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UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.



Department of Chemistry

Print



## Dr. Md Firoj Hossain

B.Sc, M.Sc., Ph.D.

Assistant Professor

**Editorial Board Member:** Life member of Indian Chemical Society, (Membership No. LM F/8092) Kolkata, India, Life member (Membership No. LM 2270) of Chemical Research Society of India (CRSI), India.

### About:

Dr. Hossain was born and raised in Dwipchandrapur, Murshidabad (W. B). He received his BSc (Hons.) in Chemistry from Krishnath College, Berhampore in 2004 and MSc in 2006 from Kalyani University. His PhD research was conducted at the Indian Association for the Cultivation of Science (IACS, Kolkata, India) and was focused on the synthesis of natural products with Prof. Subrata Ghosh. After successfully defending his PhD thesis, in the year 2012, he moved to South Africa to work with Prof. Charles de Koning & Prof. Patrick Arbuthnot at the University of Witwatersrand. In 2015 he returned to India to join as Assistant Professor in the Department of Chemistry, Sripat Singh College, Jiaganj, Murshidabad. Then Dr. Hossain moved to University of North Bengal to join in the Department of Chemistry as Assistant Professor in the month of June 2018.

### Contact Addresses:

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**Subject Specialization:** Organic Chemistry

### Areas of Research Interest:

- Methodology Development and Asymmetric Synthesis of Bioactive Natural Products (NPs)
- Supramolecular Chemistry
- Click Chemistry
- Bio-Catalysis

**No. of Phd Students:** (a) Supervised: Nil (b) Ongoing: Nil

**No. of M.Phil. students:** (a) Supervised: Nil (b) Ongoing: Nil

**No. of Publications:** (a) Scientific Papers: 05

### Achievement & Awards:

- **National Eligibility Test** (National Eligibility Test-December' 2006, Scored in Top 20%), CSIR, New Delhi, India.
- **Graduate Aptitude Test:** GATE-2007
- **Junior Research Fellowship** (CSIR): August, 2007.
- **Senior Research Fellowship** (CSIR): August, 2010.
- **Senior Research Fellowship** (IACS): September, 2012.
- **Extended Senior Research Fellowship** (CSIR): December, 2012.
- **Research Associate I** (IACS): December 2012.

### Research Experiences:

- NRF & URC Post Doctoral Research Fellow: March 2013 – February 2015, School of Chemistry, University of the Witwatersrand, South Africa (Research Advisor: Professor Charles B De Koning & Prof. Patrick Arbuthnot).

**Positions:**

- Assistant Professor in Chemistry, North Bengal University, Darjeeling (From 07<sup>th</sup> June 2018 till date)
- Assistant Professor in Chemistry, Sripat Singh College, Jiaganj, Murshidabad (From 25<sup>th</sup> March 2015 to 06<sup>th</sup> June 2018)

**Administrative Experiences:**

- Nil

**List of Selected Publications:**

- "A new approach to A/B ring analogue of eleutherobin and sarcodictyins through a sequence of highly diastereofaceselective Diels-Alder reaction and ring opening-ring closing metathesis (RO-RCM)", Chanchal K. Malik, **Md. Firoj Hossain** and Subrata Ghosh. *Tetrahedron Lett.* **2009**, 50, 3063-3066.
- "Effect of ring fusion stereochemistry on double bond geometry. Unexpected formation of nine-membered cyclic ether with E-configured double bond through RCM", Subrata Ghosh, **Md. Firoj Hossain**, Chanchal K. Malik, Soumitra Maity. *Tetrahedron* **2010**, 66, 9159-9164.
- "Synthetic studies towards nortriterpenoids of Schisandraceae family. Approach to the Construction of functionalized C/D and A/B ring units of Micrandilactone C and Rubrifloradilactone B." **Md. Firoj Hossain**, Kiran Matcha and Subrata Ghosh. *Tetrahedron Lett.* **2011**, 52, 6473-6476.
- "Stereocontrolled approach to the highly functionalized bicyclo[3.2.0]heptane core of bielschowskysin through intramolecular Cu(I)-catalyzed [2+2] photocycloaddition", Anupam Jana, Sujit Mondal, **Md. Firoj Hossain** and Subrata Ghosh *Tetrahedron Lett.* **2012**, 53, 6830-6833.
- "Intramolecular Diels-Alder route to angularly oxygenated hydrindanes. Synthesis of the functionalized bicyclic skeleton present in galiellalactone", **Md. Firoj Hossain**, Ram Naresh Yadav, Sujit Mondal, Anupam Jana, and Subrata Ghosh (*Tetrahedron* **2013**, 69, 7956-7963).

**Paper Presented in Symposia/ Conferences:**

- Presented a paper in the International seminar on "Frontiers in Chemistry 2018" on August 27, 2018 at University of North Bengal organized by Department of Chemistry, University of North Bengal and CRSI North Bengal Local chapter.
- Presented a paper in the International Conference on Environmentalism, Globalism and Morality on January 10-12, **2018** at Alipurduar College organized by The Institute of Cross-Cultural Studies and Academic Exchange, Elon, NC, USA.
- Presented paper on "Chemistry Colors the World" at "International conference on Sustainable Development" on 25<sup>th</sup> August **2017** at Galle Face Hotel, Colombo, Sri Lanka, organized by Global Academic Research Institute (GARI), Colombo, Sri Lanka.
- Presented paper in "International symposium on facets of chemistry in biology (FOCB-II)"- January 12, **2017**, organized by the department of chemistry, St. Xavier's college (Autonomous), Kolkata.
- Presented a paper in One Day seminar on "Role of IQAC in Fostering Environmental Conciousness" on September 09, 2015 organized by Krishnath College, Berhampore.
- Presented paper in "SACI-ACS Bi-national Organic Chemistry Conference 2014", 30th Nov-4th Dec, 2014, Stellenbosch University, South Africa.
- Presented paper in "15th CRSI National Symposium in Chemistry", February 1-3, **2013**, Banaras Hindu University, Varanasi, India
- Presented paper in "7th Junior National Organic Symposium Trust (J-NOST) Conference for research Scholars", December 15-18, **2011**, Indian Institute of Science Education and Research (IISER) Mohali. Punjab140306, India.

**Participation in Conferences/Seminar:**

- Attended the full agenda of ACS on Campus events at Indian Association for the Cultivation of Science on Oct 12, **2012** and at University of Witwatersrand, July **2013**.
- Participated in the **International Symposium on Chemistry and Complexity** held at Indian Association for the Cultivation of Science, Kolkata during December 6-8, **2011**
- Participated in the **National Symposium on Organic Chemistry-IV (NSOC-IV)** held on 2<sup>nd</sup> and 3<sup>rd</sup> February, **2011** organized by the Department of Chemistry, Jadavpur University, Kolkata-700032.
- Participated in the **International Symposium (ISOC09) on "Organic Chemistry: Trends in 21<sup>st</sup> Century"** organized by the department of Organic Chemistry, Indian Association for the Cultivation of Science during December 10-12, **2009**.
- Participated in the **National Symposium on Advances in Chemistry (NSAC-2008)** held on 5<sup>th</sup> November, **2008** at the Department of Chemistry, Jadavpur University, Kolkata-700 032.

**Workshop Attended:**

- Participated in the Inter-college One Day Workshop on E-Learning & E-Governance for Quality Advancement on August 19, **2015** organized by IQAC, Sripat Singh College, Jiaganj, Murshidabad.
- Participated in UGC Sponsored one day national seminar on "Sufism and Indian Culture" on December 11, **2015** organized by department of History, Sripat Singh College, Jiaganj, Murshidabad.
- Participated in UGC Sponsored one day national seminar on "Recent advances in plant sciences for the welfare of our people" on November 30, 2016 organized by department of Botany, Sripat Singh College, Jiaganj, Murshidabad.

- Participated in Science Academies' Lecture Workshop on "Chemical sciences: Recent trends in teaching, research and technology" on May 25-26, **2018** organized by Department of Chemistry, CBPBU, Cooch Behar sponsored by IAS, Bengaluru; INSA, New Delhi and NAS, Allahabad.
- Participated in Lecture Workshop on "Recent Development in Chemistry-2018" on September 7-8, **2018** organized by Department of Chemistry, CBPBU, Cooch Behar in collaboration with Indian Chemical Society.

**Conferences/Seminar/Workshop Organized:**

- Acted as Joint Programme Coordinator of the DST, GOWB, Sponsored two- day "Science awareness camp" in September 6-7, **2016** at Sripat Singh College, Jiaganj, Murshidabad.
- Acted as Convener of the "UGC Sponsored One Day National Seminar on Recent Advances in Chemistry" organized by Department of Chemistry, Sripat Singh College, Jiaganj, Murshidabad on 21<sup>st</sup> Dec **2015**.

**Participated in Professional Courses:**

- Participated in the Refresher Course in "Tea Sciences" from 14<sup>th</sup> November to 4<sup>th</sup> December **2018** at North Bengal University.
- Participated in the 29<sup>th</sup> NBU Orientation Programme from 21<sup>st</sup> February to 20<sup>th</sup> March **2017** at North Bengal University.
- Participated in Orientation Programme on ODL in Special reference to role of academic counsellor on March 20, **2016** conducted by the regional centre IGNOU, Raghunathganj, Murshidabad.
- Participated in "Short term course on computer applications" from Feb 15<sup>th</sup> to 21<sup>st</sup> **2016** at Aligarh Muslim University Centre, Murshidabad (West Bengal).