

CURRICULUM VITAE



NAME: RIMA SAHA

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DATE OF BIRTH: September 10, 1993

NATIONALITY: Indian

AREA OF RESEARCH INTEREST

- Organic chemistry
- Bioorganic chemistry
- Polymer chemistry
- Medicinal chemistry
- Supramolecular chemistry

RESEARCH EXPERIENCE

- Summer Internship (SRFP-2015) from Jawaharlal Nehru Centre For Advanced Scientific Research (JNCASR), Bangalore, under the supervision of Prof. Subi J. George (Supramolecular Chemistry Unit).
- Worked as Ph.D. research fellow at Department of Polymer Science and Technology, Rajabazar Science College, Kolkata. Research topic is “Amino acid based Raft polymers and its biomedical application”.

SUMMARY OF SKILLS

- Experienced in spectroscopic techniques (1-H and C-13 NMR, Mass spectrometry, IR, UV-VIS, Fluorescence Spectroscopy)
- Used software such as Origin, ChemDraw Ultra, MestreNova
- Chromatographic Techniques: Column chromatography, TLC, Paper chromatography.
- Personal experience in instrumental techniques: Spectrofluorometer, TGA, DSC, CD, UV/VIS spectrophotometer, gel doc, confocal microscope.
- Have working knowledge of computer.
- Language skills: English, Bengali, Hindi.

EDUCATIONAL QUALIFICATION

NAME OF EXAMINATION/DEGREE	SCHOOL/ COLLEGE/ UNIVERSITY/OTHER EXAMINING BODY	YEAR	SUBJECTS TAKEN	% of MARKS	DIVISION S/ CLASS
M. Sc.	Presidency University	2016	CHEMISTRY (Specialization in Organic Chemistry)	78.3	1 st
B.Sc. (HONS.)	Barrackpore Rastraguru Surendranath College WBSU	2014	CHEMISTRY (HONS.), PHYSICS & MATHEMATICS (GEN.)	70.5	1 st
HIGER SECONDARY	Rahara Bhabanath Institution For Girls W.B.C.H.S.E.	2011	BNG, ENG, CHEM., MATH., PHYS., BIO	79.1	1 st
SECONDARY	Rahara Bhabanath Institution For Girls W.B.B.S.E.	2009	Beng., Eng., Math., Life Sc., Phy. Sc., Hist., Geo.	85.0	1 st

ACADEMIC AWARDS

- Qualified GATE (Graduate Aptitude Test in Engineering) in 2017, a National Examination in India.
- Qualified NET (National Eligibility Test) in 2017, a national Examination in India.
- Women Scientist-C (2021-2022) under DST, Govt. of India.

ACADEMIC CONTRIBUTIONS

1. Oral presentation in International Conference on Nanotechnology: Ideas, Innovations & Initiatives; ICN:3I-2017, at IIT Roorkee on December 6-8, 2017.
2. Poster presentation in International Conference on BioMaterials, BioEngineering and BioTheranostic (BIOMET); held at Vellore Institute of Technology (VIT) on July 24-28, 2018.
3. Poster presentation in Symposium on polymer Science (SPS-2019); at IISER Kolkata, West Bengal, on July 5-6, 2019.
4. Oral presentation in International Conference on Biomaterial-Based Therapeutic Engineering and Regenerative Medicine (BIOTERM), at IIT Kanpur, India on November 28-December 1, 2019.

PUBLICATIONS

Research article

1. **Saha R**, Bhayye S, Ghosh S, A Saha, Sarkar K "Supramolecular assembly of amino acid based cationic polymer for efficient gene transfection efficiency in triple negative breast cancer" *ACS Appl. Bio Mater.* 2019, 2, 12, 5349–5365.
2. Sarkar P, Ghosh S, **Saha R**, Sarkar K. "RAFT polymerization mediated core–shell supramolecular assembly of PEGMA-co-stearic acid block co-polymer for efficient anticancer drug delivery" *RSC Advance*, 11 (2021) 16913-16923.
3. Bej S., Das R., Mondal A., **Saha R.**, Sarkar K., Banerjee P "Knoevenagel condensation triggered synthesis of dual-channel oxene based chemosensor: Discriminative spectrophotometric recognition of F⁻, CN⁻ and HSO₄⁻ with breast cancer cell imaging, real sample analysis and molecular keypad lock applications" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 273 (2022) 120989.
4. Chakraborty D., Musibb D.¹, **Saha R.**¹, Das A., Razaee M. K, Ramue V., Chongdara S., Sarkar K., Bhaumik. "Highly stable tetradentate phosphonate-based green fluorescent Cu-MOF for anticancer therapy and antibacterial activity". 24 (2022) 100882.

Book chapter

1. Ghosal K., Sarkar P., **Saha R.**, Ghosh S., Sarkar K. “Advances in Tissue Engineering and Regeneration”. In: Li B., Moriarty T., Webster T., Xing M. (eds) *Racing for the Surface*. Springer, Cham. 2020, 577-646.
2. R. Patra, K. Ghosal, **R. Saha**, P. Sarkar, S. Chattopadhyay, K. Sarkar, *Advances in the Development of Biodegradable Polymeric Materials for Biomedical Applications*, Reference Module in Materials Science and Materials Engineering, Elsevier 2022.

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge.

Rima Saha.

Date: 04/04/2022
Place: Kolkata, India.

Rima Saha.