

DEEPAK TODKAR

Research Associate

Syngene Intl. Ltd.

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CARRER OBJECTIVE

To be associated with a progressive organization which can provide me with a dynamic work sphere to extract my inherent skills as a Professional, and to pursue a research-focused role where I can contribute to new discoveries and advancements in my field of interest.

PROFILE HIGHLIGHTS

- Having 1.8 years Industrial experienced as Research Associate.
- Responsible for carrying out organic synthesis, purification and analysis of novel molecules.
- Separation and purification methods such as **column chromatography**, crystallization, distillation etc.
- Handling of various types of chemical reactions from laboratory small scale (5 mg) to large-scale (100gm) production
- Multi-steps synthesis and their characterization by **TLC, LCMS, UPLC, GCMS, HPLC, NMR.**
- Proper documentation such as eLNB writing, daily report, final report.
- Quick adaptability, Effective working, co-operative and result oriented approach.
- Worked as Research Associate in Syngene Intl Pvt Ltd. since August2021 till April 2023.

PROFESSIONAL SKILLS

REACTIONS HANDLED:

- Experience in carrying out oxidation, reduction, hydrogenation, alkylation,
- Reductive-amination, Mitsunobu reaction, swern oxidation, Grignard and Acid amine coupling reactions and other reactions.
- Coupling reactions like Buchwald coupling, Suzuki coupling, Stille Coupling,
- Heck Coupling and Sonogashira coupling Handled sensitive reactions like Azide Preparation.

REAGENTS HANDLED:

- Oxidizing Agents: MnO₂, DMP, Py-SO₃ etc.
- Reducing agents: NaBH₄, LAH, NaCNBH₃, NaBH (OAc)₃, LiBH₄, BH₃ in DMS.
- Pyrophoric agents: n-Buli, Pd-C, Rani-Nickel LDA, MeLi, LiHMDS, KH, NaH etc.
- Protection groups: Boc-anhydride, Cbz, SEM-Cl, PMB-Cl, Mesyl Protection, Trityl protection, OTf, TBDMS Protection etc.
- Acid-Amine coupling reagents: HATU, T₃P, HOBt, PyBOP etc.

INSTRUMENT USED:

- Hydrogenation Apparatus, Autoclave, Microwave reactor.
- Purification of compounds by using Combiflash column and Isolera.
- Reverse phase Grace
- UPLC

COMPUTER KNOWLEDGE

- Literature survey for carry out new reactions using **Scifinder**.
- Having computer proficiency like **Chem draw**, ISIS draw, MS office.

EXTRACURRICULAR ACTIVITY

- Basics of ESR spectroscopy organized by **IIT BOMBAY**, India.
- Project on Synthesis of bioactive and nutraceutical compounds from fruit waste.
- Project on Vermi technology from Modern College, Pune, India.
- Two Intensive special workshop on MICROSCOPY organized by DBT STARCOLLEGEScheme, NEWDELHI.

ACADEMIC PROFILE

Sr. No.	DEGREE	YEAR OF PASSING	UNIVERSITY	PERCENTAGE
1	Masters in Organic Chemistry	2021	Fergusson College.	8.85CGPA
2	Bachelors in Chemistry	2019	PUNE UNIVERSITY	75
3	HSC	2016	MAHARASHTRA STATEBOARD	63.23
4	SSC	2014	MAHARASHTRA STATEBOARD	76.20

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.

Deepak Todkar.