



Subarna Sukanya Padhy

PhD Chemistry

IISER Tirupati

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PERSONAL INFORMATION

DATE OF BIRTH	:	30 th March, 1998
FATHER'S NAME	:	AMIYA KUMAR PADHY
MOTHER'S NAME	:	SURAVI PADHY
GENDER	:	FEMALE
MARITAL STATUS	:	SINGLE
LANGUAGES KNOWN	:	ENGLISH (can read, write and speak), HINDI (can read, write and speak), ODIA (can read, write and speak)
NATIONALITY	:	INDIAN

EDUCATION DETAILS

SL. NO	DEGREE	BOARD/UNIVERSITY	INSTITUTION NAME	YEAR	PERCENTAGE /CGPA
1.	PhD (Chemistry)	IISER Tirupati	IISER Tirupati	2022-2023	PhD Course Work- 10 CGPA
2.	M.Sc (Chemistry)	Pondicherry University, Puducherry	Pondicherry University, Puducherry	2018-2020	9.19 CGPA (3 rd Rank)
3.	B.Sc Chemistry Honours	Khallikote University, Odisha	Khallikote Autonomous College, Odisha	2015-2018	8.5 CGPA
4.	12 th (Science)	C.B.S.E.	D.A.V. Public School, Odisha	2015	89.8% (449/500)
5.	10 th	C.B.S.E.	D.A.V. Public School, Odisha	2013	9.6 CGPA

RESEARCH EXPERIENCE

- **Project Associate (July 2021-July 2022)**

TITLE: Non-innocent ligands for catalysis with earth-abundant metals

Supervisor: Dr. Ekambaram Balaraman

IISER Tirupati, Andhra Pradesh

- **Master's Thesis Project (July 2019- March 2020)**

TITLE: Synthesis of α -dehydro- β -amino ester derivatives from bromo derivatives of dienyl ester and cyclic amine

Supervisor: Prof. M. Bakthadoss

Pondicherry University, Puducherry

- **Summer Internship (May 2019- July 2019)**

TITLE: Synthesis of Organic electrophiles and Organometallic zinc nucleophile

Supervisor: Dr. Biplab Maji

IISER Kolkata, West Bengal

RESEARCH INTERESTS

- Organometallic chemistry, Homogeneous catalysis, Transfer hydrogenation, CO₂ fixation, Green energy storage, and Catalysis in sustainable applications

TECHNICAL SKILLS

- Hands-on experience in purification and characterization of organic molecules from NMR spectroscopy and Mass spectrometry.
- Adept in Column chromatography, Thin layer chromatography and solvent distillation.
- Well acquainted with various chemistry-related software viz. Scifinder, MestreNova, ChemDraw, and Origin.
- Trained in handling instruments like Gas chromatography, GC-MS, UV-Vis spectrometer, Polarimeter, Gasometer, FT-IR spectroscopy, SC-XRD, Glove-box, Rotavapor, Schlenk line, and Solvent purification systems.
- Capable of performing kinetic studies, mechanistic studies, and optimization of catalytic reactions.

TEACHING SKILLS

- Teaching assistant for BSMS 2nd year students of IISER Tirupati for the course CHM 221-Organic Chemistry.
- Teaching assistant for BSMS 1st year students of IISER Tirupati for the course CHM 122-Chemistry Lab I.

CONFERENCES

- Presented Poster at an International Conference, NanoMaterials and Sustainable Applications (NANO-SA-2023), organized by Institute of Chemical Technology, Mumbai-Marathwada Campus, Jalna.

- National Symposium on Recent Advances in Chemistry (NSRAC-2020) organized in association with UGC-SAP (DSA-1) and DRDO, Pondicherry University.
- National Symposium on Recent Advances in Chemistry (NSRAC-2019), Pondicherry University.

ACHIEVEMENTS/AWARDS

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| • UGC-NET JRF in Chemistry, AIR 62 | Jun 2023 |
| • Qualified GATE 2023 in Chemical Sciences, AIR 167 | 2023 |
| • 3rd Rank , M.Sc Chemistry | 2020 |
| • PG-Merit Scholarship, Government of Odisha | 2018-2020 |
| • PG merit scholarship, Institute of Mathematics and its Applications (IMA), Govt. of Odisha | 2018-2020 |
| • Pondicherry University M.Sc entrance test (AIR-40) | 2018 |
| • CUCET qualified (Central Universities Common Entrance Test) | 2018 |
| • IIT JAM Qualified (Chemistry) | 2018 |
| • Vedanta Scholarship | 2015-2018 |
| • Sanskrit scholarship for Subject Topper in 10 th | 2013 |

PUBLICATIONS

- Reshma Babu, **Subarna S Padhy**, Ganesan Sivakumar, and Ekambaram Balaraman* **Expedient Tandem Dehydrogenative Alkylation and Cyclization Reactions Under Mn(I)-Catalysis**. *Catal. Sci. Technol.*, 13, 2763-2771 (2023).
- Reshma Babu, **Subarna Sukanya Padhy**, Rohit Kumar, and Ekambaram Balaraman*, Catalytic amination of alcohols using diazo compounds under Mn-catalysis through hydrogenative N-alkylation reaction. *Chem. Euro. J.*, 2023, Accepted (<https://doi.org/10.1002/chem.202302007>).
- Murugan Subaramanian, **Subarna Sukanya Padhy**, Chandrakanth Gouda, Tamal Das, C. P. Vinod, Kumar Vanka and Ekambaram Balaraman*, **Chemoselective transfer hydrogenation driven by oxidative coupling under neutral conditions**. (Manuscript communicated)