

Saptarshi Sanyal

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Academic Background:

Qualification	Institute	Focus Area of Study	Score
Master of Pharmacy	Jadavpur University	Medicinal Chemistry (Computational chemistry and synthesis)	8.55 (Ranked 3 rd in M. Pharm)
Bachelor of Pharmacy	Jadavpur University	Pharmaceutical Technology	7.1
Higher Secondary	West Bengal Council for Higher Secondary Education (Birati High School)	Core sciences with Biology	90.60% (Best five including the English language); 91.75% (Physics, Chemistry, Mathematics and Biology) Ranked first in school
Secondary	West Bengal Board for Secondary Education (Baranagar Mission) RK	General subjects	86.13% (Overall); 91.25% (Basic sciences and English)

Research Experience and Interest:

I have worked in the Natural Science Laboratory Group of Prof. Tarun Jha for completion of the dissertation as a part of the course paper of Master of Pharmacy course. I got particularly interested in both structure and ligand-based drug design approaches as well as structural biology of a target protein with the deep involvement into the drug discovery research. I have actively participated in multiple fields of research circumnavigating various metalloproteinases involving QSAR and structure-based molecular modelling studies.

Work experience:

1. Worked as a Product Manager in Arogyam Medisoft solution, a health-care startup. Involved in the team for the development of low-cost health-care devices. [May 2016- July 2017]
2. Worked as a Medical Sales Executive in Roche Diabetes Care Pvt. Ltd. [July 2015- February 2016]
3. Instructed undergraduate students in analytical and synthetic Chemistry laboratory during Master of Pharmacy course.

Project and thesis:

1. Submitted M. Pharm term paper and presented on “Designing of anticancer matrix metalloproteinase 2 (MMP-2) inhibitors by the structure-based drug designing strategies.”
2. M. Pharm thesis: (to be submitted) “Designing of target-specific matrix metalloproteinase 2 inhibitors (MMP-2I): Implementation of predictive and classification based QSAR in anti-cancer drug designing.”

Publication:

Peer-reviewed articles:

Accepted

1. **Sanyal S**, Amin SA, Adhikari N and Jha T, *QSAR modelling on a series of arylsulphonamide-based hydroxamates as potent MMP-2 inhibitors*, SAR QSAR in Environmental Research (2019), Vol 3 (4) 247- 263. DOI: 10.1080/1062936X.2019.1588159 (IF 2.227)

Communicated

1. **Sanyal S**, Amin SA, Adhikari N and Jha T, *Ligand-based design of anticancer matrix metalloproteinase 2 (MMP-2) inhibitors: A review*. (Communicated to Future Medicinal Chemistry, IF 4.1)

Manuscript under Preparation:

1. **Sanyal S**, Amin SA, Jha T, *The structure of the protein MMP-2 from the perspective of a drug designing chemist.*
2. Banerjee S, Amin SA, Baidya SK, **Sanyal S**, Jha T, *Desiging of some Urido-based Aminopeptidase N inhibitor using multi QSAR method.*

Seminars and workshop attended:

1. Attended Indo-Australian seminar and workshop on Drug Discovery, 2019; Organized by IICB, Kolkata.
2. Attended a one-day workshop on GLP regulation, 2017; jointly organized by TAAB bioservices and Bioequivalence Study Centre, Jadavpur University.

Computer Skills:

- **Discovery Studio:** (Ver 3.0) Implementation of multiple modules including Ligand preparation, Bayesian Modeling, Pharmacophore Generation, Large molecule preparation and visualization, Docking with CDocker and GOLD.
- **Sybyl X** (Ver 2.0): Generation of three dimensional of CoMFA and CoMSIA model.
- **GOLD** suite: Docking of molecules.
- Visualization tools: Macromolecule visualization using **PyMol**, **Chimera**
- Descriptor calculation tools: Calculation of molecular properties with **Dragon**, **PaDEL**
- Chemical structure modification and file-format manipulation tools: **ChemDraw**, **ChemSketch**, **Avogadro**, **OpenBabel**
- Statistical tools: **Statistica**
- Anaconda: Basic data handling with **Python**
- Android Programming: Basic interface designing and programming of **Android Studio**
- **Microsoft Windows and Microsoft office environment.**

Other Skills and co-curricular activities:

- Orator and public health awareness creator for Radio JU 90.8 Mhz. Superior interpersonal and communication skills. Regularly engaged in stage and audio play in various cultural platforms.
- Professional Proficiency in 3 languages (English, Bengali and Hindi).
- Especially keen in organizing administrative, professional, educational and cultural events.
- I enjoy indulging myself into photography, culinary art, classic movies and fictions as leisure. I am also particularly interested in local heritage and cultural sociology.

Communication Details:

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