. 100</td> </tr> <tr> <td>Accompanying Person</td> <td>Rs. 200</td> </tr> <tr> <th colspan="2">International Delegates</th> </tr> <tr> <td>Scientist/Faculty Members</td> <td>30\$</td> </tr> <tr> <td>Research Scholars**</td> <td>25\$</td> </tr> <tr> <td>Accompanying Person</td> <td>20\$</td> </tr> </table> <p>*The registration fee should be paid by demand draft (drawn from any nationalized bank in favor of Sripat Singh College)/NEFT/ RTGS to the account number given below. Payment details must be uploaded during the registration process.                  **For research fellows and students, a certificate from the head or supervisor on the institutional letterhead is required for application.</p> <table border="1"> <tr> <th colspan="2">Bank Details</th> </tr> <tr> <td>Account Name</td> <td>Principal Sripat Singh College</td> </tr> <tr> <td>Name of the Bank</td> <td>Bank of Baroda</td> </tr> <tr> <td>Branch Name and Code</td> <td>Jiaganj, JIAGAN</td> </tr> <tr> <td>Current Account</td> <td>5256010000001</td> </tr> <tr> <td>RTGS/NEFT IFSC Code</td> <td>BARB0JIAGAN (5th character is zero)</td> </tr> </table> <p>For accommodation and travel related query please contact: Dr. Abhishek Basu (+919432994062)  <b>Note:</b> TA/DA shall not be provided for attending the conference.</p>	Registration Fee*		Indian Delegates		Faculty Members	Rs. 500	Research Scholars**	Rs. 300	Students**	Rs. 100	Accompanying Person	Rs. 200	International Delegates		Scientist/Faculty Members	30\$	Research Scholars**	25\$	Accompanying Person	20\$	Bank Details		Account Name	Principal Sripat Singh College	Name of the Bank	Bank of Baroda	Branch Name and Code	Jiaganj, JIAGAN	Current Account	5256010000001	RTGS/NEFT IFSC Code	BARB0JIAGAN (5th character is zero)
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An International Conference on Recent Trends in Biotechnology & Chemistry was jointly organized by the Department of Molecular Biology and Biotechnology and Department of Chemistry, Sripat Singh College, Jiaganj, Murshidabad, West Bengal, India in collaboration with IQAC on 20th of December, 2023 from 9.30 AM.

Dr. Abhishek Basu, Assistant Professor of the Department of Molecular Biology and Biotechnology was the Convener, whereas, Dr. Amit Kumar Kundu, Assistant Professor from the Department of Chemistry was the Joint Convener of this conference. Mrs. Shaoni Singha Roy, President, GB, Sripat Singh College was the Chief Patron and Principal of Sripat Singh College, Dr. Kamal Krishna Sarkar was the patron of this international conference. The entire conference was hosted by convener Dr. Abhishek Basu.



**Inaugural Speech of Our  
Principal Dr. Kamal Krishna  
Sarkar**



**Program hosted by Our  
HOD Dr. Abhishek Basu**

More than 201 participants were present in both offline and online modes, including faculties of Sripat Singh College, students mainly from the Molecular Biology & Biotechnology and Chemistry Departments, research scholars from different universities and faculties of different colleges attended this conference. The program began with a registration period from 9:00 to 9:30 am, followed by the first session of the day.



**Registration Desk**



**Participant in conference Hall**

Dr. Kamal Krishna Sarkar, the esteemed Principal of Sripat Singh College, inaugurated the conference. Prof. Debashis Chatterjee from the Department of Chemistry at the University of Kalyani graced the event with a keynote speech through online mode and delivered his lecture on “**Arsenic heterogeneity in groundwater and its health effects**”. The international dimension of the conference was highlighted by the lectures from Dr. Jitendra A. Kewalramani and Dr. Jishnu Adhikari, both representing Tetra Tech from the USA. They delivered their lectures through online platform which shed light on the latest advancements in Heavy metal contamination of groundwater and soil and its spatial distribution. Prof. Mahendra Nath Roy, the Vice-Chancellor of Alipurduar University and a Professor of Chemistry at NBU delivered a lecture on “Plastics and its advantages and disadvantages” that was both informative and inspiring.



**Chief Guest and Patron were felicitated by Ms. Debjani Mandal, Organizing Secretary of the Conference**

The session before lunch saw another keynote speech and lecture by chief guest Prof. Chittaranjan Sinha from the Department of Chemistry at Jadavpur University on the topic “**Life on Land and in Water: Demand for Knowledge of Water Quality for Good Health and Wellbeing**”. His expressive presentation enchanted the audience with ease and clarity. Prof. Tapas Kr. Bandyopadhyay and Prof. Amiya Kumar Panda, from the University of Kalyani and Vidyasagar University respectively, shared their expertise in Molecular Biology & Biotechnology and Chemistry on “**Arsenic bioremediation & plant growth promotion**” and “**Simple approach in synthesis and characterization of nanoparticles**”, respectively.





**Prof. Chittaranjan Sinha delivering his lecture**



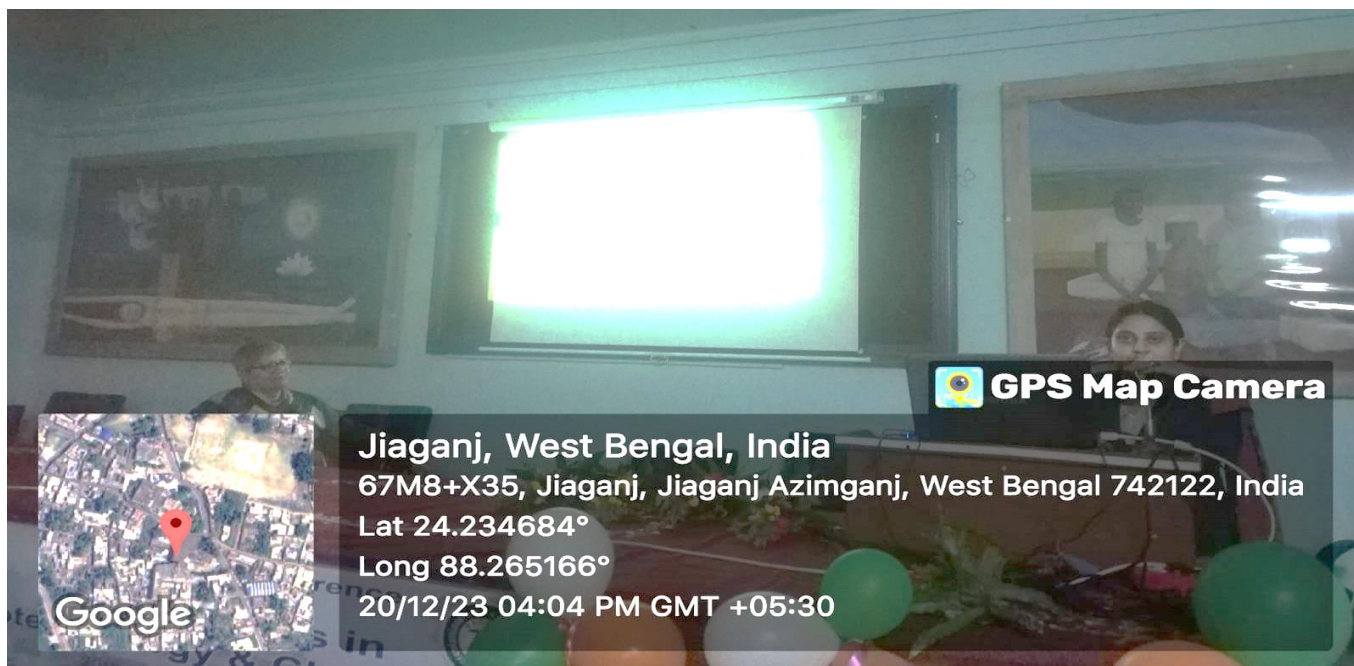
**Prof. Tapas Kr. Bandyopadhyay delivering his lecture**

Following a lunch break, the seminar resumed with a poster session presented by the students. Prof. Tapas Kr. Bandyopadhyay and Prof. Chittaranjan Sinha judged this interactive segment. They precisely reviewed the research posters, engaging in meaningful conversations with the students about their work and the potential impact of their findings.



**Students interacted with the Expert during Poster Presentation**

Simultaneously, in another room, oral presentations were taking place which were delivered by research scholars and faculty members. This session offered a stage for researchers to share their findings. Dr. Sukumar Mal, who has retired from the Department of Chemistry at Sripat Singh College, was in charge of judging the session.



### **Dr. Sukumar Mal was judging during the Oral Presentation**

The conference concluded with the last speech of renowned speaker Dr. Santanu Majumder, Lecturer from the Department of Life and Environmental Sciences at Bournemouth University, UK. He provided a complete view of the subject of ultra-trace detection of labile Arsenic and its biomonitoring. In the end, the prizes were given to the participants of the poster and oral presenters who had come up with the best new ideas.



### **Some Glimpses of Prize Distribution**

All the students and faculty members highly appreciated the lectures of the eminent persons and provided positive feedback about this international conference. They also demanded more of such events. The conference ended with the valedictory speech given by Ms. Debjani Mandal (organizing secretary), assistant Professor, Department of Molecular Biology and Biotechnology.





**Organizing Secretary delivering her valedictory speech at the end**