

## Dr. Seema Dwivedi

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### ACADEMIC DETAILS:

- **Ph.D.** in chemistry from University of North Bengal awarded in 2019.  
Title of thesis: *Green Approaches Towards Transition-Metal-Catalyzed and Metal-free C-C and C-heteroatom Coupling Reactions*
- **JRF** in CSIR research project entitled *Synthesis of benzimidazole based NHC-metal complexes & their application in organic transformation (2013-2015)*.
- **M. Sc.** in chemistry (organic chemistry specialization) completed in 2010 from University of North Bengal.
- **B. Sc. Hons.** in chemistry from Siliguri College completed in 2008.

### AWARDS AND RECOGNITION:

1. GATE 2010
2. NET June-2011

### AREA OF EXPERTISE:

Organic synthesis, Catalysis, Coupling reaction, Green synthesis, NHC catalyst, Ionic liquid synthesis.

### PUBLICATIONS:

1. Recent Advances in Copper Catalyzed Tandem Processes: An Unprecedented Boom in Heterocycle Synthesis. P. Ghosh, **S. Dwivedi**, and S. Das., *In Cross Coupling reactions: an overview*; J. Vrijdag; Nova Science publishers: New York, **2020**, 123.
2. Green procedure for highly efficient, rapid synthesis of imidazo[1,2-a]-pyridine and its late-stage functionalization. Prasanjit Ghosh, Bhaskar Ganguly, Barnali Kar, **Seema Dwivedi**, and Sajal Das, *Synthetic Communications*, **2018**, 48 (9), 1076.
3. Synthesis of 6-aryl substituted 4-quinolones via Suzuki cross coupling, Sumanta Gupta, Prasanjit Ghosh, **Seema Dwivedi** and Sajal Das, *RSC Adv.*, **2014**, 4, 6254.

4. *N*-Heterocyclic Carbenes (NHCs) in Asymmetric Organocatalysis, **Seema Dwivedi**, Sumanta Gupta and Sajal Das, *Current Organocatalysis*, **2014**, 1, 13.
5. Development of a green etiquette for Pd catalyzed ligand free homocoupling reaction of arylboronic acids at ambient conditions., **Seema Dwivedi**, Soumik Bardhan, Prasanjit Ghosh and Sajal Das, *RSC Adv.*, **2014**, 4, 41045.

#### **SEMINAR/ WORKSHOP/ SYMPOSIUMS**

- **Oral Presentation:** “Recent trends in Green Chemistry” in the National Seminar “Frontier in Chemistry –2014” organized by Department of Chemistry, NBU and funded by UGC and SAP (DRS–III), held at University of North Bengal, Darjeeling, India, March 11-12, **2014**.
- **Poster Presentation:** “Additive free Homocoupling Reaction in Microemulsion at Ambient condition” **Seema Dwivedi**, Sumanta Gupta, Prasanjit Ghosh, and Sajal das in **Inter-National Symposium, “5<sup>th</sup> Asian Conference on Colloid and Interface Science (ACCIS-2013)”**, at University of North Bengal, Darjeeling, India, November 20-23, **2013**.
- October **2020**: National seminar on “*Frontiers in Chemistry-2020*” held at the University of North Bengal, Darjeeling.
- March **2014**: National Seminar on “*Frontiers in Chemistry-2014*” held at Department of Chemistry, University of North Bengal, Darjeeling.
- Feb **2014**: “*16<sup>th</sup> CRSI National Symposium in Chemistry (NSC-16)*” held at IIT Bombay, Powai, Mumbai.
- August **2013**: Workshop on “*Diversities and Frontiers in Chemistry*” held at the University of North Bengal, Darjeeling.
- April **2013**: Science Academe’s Lecture workshop on “*Modern Trends in Chemistry*” held at Department of Chemistry, Sikkim Government College, Tadong, Sikkim.
- Feb **2013**: Workshop on “*Intellectual property and Innovation management in Knowledge era*” organized by National Research Development Corporation, New Delhi and University of North Bengal, Darjeeling.
- Feb **2013**: National seminar on “*Frontiers in Chemistry-2013*” held at the University of North Bengal held at the University of North Bengal, Darjeeling.
- December **2008**: “*Trends in Surface Science and Related Areas (TSSRA)*” organized by University of North Bengal, Darjeeling and Indian Society for Surface Science and Technology, Jadavpur University, Kolkata at University of North Bengal.