



Sanu Saha

Research Associate

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Nationality: Indian

Date of Birth: 31/10/1993

Marital status: Unmarried

Academic Record

2017 – Present

SRF, Indian Association for the Cultivation of Science, Jadavpur, West Bengal, India.

Thesis Submitted

Thesis Title: Total Synthesis of Bioactive Natural Product Alveolaride C; Beauveamide A; and Studies Toward the Total Synthesis of Trienomycin J

Supervisor: **Prof. Rajib Kumar Goswami**

Degree	University/ Board	Year	Marks (%)	Division
Master of Science	Jadavpur University, India	2015-2017	75	First
Bachelor of Science	University of Calcutta	2012-2015	69.5	First
Higher Secondary Education (12 th)	West Bengal Council of Higher Secondary Education	2012	76.4	First
Secondary Education (10 th)	West Bengal Board of Secondary Education	2010	80.2	First

Current Position

Position	Organization	From	To
Research Associate	School of Chemical Sciences, IACS	August 2023	Present

Awards and Fellowships

July 2019	Senior Research Fellow, University Grants Commission (UGC), India
2017	Qualified GATE (Graduate Aptitude Test in Chemical Sciences, India)
2016	Qualified CSIR-UGC NET (National Eligibility Test, India)

Publications

1. Saha, S.; Paul, D.; Goswami, R. K. Cyclodepsipeptide Alveolaride C: Total Synthesis and Structural Assignment. *Chem. Sci.* **2020**, *11* (41), 11259–11265. <https://doi.org/10.1039/D0SC04478D>.
2. Saha, S.; Auddy, S. S.; Chatterjee, A.; Sen, P.; Goswami, R. K. Late-Stage Functionalization: Total Synthesis of Beauveamide A and Its Congeners and Their Anticancer Activities. *Org. Lett.* **2022**, *24* (39), 7113–7117. <https://doi.org/10.1021/acs.orglett.2c02699>.
3. Paul, D.; Saha, S.; Goswami, R. K. Total Synthesis of Pestalotioprolide E and Structural Revision of Pestalotioprolide F. *Org. Lett.* **2018**, *20* (15), 4606–4609. <https://doi.org/10.1021/acs.orglett.8b01894>.
4. Auddy, S. S.; Saha, S.; Goswami, R. K. Total Synthesis and Stereochemical Assignment of Bipolamide A Acetate. *Org. Biomol. Chem.* **2022**, *20* (16), 3348–3358. <https://doi.org/10.1039/D2OB00230B>.
5. Paul, D.; Das, S.; Saha, S.; Sharma, H.; Goswami, R. K. Intramolecular Heck Reaction in Total Synthesis of Natural Products: An Update. *European Journal of Organic Chemistry* **2021**, *2021* (14), 2057–2076. <https://doi.org/10.1002/ejoc.202100071>.

6. Paul, D.; Kundu, A.; Saha, S.; Goswami, R. K. Total Synthesis: The Structural Confirmation of Natural Products. *Chem. Commun.* **2021**, 57 (27), 3307–3322. <https://doi.org/10.1039/D1CC00241D>.

Conferences/Symposia/Webinars attended & Poster presentations

1. JNOST Conference (JNOST-16) For Research Scholars organized by the Indian Institute of Science, Bangalore, India during October 31 – Nov. 1, 2020, and contributed a presentation entitled “Alvelaride C: Total Synthesis and Finding of its Structural Mystery”
2. Contemporary Ideas, Innovations & Initiatives in Chemical Sciences: -2023 (CI3CS-2023) organized by the Presidency University, Kolkata, India during August 23 – 24, 2023, and contributed a presentation entitled “Late-Stage Functionalization: Total Synthesis of Beauveamide A and Its Congeners and Their Anticancer Activities”

Professional Competence

I have experiences in handling instruments and techniques that are used to determine the structure of complex organic compounds.

Synthesis of organic molecules and their characterization via Infrared, ^1H and ^{13}C NMR, mass spectroscopic techniques (ESI and GC-MS).

Extensively performed separation and purification of organic compounds by preparative TLC, Column chromatography (various type), fractional distillation etc.

Gained experience in handling various instruments like GC, HPLC, NMR, HRMS, IR and Polarimeter.

Synthesis being one of the major aspects of our research, I have experience in handling light and moisture sensitive compounds and performing reactions under inert atmosphere and their proper purification and performing large scale to microscale reactions. I am familiar with multistep organic transformation with a goal to develop new synthetic route for synthesis of complex natural products and address the unknown stereocenters. I have made use of usual spectroscopic and chemical techniques for the characterization of new stereocenters as well as synthesized compounds.

1D & 2D NMR spectroscopy is the powerful tool for compound characterization and being a synthetic organic chemist, I have the expertise in handling Bruker FT NMR spectrometer. Regularly I have to handle the instrument for the characterization of the compounds prepared by myself.