

Affiliation:
Centre of Biomedical Research (CBMR)
Lucknow, U. P. India

E-mail:
srijit.biswas@cbmr.res.in

Phone:
+91-9044370898



CENTRE OF BIOMEDICAL RESEARCH

(Formerly Centre of Biomedical Magnetic Resonance)
An Autonomous Centre of Govt. of U.P.

Dr. Srijit Biswas
DST Inspire Faculty, CBMR

Sanjay Gandhi Postgraduate Institute of Medical Sciences Campus,
Raebareli Road, Lucknow – 226014, U.P. (INDIA)
E-mail: srijit.biswas@cbmr.res.in
: srijit_biswas@yahoo.co.in
Tel: +91-9044370898 (M)

About Srijit Biswas:

Srijit was born in Chandidas Nanoor of Birbhum district of West Bengal, Indian in 1982. After finishing his schooling he moved to Bolpur Santiniketan with his parents and obtained his Bachelor of Science (BSc) in Chemistry from Bolpur College (The University of Burdwan) in 2003 and Master of Science (MSc) in Organic Chemistry from Visva-Bharati (A Central University) in 2005. He then moved to Jadavpur University, Kolkata, India to join as a PhD student in Prof. Umasish Jana's group in February, 2006. By this time, Srijit spent three months in Chemgen Pharma International Pvt. Ltd. (CRO) as a trainee chemist. Srijit was awarded PhD in April, 2011 and before that he moved to Sweden and joined Prof. Joseph Samec's group of Uppsala University, Sweden, as a post doctoral researcher supported by the Wenner Gren Foundation, Stockholm in January 2011. After three and half years' post doc stay at Uppsala University, he returned back to India in June 2014 and joined Centre of Biomedical Research, Lucknow; where he has been working as a DST Inspire faculty since July, 2014.

Academic Appointments:

- July, 2014 – present: DST-INSPIRE Faculty, CBMR, Lucknow, India
- January 2013 – June 2014: Senior Post-doctoral Scientist, Dept. of Chemistry, Uppsala University, Sweden; (**Advisor – Prof. Joseph S. M. Samec**)
- January 2011 – December 2012: Wenner Gren Post-doctoral Researcher, Dept. of Chemistry, Uppsala University, Sweden; (**Advisor – Prof. Joseph S. M. Samec**)

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Educational details:

- Ph.D. (Organic Chemistry, 2011): Dept. of Chemistry, Jadavpur University, Kolkata, West Bengal, India; (**Advisor – Prof. Umasish Jana**)
- M.Sc. (Organic Chemistry, 2005): Dept. of Chemistry, Visva-Bharati, Santiniketan, West Bengal, India
- B.Sc. (Chemistry, 2003): Bolpur College (The University of Burdwan), West Bengal, India.

Achievements and Awards:

- International Travel Support (ITS) from SERB, Govt. of India to deliver invited lecture in the “International Conference on Stereochemistry – 2016” held in Sao Paulo, Brazil on 18–19 August, 2016: 2016;
- DST-INSPIRE Faculty Award (with research grant amount of INR 3500000) from the Department of Science and Technology, Govt. of India: 2014;
- Wenner Gren Post Doctoral Scholarship and Research Grants (amount of SEK 686999) from the Wenner Gren Foundation, Stockholm, Sweden for Post-doc research: 2011;
- Tetradedron Letters Most Citad Article Award for the period of 2006–2009: Elsevier, The Netherlands;
- CSIR/UGC NET JRF: 2005;
- GATE: 2005.

Research Grant Available:

DST-INSPIRE Faculty Scheme (Rs. 35 Lakh since July, 2014)

PI: Dr. Srijit Biswas

Position Available:

PhD positions for JRF-NET qualified candidates with organic chemistry background are available. Submit CV and a cover letter to the PI (srijit.biswas@cbmr.res.in, srijit_biswas@yahoo.co.in).

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Research Interests:

- Catalytic C-O bond activation of phenols and simple phenol derivatives;
- Library synthesis of structurally diverse small organic molecules for early drug discovery;
- Bifunctional and asymmetric catalysis involving TM and BA towards potential biologically active molecules and their mechanistic investigations;
- Green chemistry;
- Site selective C-H activations.

Research Group:

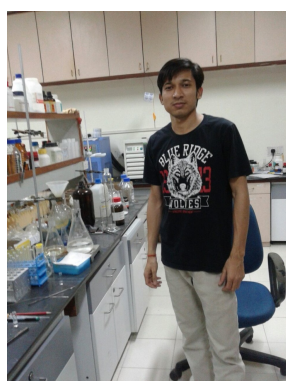


Srijit Biswas, Ph.D.

Principal Investigator

Emails: srijit.biswas@cbmr.res.in; srijit_biswas@yahoo.co.in

Phone: +91 9044 370 898 (Mobile)



Mr. Abhishek Mishra, M.Sc.

Ph.D. Student

Email: abhishek.mishra@cbmr.res.in; abhishekmishra93116@gmail.com

Phone: +91 7080 585 200 (Mobile)

Conference Participations:

1. **“International Conference on Stereochemistry – 2016”** organized by Editors of Medicinal Chemistry and Drug Designing and Conference Series LLC, Sao Paulo, **Brazil** during August, 2016 (Invited Lecture);
2. **“Recent Trends in Chemistry with Reference to Teaching and Research”** organized by Visva-Bharati University, West Bengal, **India** during March, 2015;
3. **“Organikerdagarna XXIV”** organized by Stockholm University, **Sweden** during June, 2014 (Oral Presentation);
4. **“Uppsala University Section of Chemistry Conference (UUSCC-2013)”** organized by Dept. of Chemistry – BMC and Dept. of Chemistry – Ångström, **Sweden** during March, 2013;
5. **Organikerdagarna XXIII”** organized by Gothenburg University, **Sweden** during June, 2012 (Oral Presentation);
6. **“International Symposium (ISOS 09) on Organic Chemistry: Trends in 21 Century”** organized by the Dept. of Organic Chemistry, Indian Association for the Cultivation of Science, Kolkata, **India** during December, 2009;
7. **“Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry Today (2008)”** organized by the Indian Chemical Society held at Kolkata, **India** during August, 2008;
8. **“National Symposium on Advances in Chemistry”** held on November, 2008 at the Dept. of Chemistry, Jadavpur University, Kolkata;
9. **“Fifth Chemical Research Society of India (Kolkata Chapter) Symposium”** held on August, 2007 at the Dept. of Chemistry, Jadavpur University, Kolkata.

Complete List of Publications:

As Corresponding Author:

1. “Metal and solvent-free nucleophilic *ipso*-substitution of aryl methyl ethers through aryl C–OMe bond cleavage; a direct access to functionalized bithiophenes with methanol as the only by-product.” Abhishek Kumar Mishra, Ajay Verma, and **Srijit Biswas**,* *Manuscript Submitted (Under Peer Review)*;
2. “Brønsted Acid Catalyzed Functionalization of Aromatic Alcohols through Nucleophilic Substitution of Hydroxyl Group.” Abhishek Kumar Mishra and **Srijit Biswas**,* *J. Org. Chem.* **2016**, *81*, 2355–2363 (*Has been in Top 20 Most Read / Downloaded Articles in February and March, 2016*);
3. “Brønsted Acid-Catalyzed Intramolecular Nucleophilic Substitution of the Hydroxy Group in Stereogenic Alcohols with Chirality Transfer.” Anon Bunrit, Christian Dahlstrand, Sandra K. Olsson, Pemikar Srifa, Genping Huang, Andreas Orthaber, Per Sjöberg, **Srijit Biswas**,* Fahmi Himo,* and Joseph S. M. Samec,* *J. Am. Chem. Soc.* **2015**, *137*, 4646–4649;
4. “An Efficient and Convenient Route to Enantioenriched 1,4-Sulfanylalcohols.” Sandra K. Olsson, **Srijit Biswas**,* and Joseph S. M. Samec,* *Int. Res. J. Nat. Appl. Sci.* **2015**, *2*, 91–97;

Other Publications:

5. “One-Pot Synthesis of Keto Thioethers by Palladium/Gold-Catalyzed Click and Pinacol Reaction.” Alban Cadu, Rahul A. Watile, **Srijit Biswas**, Andreas Orthaber, Per J. R. Sjöberg, Joseph S. M. Samec,* *Org. Lett.* **2014**, *16*, 5556–5559;
6. “Tandem Pd/Au Catalyzed Route to α -Sulfenylated Carbonyl Compounds from Terminal Propargylic Alcohols and Thiols.” **Srijit Biswas**, Rahul A. Watile, Joseph S. M. Samec,* *Chem. Eur. J.* **2014**, *20*, 2159–2163;
7. “Gold-Catalyzed Route to α -Sulfenylated Carbonyl Compounds from Propargylic alcohols and Thiophenol: Scope, Limitations, and Mechanism.” **Srijit Biswas**, Joseph S. M. Samec, Abstracts of Papers, *245th ACS National Meeting & Exposition, New Orleans, LA, United States*, April 7-11, **2013**, ORGN-382;
8. “Atom Efficient Gold(I) Chloride-Catalyzed Synthesis of α -Sulfenylated Carbonyl Compounds from Propargylic Alcohols and Aryl Thiols: Substrate Scope and

- Combined Experimental and Computational Mechanistic Investigation.” **Srijit Biswas**, Christian Dahlstrand, Rahul A. Watile, Marcin Kalek, Fahmi Himo*, Joseph S. M. Samec,* *Chem. Eur. J.* **2013**, *19*, 17939–17950;
9. “An Aqueous and Recyclable Copper(I)-Catalyzed Route to α -Sulfenylated Carbonyl Compounds from Propargylic Alcohols and Aryl Thiols.” Rahul A. Watile, **Srijit Biswas**, Joseph S. M. Samec,* *Green Chemistry* **2013**, *15*, 3176–3179;
 10. “The Efficiency of the Metal Catalysts in the Nucleophilic Substitution of Alcohols is Dependent on the Nucleophile and Not on the Electrophile.” **Srijit Biswas**, Joseph S. M. Samec,* *Chem. Asian J.* **2013**, *8*, 974–981;
 11. “Three-Component Coupling Synthesis of Diversely Substituted N-Aryl Pyrroles Catalyzed by Iron(III) Chloride.” Soumen Sarkar, Krishnendu Bera, Sukhendu Maiti, **Srijit Biswas**, Umasish Jana,* *Synth. Commun.* **2013**, *43*, 1563–1570;
 12. “A Gold(I)-Catalyzed Route to α -Sulfenylated Carbonyl Compounds from Propargylic Alcohols and Aryl Thiols.” **Srijit Biswas**, Joseph S. M. Samec,* *Chem. Commun.* **2012**, *48*, 6586–6588;
 13. “Iron(III)-Catalyzed Nucleophilic Substitution of the Hydroxy Group in Benzoin by Alcohols.” Anvar Mirzaei, **Srijit Biswas**, Joseph S. M. Samec,* *Synthesis* **2012**, *44*, 1213–1218;
 14. “Iron-Catalyzed Synthesis of Functionalized 2H-Chromenes via Intramolecular Alkyne-Carbonyl Metathesis.” Krishnendu Bera, Soumen Sarkar, **Srijit Biswas**, Sukhendu Maiti, Umasish Jana,* *J. Org. Chem.* **2011**, *76*, 3539–3544;
 15. “Inexpensive and Efficient Synthesis of Propargylic Substituted Active Methylene Compounds Catalyzed by FeCl₃.” Sukhendu Maiti, **Srijit Biswas** and Umasish Jana,* *Synth. Commun.* **2011**, *41*, 243–254;
 16. “Iron(III)-Catalyzed Four-Component Coupling Reaction of 1,3-Dicarbonyl Compounds, Amines, Aldehydes, and Nitroalkanes: A Simple and Direct Synthesis of Functionalized Pyrroles.” Sukhendu Maiti, **Srijit Biswas**, Umasish Jana,* *J. Org. Chem.* **2010**, *75*, 1674–1683;
 17. “An Efficient Iron-catalyzed Carbon-Carbon Single Bond Cleavage *via* Retro-Claisen Condensation: A Mild and Convenient Approach to Synthesize Varieties of Esters or Ketones.” **Srijit Biswas**, Sukhendu Maiti, Umasish Jana,* *Eur. J. Org. Chem.* **2010**, 2861–2866;

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18. “New and Efficient Iron Halide Mediated Synthesis of Alkenyl Halides through Coupling of Alkynes and Alcohols.” **Srijit Biswas**, Sukhendu Maiti, Umasish Jana,* *Eur. J. Org. Chem.* **2009**, 2354–2359;
19. “Iron (III)-Catalyzed Addition of Benzylic Alcohols to Aryl Alkynes – A New Synthesis of Substituted Aryl Ketones.” Umasish Jana,* **Srijit Biswas** and Sukhendu Maiti, *Eur. J. Org. Chem.* **2008**, 5798–5804;
20. “An Efficient FeCl₃-Catalyzed Amidation Reaction of Secondary Benzylic and Allylic Alcohols with Carboxamides or *p*-Toluenesulfonamide.” Umasish Jana,* Sukhendu Maiti and **Srijit Biswas**, *Tetrahedron Lett.* **2008**, 49, 858–862;
21. “An FeCl₃-Catalyzed Highly C3-Selective Friedel–Crafts Alkylation of Indoles with Alcohols.” Umasish Jana,* Sukhendu Maiti and **Srijit Biswas**, *Tetrahedron Lett.* **2007**, 48, 7160–7163;
22. “A Simple and Efficient FeCl₃-Catalyzed Direct Alkylation of Active Methylene Compounds with Benzylic and Allylic Alcohols Under Mild Conditions.” Umasish Jana,* **Srijit Biswas**, Sukhendu Maiti, *Tetrahedron Lett.* **2007**, 48, 4065–4069.
(Certified as a most cited article during the period of year 2006–2009).

International Patent:

- “Process for preparation of α -sulfenylated carbonyl compounds from propargylic alcohols in one step.” Joseph S. M. Samec, **Srijit Biswas**, *U.S. Patent No. 20,150,011,796*. 8 Jan. **2015**.

Personal Profile:

Srijit married to Sutapa in January 2010. Sutapa is an expert in music (Rabindra Sangeet). They have a baby boy Rishi, born in 2013.

Apart from research, Srijit like to spend time with friends and family, listening music, and playing Tabla (a classical Indian musical instrument). Srijit is a Tabla Visharad, awarded from Bhatkhande Music Institute University, Lucknow.