



PERSONAL INFORMATION

Date of Birth: 6 July 1995 | *Place:* Sankarpur, Baruipur, Kolkata 743610, West Bengal, India

EDUCATION

Postdoctoral Research in Organic Chemistry with Prof. Devid Sarlah at Rice University, Houston, United States	Yet to start from 1 st September 2025
Ph.D. in Organic Chemistry, Indian Institute of Science (IISc), Bangalore, India (Submitted Ph.D. thesis on 24 th Dec 2024 and Defended on 11 th March 2025)	2018-2025
M.Sc. Chemistry, Indian Institute of Technology (IIT), Bhubaneswar, India	2016-2018
B.Sc. Chemistry (Hons.) Dinabandhu Andrews College, University of Calcutta, Kolkata, India	2013-2016

RESEARCH & TRAINING

Ph.D. Thesis - <i>Advisor:</i> Professor Santanu Mukherjee Indian Institute of Science, Bangalore, India <i>Research topic:</i> Asymmetric Catalysis, Organocatalysis, Total Synthesis <i>Thesis title:</i> Breaking Symmetry – Organocatalytic Enantioselective Synthesis of Natural and Unnatural Ladderanes	08/2018-12/2024
M.Sc. Thesis - <i>Advisor:</i> Professor Tabrez Khan Indian Institute of Technology (IIT), Bhubaneswar, India <i>Research topic:</i> Total Synthesis <i>Thesis title:</i> Synthetic Studies Towards the Total Synthesis of Some Bioactive Iridoids	11/2017 – 4/2018

AWARDS, FELLOWSHIPS & RECOGNITIONS

- Awarded the “[SYNLETT Best Paper of the Year 2023](#)” - *Synlett* **2023**, 34, 863-867. 2023
- Awarded the [Director's Gold Medal 2018](#) (Highest CGPA amongst the students of M.Sc. at IIT Bhubaneswar). 2018
- Awarded the [Institute Silver Medal 2018](#) (Highest CGPA amongst the students of M.Sc. in Chemistry at IIT Bhubaneswar). 2018

- Awarded the Proficiency Award 2018 (Best M.Sc. Project). 2018
- Awarded the Prime Minister Research Fellowship (PMRF) [from Aug 2019 to Aug 2023] from Ministry of Education, Government of India. 2019-2023
- Awarded the DST- INSPIRE scholarship from Ministry of Science and Technology (for the period of 2013-2018). 2013-2018

PUBLICATIONS

1. **S. Ray***, S. Das, D. Behera, P. Biswas, P. K. Tarafdar, S. Mukherjee* - *J. Am. Chem. Soc.* (under revision), ChemRxiv: <https://doi.org/10.26434/chemrxiv-2025-gmdmv>.
2. **S. Ray**, D. Behera, M. S. Harariya, S. Das, P. K. Tarafdar, S. Mukherjee* - *J. Am. Chem. Soc.* **2025**, *147*, 2523–2536.
3. **S. Ray**, S. Mondal, S. Mukherjee* - *Angew. Chem. Int. Ed.* **2022**, *61*, e202201584.
4. **S. Ray**, S. Mukherjee*, *Synlett* **2023**, *34*, 863–867. [Cover Page] [*Synlett* Best Paper of the Year 2023].
5. S. C. Mallojjala, R. Sarkar, R. W. Karugu, M. S. Manna, **S. Ray**, S. Mukherjee*, J. S. Hirschi* - *J. Am. Chem. Soc.* **2022**, *144*, 17399–17406.
6. A. Salam, **S. Ray**, M. A. Zaid, D. Kumar, T. Khan* - *Org. Biomol. Chem.* **2019**, *17*, 6831–6842.

POPULAR SCIENCE ARTICLES

1. “Centrally Chiral Arenes: From Concept to Catalytic Enantioselective Synthesis” **S. Ray**, B. Ghosh, S. Mukherjee, *AsiaChem* **2023**, *3*, 34–41. [Invited contribution for the Special Issue on Chemistry in India]

PATENT

1. “Benzo Compounds and Process Thereof” - **S. Ray**, S. Mukherjee, Indian Patent Appl. No. 202441088524 [6th May 2025].

POSTER & ORAL PRESENTATION

1. **Poster:** “Breaking Symmetry – Organocatalytic Enantioselective Synthesis of Natural and Unnatural Ladderanes” in International Conference on Organometallics and Catalysis (ICOC-2023) at Goa, India. [October 2023]
2. **Oral:** “Breaking Symmetry – Organocatalytic Enantioselective Synthesis of Natural and Unnatural Ladderanes” in ICOC-2023 at Goa, India. [October 2023]

3. **Oral:** *"Breaking Symmetry – Organocatalytic Enantioselective Synthesis of Natural and Unnatural Ladderanes"* in Pfizer Symposium at IISc Bangalore, India. [April 2023]
4. **Poster:** *"Breaking Symmetry – Organocatalytic Enantioselective Synthesis of Natural and Unnatural Ladderanes"* in PMRF Annual Symposium, IIT Madras, India. [February 2023]

TEACHING EXPERIENCE

Served as a Guest Lecturer at the Department of Chemistry, School of Natural Sciences, **Adichunchanagiri University**, B.G Nagara, Karnataka-571448, India. [2019-2023]

RESEARCH REFERENCE LINKS

Featured Research Article on IISc Website: iisc.ac.in/symmetry-breaking-approach-to-a-unique-natural-product/

Highlighted Research Work on PMRF Website: www.pmrfin.org/09-chemistry-commendable-research-works

For More Details, Please Visit My Research Website: sayanray6.wixsite.com/website

REFERENCES

My Ph.D. Supervisor	My Ph.D. Thesis Examiner	Honorary Professor at IISc
Prof. Santanu Mukherjee Department of Organic Chemistry IISc Bangalore Email: sm@iisc.ac.in	Prof. Alakesh Bisai Department of Chemical Sciences IISER Kolkata Email: alakesh@iiserkol.ac.in	Prof. Tushar Kanti Chakraborty Department of Organic Chemistry IISc Bangalore Email: tushar@iisc.ac.in