SHIVA CHEMUDUPATI

M.Sc., M.Phil. (Chemistry), University of Hyderabad

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| **Profile Summary** |

* Dedicated chemist combining excellent academic credentials and leadership skills with sixteen years of experience in R & D.
* Background includes extensive working medicinal chemistry, involvement in FTE, FFS (fee for service) and collaborative research programs for various clients and constantly meeting client requirements.
* Proficient in various experimental methodologies, designing synthetic routes, literature search, problem solving, interpretation of data from analytical techniques and documentation
* Strong communicator and ability to ensure execution of time bound deliverables.

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| **Core competencies** |

* In depth knowledge of modern organic chemistry and appropriate experimental techniques (mg to kg scales) and problem solving skills.
* Possess knowledge of various purification techniques which includes recrystallizations, distillations and column purifications (traditional and on automated systems like biotage and combiflash).
* Handling multiple projects (multitasking) and working on projects where no synthetic routes are available.
* Ability to generate and design synthetic schemes combining knowledge of organic reactions and literature search tools scifinder and reaxys.
* Ability to take project related decisions within defined framework.
* Execute projects via accurate planning, execution and decision making and maintain high quality of deliverables.
* Capable of lab management (lab and equipments maintenance responsibility/ownership) including personal safety, training, leading, motivating and working in a team.
* Enthusiasm to learn, improve and explore new possibilities and attain goals through patience, hard work and perseverance.
* Have good communication, presentation and management skills.

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| **Professional Experience** |

Total years of experience in pharma industry (2003-till date): **16years.**

Current CTC**:** 6.6 lakhs per annum.

**Novick biosciences Pvt. Ltd.,** Hyderabad, India

**Senior research associate-II (April 2018-Dec 2019)**

**Current Role:**

* Involved in literature search, setting up and monitoring reactions, perform workups, purifications as per project requirements and deliver final products following client protocols.
* Efficiently trained trainees and teamed up with research chemists, senior chemists, research associates.
* Taken lead role in problem solving, for performing reactions with hazardous chemicals and/or pyrophoric reagents.
* Involved in writing weekly updates, answering project related client queries and experimental write-ups.
* Assisted team leader with quotations, scheme design for new projects, chemical ordering and follow up.
* Involved in Lab maintenance, lab safety and storing chemicals.
* Involved in maintaininggood interpersonal relationships within the team and colleagues.

**Accomplishments:**

* Trained and supervised trainee chemists, senior chemists while successfully delivering the projects.
* Major role in library model synthesis (cherry pick library) of acryl amide and acryl sulphonamides from nitro pyrazoles, alkylating with various benzyl bromides followed by reduction, delivered 140 compounds out of 175 compounds (80% success rate as per client requirement) within time frame of 4 months, with minimum analytical facilities and help of research associate and two trainee chemists.
* Contributed independently, proactivelyby literature search, planning, execution and delivering final molecules of FFS projects (coumarins and dicyano pyridine molecules) which were completely exploratory by modifying synthetic routes and conditions as required.

**Sai Life Sciences Pvt. Ltd.,** Pune and Hyderabad, India

**Senior research associate-I (2013-2018)**

**Accomplishments:**

* Involved in major role in synthesizing a library of 200 molecules within timeline of 2 months appreciated by client. Having experience in synthesizing molecule on 1kg scale involving 5 steps starting from 2kgs and developed the process (experimental protocols and purification techniques) for a reputed client.
* Involved in major role in synthesizing 120 different molecules within 2 months which involves knovanagal condensations with various aldehydes synthesized in lab and also commercially available and rhodanine compounds as part of collaborative research activities with a reputed client. Around 10 molecules were found to be active and were scaled up for further biological studies.
* Synthesis of sulphonamide library of 120 molecules(sulphonamides) for cancer research within a span of 2 months timeline along with guiding junior colleague and received good appreciation and feedback from client. My contribution towards a 12 FTE program which involves synthesizing of various amines and combining them with heterocyclic scaffolds in quantities ranging from 10mg to 1g via Buchwald coupling reaction conditions. Synthesis also involved Suzuki couplings using bis (pinacalatodiboron) and different organo-palladium catalysts using different bromo- scaffolds.
* Involved in a 3 FTE program for synthesis of alkyne scaffolds and combining them with various halogenated appendages in quantities ranging from 25 mg to 500 mg scale via sonagashira coupling.Contributed towards synthesis of molecules which mimics Posaconazole, a triazole antifungal drug which includes chiral separation of enantiomers.Active molecules were scaled up for biological studies.
* Involvedin developing process for synthesizing thiazole amine compound which is an intermediate used for an active drug molecule and dueteriated variant of same drug molecule.

**GVK Biosciences Pvt.Ltd, Hyderabad**, TS, India

**Senior research associate (2010-2012)** at GVK Biosciences

* Worked on FFS projects and synthesized the assigned targets in quantities of 50g. Involved in training and leading team of chemists and making weekly and final reports.
* Worked on collaborative research program for a prominent agro based client. The program involved synthesizing amides by combining acid and ester scaffolds with various amines on milligram scale which required various amide coupling methods. We succeeded in developing a lead molecule and scale up procedures well appreciated by client and internal management. We (team) received award for best teamwork category by the organization.

**Research associate (2006-2010)**at GVK Biosciences

* Worked as a billable FTE in a 30 FTE program for a major pharma client involving independently in synthesizing targets in quantities ranging from 50 mg to 25g, meeting client requirements. Worked on FFS projects independently involving synthesizing targets in quantities ranging from 50g to 500g within specified timelines.
* We succeeded in synthesizing boronic acid scaffold on 500g quantity involving 5 steps well before timeline of 1.5 months. Final product involved synthesis of boronic acid from bromo compound using n-BuLi and triisopropylborate. We could synthesize 300g and exhausted all starting materials. We solved the problem by brominating des bromo product and synthesizing the remaining quantity.
* One of the projects involved purification of highly polar diol intermediate on kg scale and we developed compatible method for purification. Succeeded in 9 step synthesis of Pyrrolidine moiety on 50g scale starting from 2kgs within timeline of 2 months. Synthesis involved using Sodium cyanide in kg scale, unstable intermediates, low yields and separation of diastereomers by recrystallization. Inone of the projects we succeeded in separating cyclized and eliminated product by brominating the product and separating the non- polar brominated product from polar cyclized product.

**Trainee chemist and senior chemist (2003-2006)** at GVK Biosciences

* Joined as trainee chemist in February 2003, worked as senior chemist (2004-2006). Handled various cyanides,Raney nickel,Pd-C,n-BuLi, hydride reducing agents, Grignard reagents, sodium hydride and sodium. PreparedWittig salts from small scales to large scales. Performed purifications from small to large scaled by column chromatography, vacuum distillations and recrystallizations.

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| **Education** |

* PG diploma in Chemical analysis and Quality management, University of Hyderabad (distance education), 2002-2004, Hyderabad, Telangana, India.
* Master of philosophy in Chemistry (2002), University of Hyderabad, Hyderabad, Telangana, India.
* Master of Science in Chemistry (1998), University of Hyderabad, Hyderabad, Telangana, India.
* Bachelor of Science in mathematics, physics, chemistry (1996), Osmania University, Hyderabad, Telangana, India.

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| **Personal details** |

* Age : 43yrs.
* Date of Birth: 30th August, 1976.
* Nationality: Indian.
* Languages : English, Hindi, Telugu.
* Marital status: Married
* Address: Plot no.1, H.No 3-46-56, Gruhalaxmi colony,Kakaguda, Secunderabad, Telangana, 500015

**DECLARATION:**

If given a chance to work in your organization I assure best of my services to the Organization and up to the expectations of the organization.

**SHIVA CHEMUDUPATI**