


# Dr. Somsuvra Banerjee

Indian National

DOB: May 07<sup>th</sup>, 1990

Fluent in English, Hindi, and Bengali (mother tongue)

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## Education

- Ph.D. in Chemical Sciences at CSIR-National Chemical Laboratory, Pune – 411 008, India; [Aug 2014-Sep 2017](#) and Indian Institute of Science Education and Research (IISER), Bhopal – 462 066, India; [Oct 2017 – Aug 2020](#); Supervisor: **Dr. Nitin T. Patil**  
**Thesis title:** Alkynylative Cross-coupling reactions with ethynylbenziodoxolones (EBXs) via Au(I)/Au(III) Catalysis
- M.Sc. in Chemistry at University of Delhi, New Delhi – 110 007, India; [Aug 2011 to Jul 2013](#)
- B.Sc. in Chemistry at St. Xavier's College (Autonomous), Kolkata – 700 016, India; [Aug 2011 to Jul 2011](#)

## Employment history

- Postdoctoral Researcher**, RIKEN Center for Sustainable Resource Science (Supervisor: **Dr. Laurean Ilies**), Saitama – 351-0198, Japan; [Nov 2020 to present](#)
- Junior Scientist** at Chemical Research Department (Process), Ranbaxy Laboratories Ltd. (Now Sun Pharmaceutical Industries Ltd.), Gurgaon – 122 005, India; [Jul 2013 to Jun 2014](#)

## Selected presentations

- Gold-catalyzed alkynylative Meyer-Schuster rearrangement (**Oral Presentation**)  
Interactions 2020 (Feb 2020), IISER-Bhopal, Bhopal, India
- Redox-neutral gold-catalysis in 1,2-oxyalkynylation of *N*-allenamides with Ethynylbenziodoxolones (**Oral Presentation**)  
XIV J-NOST (Dec 2018), CSIR-IICT, Hyderabad, India
- Gold-catalyzed 1,2-oxyalkynylation of *N*-allenamides with Ethynylbenziodoxolones (**Poster Presentation**)  
I-DEC 2018 (Dec 2018), IISER-Bhopal, Bhopal, India
- Exploiting the dual role of ethynylbenziodoxolones in gold-catalyzed C(sp)-C(sp) cross-coupling reactions (**Poster Presentation**)  
Science day (Feb 2018), CSIR-NCL, Pune, India.

## Academic achievements

- Qualified CSIR-UGC National Eligibility Test (NET - June 2013) with UGC rank 67
- Recipient of INSPIRE Fellowship during M.Sc. studies

## Peer-reviewed publications

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- **Banerjee, S.;** Ambegave, S.; Senthilkumar, B.; Patil, N. T. Gold-Catalyzed Alkynylative Meyer-Schuster Rearrangement. *Org. Lett.* **2020**, *22*, 4792–4796
- **Banerjee, S.;** Bhoyare, V.W.; Patil, N. T. Gold and Hypervalent Iodine(III) Reagents: Liaisons over a Decade for Electrophilic Functional Group Transfer Reactions, *Chem. Commun.* **2020**, *56*, 2677-2690
- **Banerjee, S.;** Senthilkumar, B.; Patil, N. T. Gold-Catalyzed 1,2-Oxyalkynylation of *N*-Allenamides with Ethynylbenziodoxolones. *Org. Lett.* **2019**, *21*, 180 – 184
- Shaikh, A. C.; **Banerjee, S.;** Mule, R. D.; Bera, S; Patil, N. T. External Oxidant-Dependent Reactivity Switch in Copper-Mediated Intramolecular Carboamination of Alkynes: Access to a Different Class of Fluorescent Ionic Nitrogen-Doped Polycyclic Aromatic Hydrocarbons". *J. Org. Chem.* **2019**, *84*, 4120 – 4130
- Shaikh, A. C.; Varma, M. E.; Mule, R. D.; **Banerjee, S.;** Kulkarni, P. P.; Patil, N. T. Ionic Pyridinium-Oxazole Dyads: Design, Synthesis, and their Application in Mitochondrial Imaging. *J. Org. Chem.* **2019**, *84*, 1766 – 1777
- Akram, M. O.; **Banerjee, S.;** Saswade, S. S.; Bedi, V.; Patil, N. T. Oxidant-free Oxidative Gold Catalysis: The New Paradigm in Cross-Coupling Reactions. *Chem. Commun.* **2018**, *54*, 11069 – 11083
- **Banerjee, S.;** Patil, N. T. Exploiting the Dual Role of Ethynylbenziodoxolones in Gold-Catalyzed C(Sp)–C(Sp) Cross-Coupling Reactions. *Chem. Commun.* **2017**, *53*, 7937 – 7940

