

Dr. Nivedita Chatterjee**Date of Birth:** 23rd February 1989**Nationality:** Indian**Marital Status:** Married**Corresponding address:** 58/1 Mithapukur Lane, Bhanga Masjid, P.O. Rajbati, Burdwan-713104, West Bengal.**Phone:** +91-9476316939 (M)**E-mail:** ncchemwbcs@gmail.com

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Educational Qualification

Degree/Examination	Institution/University	Year	Division	Percentage
Ph.D	CSIR-Indian Institute of Chemical Biology	2016	-	-
M. Sc (Organic Chemistry)	University of Burdwan	2011	1 st Class	83.5%
B. Sc	University of Burdwan	2009	1 st Class	72.4%
Higher Secondary (XII th std.)	W.B.C.H.S.E.	2006	1 st Division	80.7%
Madhyamik (X th std.)	W.B.B.S.E.	2004	1 st Division	82.7%

Other Achievements

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- CSIR-NET Examination December 2010, December 2011
 - Received CSIR-JRF fellowship, 2011
 - Received CSIR-SRF fellowship, 2013

Research Experience

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- ❖ Worked as Senior Research Fellow (SRF) at CSIR-Indian Institute of Chemical Biology, Kolkata, India (July 2013-May 2016).
 - ❖ Worked as Junior Research Fellow (JRF) at CSIR-Indian Institute of Chemical Biology, Kolkata, India (July 2011-June 2013).

Doctoral Thesis

Title of the thesis: ‘**Synthetic Studies On Fused N-/O- Based Heterocycles And Sugar Containing Heterocyclic Molecules Of Biological Importance.**’ under the joint supervision of Dr. Asish Kumar Sen, Emeritus Scientist, CSIR-Indian Institute of Chemical Biology, Govt. of India, and Dr. P. Jaisankar, Senior principal Scientist, CSIR-Indian Institute of Chemical Biology, Govt. of India.

Research Area

- ❖ Development of green methodology for the synthesis of novel heteroaromatics/small molecules and synthesis of carbohydrate-based heterocycles.
- ❖ Novel metal catalyzed tandem reactions to construct structurally unique ‘small molecules’ (isoindolinones, indolyl-isoindolinones, benzimidazoles, furo[3,2-*h*] quinolines etc.) involving tandem Sonogashira/Heck-cyclization in aqueous medium or under anhydrous medium or by chemoselective functional group inter conversion.
- ❖ Use of metal nanoparticles in organic synthesis.

Technical Skill

- ❖ Purification and characterization of organic compounds (oligosaccharides and small molecules) by NMR (1D and 2D), IR and Mass spectrophotometer.
- ❖ Experience in operation of instruments like GC, NMR and HPLC.

Scholarships awarded

- ❖ Senior Research Fellowship awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India (2013).
- ❖ Junior Research Fellowship awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India (2011).
- ❖ Qualified NET (CSIR) in December 2010 (National level examination).
- ❖ Qualified NET (CSIR) in December 2011 (National level examination).

Publications

1. **Nivedita Chatterjee**, Swarbhanu Sarkar, Rammyani Pal, Asish Kumar Sen*, A green approach for the regio- and stereo-selective syntheses of (Z)-3-methyleneisoindoline-1-ones in aqueous medium, *Tetrahedron Letters*, **2013**, 54, 3748–3751.
2. **Nivedita Chatterjee**, Swarbhanu Sarkar, Rammyani Pal, Asish Kumar Sen*, An approach toward the syntheses of triazolo benzoxazines, triazole quinoxalines, triazolo benzodiazepines, triazolo benzoxazepines, and triazolo benzothiazines via a simple and convenient protocol using basic

- alumina as solid support, *Tetrahedron Letters*, **2014**, 55, 2261–2265.
3. **Nivedita Chatterjee**, Rammyani Pal, Swarbhanu Sarkar, Asish Kumar Sen*, Application of nanodomain cubic cuprous oxide as reusable catalyst in one-pot domino Sonogashira-cyclization: Synthesis of triazole-fused tetracyclic glycosides in aqueous only medium, *Tetrahedron Letters*, **2015**, 56, 3886–3889.
 4. **Nivedita Chatterjee**, Rammyani Pal, Swarbhanu Sarkar,* Asish Kumar Sen*, Cubic nano-copper(I) oxides as reusable catalyst in consecutive decarboxylative CAH arylation and carbonylation: rapid synthesis of carbonyl dibenzofurans, *Tetrahedron Letters*, **2016**, 57, 4956–4960.
 5. **Nivedita Chatterjee**, Priyajit Chatterjee, এ বছর শরীরবিদ্যা অথবা চিকিৎসাবিজ্ঞান এবং রসায়নে নোবেল পুরস্কার, **জ্ঞান ও বিজ্ঞান** (ISSN 2454-7727), **2023**, 811-815.
 6. **Nivedita Chatterjee**, Priyajit Chatterjee, পরিবেশ বান্ধব বায়োপ্লাস্টিক, **জ্ঞান ও বিজ্ঞান** (ISSN 2454-7727), **2024**, 269-271.
 7. Swarbhanu Sarkar, **Nivedita Chatterjee**, Manas Roy, Rammyani Pal, Sabyasachi Sarkar, Asish Kumar Sen*, Nanodomain cubic cuprous oxide as reusable catalyst in one-pot synthesis of 3-alkyl/aryl-3-(pyrrole-2-yl/indole-3-yl)-2-phenyl-2,3-dihydro-isoindolinones in aqueous medium, *RSC Adv.*, **2014**, 4, 7024-7029.
 8. Rammyani Pal, Swarbhanu Sarkar, **Nivedita Chatterjee**, Asish Kumar Sen*, A green-chemistry approach for the efficient synthesis of triazole benzoxazepines or triazolo benzodiazepines in aqueous micellar system, *Tetrahedron Letters*, **2014**, 55, 1452–1455.
 9. Rammyani Pal, Swarbhanu Sarkar, **Nivedita Chatterjee**, Asish Kumar Sen*, Efficient synthesis of 1,4-disubstituted triazolyl N-carboxamides via a simple and convenient MCR using basic alumina as solid support, *Tetrahedron Letters*, **2013**, 54, 5642–5646.
 10. Swarbhanu Sarkar,*[‡] Rammyani Pal,[‡] Manas Roy,[‡] **Nivedita Chatterjee**,[‡] Sabyasachi Sarkar, Asish Kumar Sen*, Nanodomain cubic copper (I) oxide as reusable catalyst for the synthesis of amides by amidation of aryl halides with isocyanides, [‡] Contributed equally to the work, *Tetrahedron Letters*, **2015**, 56, 623-626.
 11. Rammyani Pal, **Nivedita Chatterjee**, Manas Roy, El Said A. Nouh, Sabyasachi Sarkar, Parasuraman Jaisankar, Swarbhanu Sarkar* and Asish Kumar Sen*, Reusable palladium nanoparticles in one-pot domino Sonogashira-cyclization: Regio- and stereo- selective syntheses of (Z)-3-methyleneisoindoline-1-ones and furo[3,2-h]quinolines in water, *Tetrahedron Letters*, **2016**, 57, 43–47.
 12. Swarbhanu Sarkar, Rammyani Pal, **Nivedita Chatterjee**, Samrat Dutta, Subhendu Naskar, Asish Kumar Sen*, A green approach for highly regioselective syntheses of furo[3,2-h]quinolines in aqueous medium, *Tetrahedron Letters*, **2013**, 54, 3805–3809.
 13. Shyam Ji Gupta, **Nivedita Chatterjee**, Rammyani Pal, Samrat Dutta, Swarbhanu Sarkar, Asish Kumar Sen* Four component one-pot synthesis of a branched mannose pentasaccharide: p-methoxy benzyl ether used as an in situ removable carbohydrate protecting group, *Trends in Carbohydrate Research*, **2013**, 5, 49-52.

Poster/Oral presentation in symposium/conference

- “A green approach for the regio- & stereo-selective syntheses of (Z)-3-methyleneisindoline-1-ones in aqueous medium” at *National Carbohydrate conference, CFTRI, Mysore, 13-15 December, 2012*.
- An approach towards one-pot syntheses of branched-oligomers: combining glycodesilylation, regioselective reductive cleavage of arylidene acetals and glycodeetherylation. *International symposium on challenges in chemical biology; Kolkata, India, January 27-29, 2013*.
- National Seminar on “Design, Synthesis, Interactions, Chemical and Biochemical Activities of Different Functional Molecules, The University of Burdwan, 4-6th February 2016.

Workshops and conferences

- National Seminar on “Chemistry Today”, The University of Burdwan, 18-20 March, 2010.
- CARBO XXVI, CSIR-IICB, Kolkata, 23-25 November, 2011.
- Participated in Training Programme on Laboratory Safety: Radiation Safety, Chemical safety & Bio safety, IICB, Kolkata, 18th September, 2013.
- Participated in the International Symposium on Challenges in Chemical Biology, CSIR-IICB, Kolkata, 27-29th January, 2013.
- National Seminar on “Centenary Celebration of Bose Statistics”, The University of Burdwan, 22nd May, 2024.