

**SRIJON SEN**  
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**SRIJON SEN**  
11-12-2016

**Postgraduate Student**  
**Supervisor: Prof. Soumya De**  
**Department of Bioscience**  
**Indian Institute of Technology**  
**Kharagpur, West Bengal**  
**India- 721302.**

## OBJECTIVE

As a visionary cum performer of Biochemistry, Biology and Chemistry, I find immense pleasure in exploring the various mysteries that Biology and Chemistry has to offer in a competitive environment, in group or as an individual which enhances my own skills too. I look forward to a career in research and academics where I would try to achieve a position to disseminate my acquired knowledge and help to build worlds' best manpower.

## RESEARCH EXPERIENCE

- Presently pursuing MSc project on “**Structural and dynamic basis of Peptidyl tRNA hydrolase**” under the supervision of **Prof. Soumya De, Department of Chemical and Molecular Biology, IIT Kharagpur, West Bengal**.
- Pursued MSc dissertation on “**Structural, Functional, and Therapeutic Investigation of Ion-channel like Viroporins of Corona and other Viruses**” under the supervision of **Dr. Sanjay Kumar Dey, Department of Biological Sciences, Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi**, during April, 2021 till August, 2021.
- Pursued MSc dissertation on “**Green Chemistry and Polymer Chemistry**” under the supervision of **Dr. Sayam Sengupta, Department of Chemistry, IISER Kolkata**, during May, 2020 till July, 2020.

## ACADEMIC QUALIFICATIONS

Name of the Exam	Board/University	Year of Passing	Percentage/ Division	Achievements
Secondary	I.C.S.E.	2015	92.00/ 1 <sup>st</sup>	Top-10 in School among all subjects; “Subarna-Banik” Award
Higher Secondary	I.S.C.	2017	86.67/ 1 <sup>st</sup>	“Subarna-Banik” Award
B.Sc. (Chemistry Hons.)	Ramakrishna Mission Vivekananda Centenary College, Rahara (Autonomous)	2020	73.88/ 1 <sup>st</sup>	Top-10 among all Honors subjects in the college

M.Sc. (Chemical and Molecular Biology)	Indian Institute of Technology, Kharagpur	2022	Appearing	N.A.
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## COMPETITIVE EXAMS QUALIFIED

- **JOINT ADMISSION TEST, IIT KANPUR**, MSc. entrance test, Feb 2020. All India Rank: 1629
- **JGEEBILS 2022, TIFR**, PhD entrance test in Biology

## FELLOWSHIPS

1. **IACS sponsored Masters Fellowship** from September, 2020 to August, 2022.

## TOOLS AND TECHNIQUES KNOWN

- **Chemistry: Physical Chemistry** (Chemical Kinetics, Conductimetry, Kinetics of gas, viscosity measurement, Potentiometry, Phase chemistry), **Inorganic Chemistry** (Qualitative and Quantitative semimicro analysis, Redox titration, iodometry and iodimetry, Complexometric, Inorganic preparations, Spectrometry, Gravimetry, Chromatography) **Organic Chemistry** (Separation, determination of boiling and melting points, Preparation and purification techniques, Qualitative Analysis of Single Solid Organic Compounds), **Analytical Chemistry, Green Chemistry, Computational Chemistry** and **Industrial Chemistry**.
- **Biochemistry, Biophysics, and Cell Biology**: UV-Visible absorbance spectroscopies, mass spectrometry, Preparative Ultra Centrifuge, FPLC; Enzyme kinetics; Gel Electrophoresis (SDS PAGE, native PAGE); Chromatographic techniques (Ni-NTA chromatography, Preparative and Analytical Size Exclusion Chromatography); Protein concentration; Buffer exchange methods; Protein purification; Microscopy and Imaging (optical microscopy, confocal fluorescence microscopy, Total internal reflection Fluorescence microscopy); Molecular interaction (Surface Plasmon Resonance).
- **Molecular and Microbiology**: Protein structural analysis, running SDS PAGE and bacterial inoculation techniques – subculture, streaking, spread plate.
- **Bioinformatics**: Bioinformatic tools for Protein, DNA, RNA, Carbohydrate, Lipid, Metabolite, Ligands and other macromolecular analyses; molecule visualization using PyMol, Chimera, SWISS-DOCK, SWISS-MODEL and Discovery Studio; *in silico* docking of macromolecules and different ligands using Autodock 4.2, Autodock vina and Molecular Operating Environment (MOE).

## POSTER PRESENTATIONS

1. “**Application of Polymer Chemistry in Medical Science**” (2019) International Seminar on the “**Modern Research Trends in Chemistry 2019**” organized collaboratively by **The Royal Society of Chemistry, Eastern India Section and St. Xavier’s College, Kolkata, India, during 22<sup>th</sup>-23<sup>rd</sup> February, 2019** (Won 3<sup>rd</sup> best poster award)
2. “**A comprehensive report exploring viroporins as targets for structure-based antiviral development with special emphasis on their electrophysiology and structure**

**determination” (2021) organized internationally on the celebration of **50 years of Protein Data Bank (PDB)** , during **01<sup>st</sup>-04<sup>th</sup> June, 2021**.**

#### **PROFESSIONAL MEMBERSHIPS**

1. Life Member, **Don Bosco Liluah**, Membership number: 201617073.
2. Graduate Student Member of the **R.K.M.V.C. College**, Rahara
3. Student Member, **ACBR**, North Campus, Delhi, India
4. Undergraduate Departmental Representative of Student’s Council at **IIT Kharagpur**.

#### **AWARDS/ PARTICIPATIONS IN EXTRA CURRICULAR ACTIVITIES**

1. Participated in ‘**OLYMPIADS ON SCIENCE, MATHEMATICS AND ENGLISH**’, organised by **Don Bosco Liluah (2009-2012)**.
2. Donated money for the betterment and education of poor children of South Asia via the **BOSCONET**, organised by **Don Bosco Liluah (2011)**.
3. Was an active member of the **NATURE CLUB**, organised by **Don Bosco Liluah (2013-2017)**.
4. Won 1<sup>st</sup> prize in Inter-School Competition on ‘**BE AN AUTHOR**’, organized by **Future Publications and Distributions (2016)**.
5. Won 2<sup>nd</sup> prize in Inter-School Competition on ‘**The Best in the Game Talent Hunt**’, organised by **Vidyaartha (2017)**.
6. Won 2<sup>nd</sup> round of Inter-College Competition on ‘**Sweden-India Nobel Memorial Quiz**’, organised by **Medical College, Kolkata (2017)**.
7. Won 1<sup>st</sup> prize State Level Speech Competition on ‘**Corruption Free India**’, organized by **United Bank of India, Kolkata** on the occasion of celebrating **World Environment Day (2018)**.
8. Won 3<sup>rd</sup> prize in Inter-College Level PowerPoint Presentation on ‘**Green Revolution**’, organized by **Amity University, Kolkata (2019)**.
9. Won 1<sup>st</sup> prize in the National Level Quiz Competition on ‘**COVID-19 Pandemic: Significance of Chemistry**’, organised by **Department of Chemistry, University of Kerala (2020)**.

#### **COMPUTER PROFICIENCY**

Handling of Biophysical and Bioinformatic programs in Windows and Linux Based Computing systems.

#### **FIELD OF INTEREST**

Bioinorganic and Organometallic Catalysts, Biochemistry, Structural Biology

#### **WORKSHOPS/ SEMINARS ATTENDED:**

- National seminar on Trends in surface science and related areas, 2017 at R.K.M.V.C. College, Rahara.
- National seminar on Sister Nivedita: facts and facets, 2018 at R.K.M.V.C. College, Rahara.

- Swami Vivekananda, sister Nivedita, Indian society and nationalism, 2018 at R.K.M.V.C. College, Rahara.
- International seminar on Chemistry and its relevance in Environmental Biology, 2018 at St. Xavier's College, Kolkata.
- International Workshop on Modern Research trends in Chemistry, 2019 at St. Xavier's College, Kolkata.
- International Seminar on Chemistry in Modern day Cancer Research, 2019 at St. Xavier's College, Kolkata.
- Webinar presentation on Representation in Quantum Mechanics, 2020 at Narasinha Dutt College, Howrah.
- International webinar on Capacity Building and Career Guidance, 2020 at R.K.M.V.C. College, Rahara.
- National seminar on Scintillating Chemistry, 2020 at R.K.M.V.C. College.
- International webinar Series on Droplet Digital PCR, 2021 at Asia Pacific BIO-RAD Laboratories and BIO-RAD Laboratories, USA.
- International webinar Series on Recombinant DNA Technology, 2021 at MERCK Innovation Laboratories, Bengaluru.

#### PERSONAL INFORMATION

Name : Srijon Sen  
 Father's Name : Sanjoy Kumar Sen  
 Mother's Name : Jayasree Sen  
 Date of Birth : 19/12/1999  
 Gender : Male  
 Category : General  
 Nationality : Indian  
 Marital Status : Unmarried

#### ADDRESS

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City : Belur	27/39,
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#### REFERENCES

1. Prof. Sanjay Kumar Dey  
 Associate Professor, Department of Biological Sciences;  
 Dr. B.R. Ambedkar Center for Biomedical Research, North Campus,

University of Delhi, Delhi-110007, India.

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2. Prof. Soumya De

Associate Professor, School of Bioscience;

Indian Institute of Technology, Kharagpur

Kharagpur-721302, India

Phone No.- +91 9547654379

E mail- [soumyade2015@gmail.com](mailto:soumyade2015@gmail.com)

3. Prof. Sayam Sen Gupta

Associate Professor, Department of Chemistry

IISER Kolkata

Campus Road, Mohanpur, West Bengal-741246, India

E mail- [sayam.sengupta@iiserkol.ac.in](mailto:sayam.sengupta@iiserkol.ac.in)

4. Dr. Sougata Sarkar

Assistant Professor, Department of Chemistry

Ramakrishna Mission Vivekananda Centenary College

Rahara, West Bengal-700118, India

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## **DECLARATION**

I hereby declare that the information furnished above is true to the best of my knowledge. I bear all responsibilities for the correctness and accuracy of the above-mentioned particulars.

Place: **West Bengal, India**

**Srijon Sen**  
**Signature**