Swapna Samala Anand Nagar Colony Boduppal - Hyderabad

Email: swapna.samala@ymail.com

Ph: +91 6303079026



Key Skills

- > Synthesis and development of new organic molecules.
- ➤ Sound knowledge of isolation, separation and purification techniques.
- ➤ Interpretation, identification and characterization of molecules using H¹-NMR, C¹³-NMR, ICP-OES, LC-MS, ESI-MS, HPLC and FTIR.
- ➤ Independently propose, direct and perform chemical reactions/ experiments with a predefined project goal such as developing new methodologies, protocols and procedure
- ➤ Involved in lab/group operation including coaching, mentoring, training, supervising.
- ➤ Positive and confident individual with strong work ethics.
- > Scientific and numerical skills
- ➤ Operating Systems: MS-DOS, Windows–XP/2007/2008 and Packages: Ms-Office2007
- > Scifinder, Reaxys, Chemdraw and Chem Sketch.

Reagents & reactions Handled

- LAH
- NaBH₄
- LiBH₄
- Zn-CN
- KCN
- Na-CN
- n-Butyl lithium
- Suzuki Coupling
- Appel Reaction
- Grignard reaction

- SOCl₂
- POCl₃
- MTS Cl
- SEM Cl
- MOM C1
- TBDPS C1
- TBDMS Cl
- Misunobu reaction
- Friedal-craft acylation

- DIBAL H
- BOC anhydride
- Me-Mg-Br
- Et-Mg-Br
- Vinyl-Mg-Br
- Friedal-craft alkylation

Work Experience

Research Scientist (R & D) Nov-2020 to Till the date Sambi Pharma Pvt Ltd-Hyderabad

- Plan for the project execution in a smooth manner
- Finding the best route for the target molecule synthesis
- Trial batches for cracking feasibility and critical steps in the reaction
- Multi steps; mg scale to gram scale reactions
- Responsible for the large scale reactions by guiding the team members
- Apply experience and knowledge to identify and implement improved ways of working
- Manage, lead, motivate, train and develop a team
- Responsible for managing projects with the scientific integrity of client projects in a timely, effective and high quality manner
- Responsible for providing liaison communication with key members of client organizations
- Computer literacy in the form of MS-Office, on-line computer searching
 - Reporting to Director R&D

Research Associate (R & D)

September-2013 to October-2016

Chiral Biosciences Pvt Ltd- Hyderabad

- Collection and evaluation of literature, costing and scalability of processes.
- Design for ROS for target molecules; multi step organic synthesis
- To ensure good laboratory practices in the lab.
- Maintenance of documents like patents, literature, analytical reports
- Research, Synthesis, Validation, Documentation, Calibration, solution preparation, analytical instrumentation like GC, HPLC, UV-VISspectrophotometer, Elemental analysis &titrations
- Preparing research proposals and funding applications
- Demonstrating procedures and supervising junior staff including scholars and lab technicians
- Developing original solutions to problems
- Process development for new drugs &intermediates.
- Responsible for literature survey and its analysis to plan a non-infringing, scalable and economic route; patent analysis preferred.

- Synthesis of new or existing molecules by employing different methods.
 Key involvement in the process development scale-up by optimization of reaction conditions / manufacturing process and validation.
- Comply with all regulations and policies; Perform all work in safe manner;
 Maintain proper records (notebooks, analytical data and scale-up records) as per relevant SOP's including environmental and safety.
- Route scouting, chemistry evaluation, process development, optimization of drugs.
- Monitoring the daily research activities and give effective solutions.
- Liaising with representatives from other departments like manufacturing and Quality dept. to update on progress and also communicate future requirements for product transfer
- Actively involved and provided necessary back bone support to the team for customer Perrigo audits and ISO 9001:2008, ISO 22000:2005 and US-FDA audits.
 - o Reporting to Dy. Manager R&D

Education Details

- ➤ PhD Synthetic Chemistry (2021) IFHE & IICT- Hyderabad.
- ➤ M.Sc Organic Chemistry (2013) Mahathma Gandhi University, Nalgonda (84%)
- ➤ B.Sc.(Bio-technology) (2011) Osmania University Hyderabad (72%)
- ➤ Intermediate (2008) Board of Intermediate Education (76.4%)
- ➤ SSC (2006) Board of Secondary Education (69%)

Personnel information

Name: Swapna Samala

Father's name: Shankaraiah

Husband's name: B. Naresh Kumar

Date of Birth: 19th Sep – 1992

Nationality: Indian – Hindu

Language's known: Telugu, English and Hindi

Contact number: **+91 6303079026**, +91 9381002091