

## Dr. Abhisek Saha

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### Member of Learned Societies:

**Life Member of Chemical Research Society of India; Indian Crystallographic Association; Indian Science Congress Association; Indian Association of Chemistry Teachers; Indian Academic Researchers Association; Indian Red Cross Society. Member of International Association of Hydrological Sciences; International Association of Advanced Materials, Sweden; Royal Society of Chemistry (RSC); American Fisheries Society; Associate member of International Society for Development and Sustainability, Japan; International Younger Chemist Network; International Society of Zoological Sciences; World Wildlife Fund; International UN Volunteer.**

Dr. Abhisek Saha is an Associate Professor in the Department of Chemistry, at Tufanganj College, Cooch Behar, India. The career of Dr. Abhisek Saha spans over twenty-five years of academic, Research, and administrative responsibilities at various colleges, school, and universities.

Dr. Saha graduated from the University of North Bengal, India, and obtained a Master's degree in Chemistry from the same university. He completed his Ph.D. at the Department of Chemistry, Cooch Behar Panchanan Barma University, WB, India-736101. He qualified for the prestigious GATE (Graduate Aptitude Test for Engineers) examination in 2001 and CSIR-UGC-NET on Chemical Science in 2002.

Dr. Saha started his professional career as a guest faculty in the Department of Chemistry, Mathabhanga College, WB-736146 in the year 2000. Dr. Saha also worked as an assistant teacher in Chemistry at Margaret (S.N) English School, Darjeeling, WB, India-734003. Then he joined as a lecturer in Chemistry at Tufanganj College, Cooch Behar, India. Currently, he is employed as an Associate Professor and HOD in the Department of Chemistry, at Tufanganj College, Cooch Behar, WB, India-736160. He had discharged the duty of various academic and administrative committee member of the Tufanganj College from 2008. He acted as the UG-BOS member of Chemistry in Cooch Behar Panchanan Barma University, WB, India-736101 from 2023 to till date.

Dr. Saha acted as a SPOC in SWAYEM-NPTEL, India since 2019 and faculty organizer of Spoken Tutorial, IIT Bombay, India. He acts as an Academic counselor (UG level) at Netaji Subhas Open University, India from 2015 to till date.

Dr. Saha's research interests are focused primarily on single crystal X-ray Diffraction, Synthesis, characterization and reactivity of transition metal Complexes. He is experienced in the multi-step synthesis of organic compounds as well as organometallic compounds and their separation/purification by chromatographic techniques. Possess knowledge for interpreting data from IR, NMR, UV-vis and FAB-mass spectra. Well-versed in solving structures using single crystal X-ray diffraction and possess knowledge of various softwares related to crystal structure solutions and representations (SHELXS, SHELXTL-PLUS, DIAMOND etc.). IR and UV-vis spectrophotometers, electro chemistry system (PAR-Varsastat™ II cyclic voltametry and coulometry), HPLC, GC. He worked as a Principal Investigator in the UGC-sponsored project (UGC sponsored project (PSW-132/09-10(ERO) dated 08/10/2019; Serial number-95940) on 'Application of platinum group metal complex to achieve C-H activation' in 2010-2012. The research work was the regioselective or regiospecific C(aryl)-H bond activation using cyclometallation reaction. Palladium(II), Platinum(II), Ruthenium(II), Rhodium(I) and Iridium(I) were used for C(aryl)-H bond activation. The cyclometallates were isolated and characterized. Single crystal X-ray crystallography has been used extensively for structure elucidation of the cyclometallates. The reactivity of the cyclometallates was also studied.

Dr. Saha changed his research focus to Bioinformatics and Computational Biology, Next Generation Sequencing, DNA Sequence Analysis, Genome Sequencing, Comparative Genomics, DNA Analysis, DNA Sequence Alignment, and Sanger Sequencing. National Center for Biotechnology Information (NCBI), USA, GenBank® nucleic acid sequence database assigned accession numbers from MN810961 to MN810965, MN994439 to MN994442 on his work on *Barilius bendelisis*. The Barcode of Life Data System (<https://v3.boldsystems.org/>) also assigned Barcode ID number BOLD: AAF3096 on his work on DNA barcoding of *Barilius bendelisis*; Barcode ID number BOLD: ACE8967 on his work on DNA barcoding of *Tor putitora* and Barcode ID number BOLD: ADW4596 on his work on DNA barcoding of *Barilius shacra*.

Dr. Saha published research papers (Twenty-five) in reputed National and International journals, edited chapter in books (seven) published by National and International (Wiley-Scrivener, Springer Publication) publishers.

Dr. Saha presented his research papers in many National and International seminars, conferences and symposia in India and abroad. He also acted as Chairman, Co-Chairman, Rapporteur in technical sessions of many National and International seminar held in India and abroad.

Dr. Saha also renders his service as an editorial panel of National and International Journals. He is an associate editor of 'International Journal of Bio-Pharma Research journal' (ISSN: 2234-8638) and 'Anals of Pharma Research journal' (ISSN: 2347-1956). He acts an executive editor of 'International Journal of Current Science Research and Review' (ISSN: 2581-8341) and an editor of 'Asian Journal of Research in Chemistry (ISSN: 0974-4150; Online, ISSN: 0974-4169;Print). Dr. Saha is also a member of reviewer panel of 'International Journal of Chemical and Life Sciences' (ISSN: 2287-6898). He also acts as an editorial board member of 'International Journal of Pharmacognosy and Chemistry (Online ISSN:2582-7723) and 'Agricultural and Biological Research' (ISSN:0970-1907).

Dr. Saha published three patents from India and UK. The patents are Design patent (Design number- 6319356) from Intellectual Property Office, UK on Gas Chromatography-Mass Spectrometer Analyzer on 1<sup>st</sup> November, 2023, Patent on 'Synthesis, Characterization and Evaluation of Anti-cancer Activity of Pyrazoline derivative' (Application ID 202311042616) by Intellectual Property India.

Dr. Saha was awarded National Scholarship of HRD, Govt. of India for his ranking in Higher Secondary Examinations conducted by the West Bengal Council of Higher Secondary Education. DPI, Govt. of West Bengal awarded him with Scholarship in 1997 for his performance at UG level.

The Air India, Govt. of India has awarded him the prestigious BOLT Award for his teaching efficiency in 2007. Dr. Saha was awarded the 'Excellent Teacher Award' on his overall contribution to the field of Chemistry at the International Conference on Sustainable Development Initiatives in South East Asia held in Nepal in 2022.

