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|  | **Mr. Nilesh Pathak**   * **Senior Associate Scientist:** Organic Synthesis professional with cross functional competencies in all phases of synthesis research, strategic planning, and targeting assignments in organization. |
| * **Phone:** * +91-9762577517 * +91-9309946680 * **E-Mail:** * nilaryan24@gmail.com * **Linkedin:** * linkedin.com/Nilesh Pathak  Skill Highlights  * D**esign and execute multi-step synthesis.** * Troubleshooting. * Team Player * Collaborative * Communication and presentation. * Innovative * Integrity and ownership * Analytical Thinking  Languages  * English, * Hindi, * Marathi | **Profile Summary:**   * Highly focused and Organic Synthesis research professional, working as Senior Associate Scientist at ***Syngene*** international at Bangalore. With over the **15 years’ experience in field of synthetic chemistry R&D department and Scale ups.** * Achieved **FTTM (Fast Track Talent Management) Award 2019** for consistence best performance, excellent productivity, meet client and organizational expectation and for Troubleshooting. * **Recognized many times for spot awards and Received Appreciations from clients and Organization. STAR performer** since from 2011 to 2019. * Organic Synthesis research professional with strong background in Research, necessary skills, knowledge, qualification and com-potencies. Committed to achieve all goals in High efficient manner while meeting deadlines. Expert in handling cryogenic reactions, high pressure reactions, high temperature reactions, asymmetric hydrogenation, Carbonylation Reaction. * Key Responsibilities are planning and modification of synthesis pathways based on past experience and literature-patent analysis. * Expertise in various aspects of organic chemistry like building blocks, Functional group transformations, parallel synthesis of library molecules and multi-step synthesis. * Updating, learning and Conducting Advanced synthesis in organic chemistry. * Expertise in Advanced purification techniques like Combiflash/Grace Normal as well as Reverse phase column chromatography. * Expert in physical separation operations like extraction, filtrations, distillations, crystallization, precipitation, washings/trituration etc. Defining project risks (Analyze chemical and reaction Hazards then perform reaction with all safety measures. * Control of raw material/reagent management in the project. * Start every day with positive attitude and work effectively in lab including set up reactions, purifications, analyzing data, interpretation and reporting of the result. * Laboratory work recorded in **LNB/ELN** and making Updates and presentations of project. Write experimental and project overview, effectively communicate with group leaders and client. * Trained associates and led small group and achieved departmental objective. * Academic details: * **M.sc** (Organic Chemistry) from Pune University (Fergusson College, Pune) with First Class with **Distinction.** * **B.sc** (Chemistry) from Pune University (T.C college Baramati) with First Class with **Distinction** * **DIPR** (Diploma in intellectual property rights Symbiosis law College, Pune). * Work Experience   ***Total years of experience in industry (2006-till date): 15 years of experience in field of Synthetic*** Chemistry R&D department and Scale ups.  [Syngene International Limited logo](https://www.linkedin.com/company/219718/) **Syngene international*,* Bangalore (Currently working):**  As aSenior Associate Scientist at Drug Discovery and Integrated Drug Discovery (IDD) department.  [Sai Life Sciences Ltd logo](https://www.linkedin.com/company/121109/)**Sai Life Sciences Ltd*:*** Medicinal chemistry and scale ups division (Since April,2008-Feb 2021)  [TCG Lifesciences Pvt Ltd. logo](https://www.linkedin.com/company/3991316/)  **TCG life Sciences (Chembiotek International Ltd )**,  Medicinal Chemistry division (Start June 2006 to April 2008)   * **Significant Accomplishment/Summary:**   A dynamic professional with 15 years of experience in the field of Synthetic Organic Chemistry.   * Medicinal Chemistry project worked on Anti-cancerous therapeutic area as a acute myeloid leukemia(AML), synthesized chiral pure **Tipifarnib** as a reference compound which was based on **Quinolinone** core and explore the **Azaquinolinone** synthetic chemistry which involves design and execute multi-step synthesis of targeted Azaquinolinone molecules. Which involves number of organometallic reactions. Did route scouting and process optimization, cost optimization, identified impurities, did purifications by crystallization, washings and chiral resolutions using DBT. * Developed and optimized process for the synthesis chiral molecule using Chiral Auxiliary Approach to control the stereochemical outcome of the synthesis. * **C-C** and **C-N bond formation Chemistry** demonstrates effectively with palladium catalyst. which give clean conversion and good yield for Suzuki reaction. During C-N bond formation we used various ligands like **Brett-phos, Dave phos, combiphos, PEPPSI-iPent, S-phos etc.** * **Identify pixantron impurities and synthesized in good quantity and high quality as a reference standard:** All of the impurities are dark colored and some of the impurities are unstable on Silica so the purifications also challenging work we optimized synthetic rout which can give greater purity of product * Have an experience of synthesis of Azaindole and pyrrazolo pyridine derivatives and scale ups the **Friedal craft** reaction, **Carbonylation/CO insertion reaction** on large scale in autoclave, developed control on carbonylation reaction. * Radiolabeled compounds are excellent investigative tools and widely used to carry out ADME studies during drug discovery and development stages. Have a experience in synthesis of radiolabeled compound The most commonly used radioisotopes are **14C, 13C** and **D**,**3H**. * Quality Analysis, monitoring and result interpretation of compounds like TLC, GC, LCMS,UPLC, HPLC, IR, NMR, XRD etc. * **Reactions Handled:** * Mostly handled C-C and C-N bond formation reactions like Suzuki, Buchwald, Stille, Sonogashira, Heck, Negeshi coupling, condensation, wittig reaction etc. * Halagenation reactions like Bromination, iodination, chlorination etc. * Protection deprotection reactions like THP, Boc, CBz, PMB protections for amine and Silyl, tosyl, THP protection of alcohols etc. * Amide formation using coupling reagents like HATU, TBTU,EDC,T3P etc. * CO insertion reactions i.e Carbonylation reactions performed in Autoclave. * Reduction Reactions like Hydrogenation, LAH, Boron complex etc. * Cryogenic and moisture sensitive Reactions like Lithiation, Grignard, Negeshi, swern oxidation, etc. * Oxidation Reactions like Swern, Dess-Martine, PCC, jones oxidation etc. * Nitration and Diazotization reactions. * Honours and Awards:   + **FTTM Award 2019** for consistence best performance, excellent productivity, meet client and organizational expectation and Troubleshooting.   + **Star Performer** in Sai life sciences Since from year **2015-2019**   + **SAI SPOT Award** for Troubleshooting.   + **Star performe**r in Sai life sciences year 2014.   + Appreciation certificate from **“Celgene Pharmacetical-2013”**   + Appreciation certificate from **“Celgene Pharmaceutical-2012”**   + **Star performer** in Sai life sciences year 2011.   + **Star performer** in Sai life sciences year 2010 and Appreciation from **LinkMedicine** for rout scouting and optimization of synthetic rout /chemistry. |
| Hobbies  * Gym, * Aerobics, Zumba. * Travelling  Personal Details  * **DOB: 24 October 1983** * **Marital status: Married**  Professional references**Dr. Sudhir Joshi**Director,Sailifesciences pvt.Ltd, Pune-411057 Contact-07507140002. **Dr. Atul Mahajan,** Team Leader,  Syngenta India Ltd,  Goa.  Contact-9730637135 **Dr. Gorakhnath Yellol.** Team Leader,  Emcure, Pune  Contact +91992386656 |