e-mail: karunasathya@gmail.com

Phone: 9963690992

Objective: Reinforce and extend my experience in the CRO, Discovery in Medicinal Chemistry by taking on new responsibilities and challenges in organization.

Highlights of qualifications and skills:

- Strong background in the theory and practice of classical and modern synthetic organic chemistry with a thorough understanding of modern synthetic methods and reaction mechanisms.
- Superior written, communication skills and presentations.
- Ability to manage multiple projects in parallel.
- Strategic, analytical thinker with strong business acumen.

I. Professional Experience:

- a) Pharmaffiliates Analytics & Synthetics Hyderabad; Senior Scientist, March 2019 to till date.
- b) Innovision Life Sciences Pvt. Ltd Hyderabad; Scientist, Jan 2018 to March 2019
- c) GVK Bio Science Pvt. Ltd Hyderabad; Senior Research Associate, Sep 2006 to Dec 2017 Contract Research Organization and Discovery work in Medicinal Chemistry division

Job responsibilities:

- ❖ Management and leadership of a group of 4 to 5 chemists.
- ❖ My role is responsible for client projects by route designing and synthesis of molecules as per specifications, independently and/ or through supervision of a team of chemists.
- **Set-up** and execute reactions for synthesis of target molecules:
 - Understand the project requirements and deliverables from supervisor/manager, as specified by the client
 - Understand the reaction protocol, Literature search and execution of projects with in the self-estimated and targeted timelines
 - Comprehend and discuss the MSDS (Material Safety Data Sheet) with supervisor/team members
 - Identify and mitigate any potential safety risk with the help of supervisor
 - Efficiently delegate work and monitor team members for effective planning, execution and delivery
 - Plan and execute reactions independently with proper reagents and equipment (glassware, stirrers, vacuum pumps etc.) maintaining specified conditions (temperature, pressure etc.), with optimum usage and minimum wastage
 - Ensure parallel execution of multiple reactions conducted both by self and the team
 - Monitor progress of the reactions by using standard methods and analytical techniques
 - Identify and execute appropriate workup and purification technique to produce an intermediate/ final compound of desired quality
 - Analyze analytical data, comprehend results and identify the issues
 - Troubleshoot as appropriate for successful execution with intimation to supervisor and guide juniors/team
 - Meet productivity benchmarks on number of reactions/ number of steps/ number of compounds/ quantity/ compound purity/ project timelines of self and team

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❖ Improve delivery efficiency and quality through project management

• Support project manager in finalizing the estimation of the project by identifying relevant literature and proposing appropriate synthetic routes

Assess potential risks on the project proposals

Ensure safety at work through enforcement of good laboratory practices.

- Follow safety protocols and guidelines in the labs
- Maintenance and usage of equipment/apparatus/instruments as per SOPs
- Guide team members/juniors on safety protocols and ensure compliance

Maintain records, data integrity and IP confidentiality

- Document reactions, research findings/ observations accurately in lab note books as per client requirements to ensure data integrity
- Maintain strict IP Confidentiality and adhere to all related policies
- Preparation of Weekly Reports, Final Reports, Weekly update etc.
- Identify and report non-compliance of LNB guidelines updated by junior team members

Ensure high morale and skill development of self and team

- Guiding a team of chemists to meet productivity/ quality targets
- Train & develop team members, regularly monitor their performance
- Improve knowledge of organic chemistry (particularly synthesis)/ Analytical techniques etc.
- ❖ Handling average 20-25 project per year.
- ❖ 5 chemists directly reporting to me.
- Create and sustain a high quality function which aims to continuously improve in competence, scientific excellence and innovation.
- Support to the Manager for new technology initiatives designed to increase efficiency and productivity. Develop effective interactions with other groups
- ❖ Interpretation of organic compounds by Mass (LC-MS & GC-MS). ¹HNMR. ¹³CNMR, IR & HPLC
- Carrying out efficient separation and purification of compounds by Preparative Thin-Layer Chromatography, Column Chromatography, High Vacuum Fractional Distillation, grace purification technique and Recrystalization etc.
- Updating the projects by preparing weekly reports and Final Reports., participating in Teleconferences with the client over project reviews and updates
- Direct Interaction with the clients regarding the project requirements and updates
- Planning and resources identification, giving project projections
- Coordination between various departments for smooth execution of the project
- Selection of non-infringing synthetic route by the thorough review of literature and patents.

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Delivering the target products by strict adherence to safety while using different hazardous chemicals.

• Writing reports, research articles, reviews, delivering talks in conferences/work-shop.

Achievements:

- ❖ Weekly status updates to clients by power point slides and telecons.
- * Responsible for providing documented controlled synthetic process for discovery molecules as requested by clients.
- Designing retro synthetic routes for target molecules and executing their synthesis for targets.
- Analyzing the problems (particularly impurities or by product structures determinations) during synthetic route and solving them independently.
- Several impurities/by products isolated and characterized with the help of AR&D support
- ❖ Maintaining safety practices, Internal Auditor for error free documentation, Lab maintenance, procurement of Chemicals in addition to the regular work.

II. Areas of Expertise

- Medicinal Chemistry
- Heterocyclic Chemistry
- Linear Synthesis
- Parallel Synthesis
- Library Synthesis
- Sterochemistry
- Organo-metallic Chemistry
- Synthesis of New active drug molecules
- New methodological work

III. Research Experience: Research Fellow, Doctoral Thesis

a) P.hD (2012-2012018): Jawaharlal Nehru Technological University Kakinada, Kakinada, East Godavari District, Andhra Pradesh, India-533 003 In the research group of Assistant Professor Dr.Naresh Kumar Katari.

Ph.D; Title: "Synthesis and Characterization of 1,4-dihyroquinazoline and quinazoline derivatives"



Research Advisor: Dr. Naresh Kumar Katari, Assistant Professor in Gitam University and Dr. Manda Ravi Prakash Reddy, Scientist-E in C-MET, Hyderabad, India.

b) Academic credentials:

- ❖ Ph.D (2012-2018), Synthetic Organic Chemistry, Assistant Professor Dr.Naresh Kumar Katari, Gitam University, Hyderabad.
- ❖ M. Sc. (2004-2006): Organic Chemistry, Andhra University, A.P, First division.

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- ❖ B. Sc. (2001-2004): Math's, Physics, Chemistry, Andhra University, A.P, Distinction.
- ❖ Board of Intermediate education (1990-2001): VEC Junior college, West Godavari District, A.P, Distinction.

IV. Awards:

- ❖ Five times received Research & Recognition in GVK Bio Sciences Pvt. Ltd during the year 2006-2017
- ❖ Awarded Pfizer appreciation (**GVK Bio Science**) in 2010.
- ❖ Awarded GSK Silver (GVK Bio Science) in 2016
- ❖ Awarded GSK Bronze (**GVK Bio Science**) in 2017

V. LIST OF PUBLICATIONS:

- 1. "Tandem One Pot (TOP) and efficient method for the palladium reagent-catalyzed cross-coupling of quinazoline thiols" **P Satya Karuna**, a R.V.V. Ramana Murthy, M.R.P. Reddy, Naresh Kumar Katari and Kummari Srinivas *Journal of Hetero Cyclic Chemistry* 2014, 49, 992-995.
- **2.** "Transition metal-promoted synthesis of 2-aryl/heteroaryl-thioquinazoline: C-S Bond formation by "Chan-Lam Cross-Coupling" Reaction" **Pulakhandam Satya Karuna**, a M.R.P. Reddy, and Naresh Kumar Kataric*. *Journal of Chemical Science* **2016**, *51*, **899-902**.
- **3**. "Microwave-Promoted Syntheses of *S*-Substituted Quinazoline Derivatives from 1,4-dihydroquinazoline-2-thiol" "**Pulakhandam Satya Karuna,** a M.R.P. Reddy, b and Naresh Kumar Kataric* *Letters in Drug Design & Discovery* 2017, *15*, 583-589.
- **4.** "Oxone mediated oxidation of 2-(aryl/alkyl thio) quinazolines: a green approach" **Pulakhandam Satya Karuna**^a, Siva Reddy Annem^b, Naresh Kumar Katari*^b and M.R.P. Reddy *Current Green Chemistry* **2018**, **5**, **3**, **108-113**.
- 5. "Synthesis of Novel Analogues of 2-Thioquinazoline" **Satya Karuna Pulakhandam**^a, Naresh Kumar Katari^{b,c}* and Sreekantha B. Jonnalagadda^c *Molecular Diversity* **2018**, *23*, **2**, **1-10**
- 6. "Preparation of linear frac concentration with different hydrocarbons like petrol, diesel, kerosene compatibility & breaker test by using oxidizer, breakers" R.V.V. Ramana Murthya, Subrahmannian P^a , Naresh Kumar Katari $^{b^*}$, **P. Satya Karuna** and M.R.P.Reddyc

Journal of Applied chemistry 2013, 2 (3), 605-613

7. "L-Arginine catalysed knoevenagel Condensation: An Unambiguous synthesis of cyanonitrophenylacetamide, benzimidazole acetonitrile & 3-indole substituted alkenes" K. Srinivas^{a*}, Naresh Kumar Katari^a, P. Satya Karuna^b and M.S.Surendrababu^c *Current organo catalysis* 2015, 44-50.

VI. Posters and Presentations

1. Poster: Tandem One Pot (TOP) and efficient method for the palladium reagent-catalyzed cross-coupling of quinazoline thiols. P Satya Karuna,^a R.V.V. Ramana Murthy,^b M.R.P. Reddy,^c Naresh Kumar Katari^d and Kummari Srinivas ^d. International Conference on "New Dimensions in Chemistry and Chemical Technologies Applications in Pharma Industry" (NDCT-2014). 23th-24th JUNE 2014 held at JNTU Hyderabad-500085, Telangana state, India.

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2. Talk: Microwave-Promoted Syntheses of S-Substituted Quinazoline Derivatives from 1,4-dihydroquinazoline-2-thiol. Pulakhandam Satya Karuna,¹ Naresh Kumar Katari,*² Rambabu Gundla,² and Manda Ravi Prakash Reddy³. National Seminar on "Shaping the future with Green Chemistry" (SFGC-14). 27-28th JUNE 2014 held at S.P.M.H.Kalasala, Machilipatnam, Krishna District, A.P, India.

- **3.** Talk: Copper catalysed synthesis of 2-aryl/heteryl-thioquinazoline: Cascade C-S Bond formation by "Chan-Lam Cross-Coupling" Reaction. **Pulakhandam Satya Karuna,** M.R.P. Reddy, and Naresh Kumar Kataric* National Seminar on "The Role of Natural Product Chemistry in Drug Discovery" (RNPCDD-14). 11-12th September 2014 held at Siddartha Auditorium, Vijayawada, A.P. India.
- **4. Poster:** Microwave-Promoted Syntheses of *S*-Substituted Quinazoline Derivatives from 1, 4-dihydroquinazoline-2-thiol. **Pulakhandam Satya Karuna**, ¹ Naresh Kumar Katari,* ² Rambabu Gundla, ² and Manda Ravi Prakash Reddy³. National conference on "Drug **Discovery and Development in Chemistry Applications in Pharma Industry**" (**DDDC-2015**) on September 14th-15th2015 held at Sri Venkateswara university, Tirupati-2, A.P state, India.
- **5. Talk:** An efficient and convenient protocol for the synthesis of *S*-substituted Sulfonyl quinazoline derivatives using oxidizing reagents. **Pulakhandam Satya Karuna**^a, Naresh Kumar Katari*^b and M.R.P. Reddy^{d.} National Seminar on "**New Aspects of Heterocycle Chemistry in Medchem and Chemical Biology**". 19-20th February 2015 held at R.B.V.R.R.Womens College, Narayanaguda, Hyderabad-500027, Telangana State, India
- 6. Poster: An efficient and convenient protocol for the synthesis of S-substituted sulfonyl quinazoline derivatives using oxidizing reagents P. Satya Karuna^a, Naresh Kumar Katari*^b and M.R.P. Reddy^c. National Seminar on "Current Research Trends and Developments in Organic Synthesis" (CRTADIOS-2015). 5th-6th October-2015 held at Aadikavi Nannaya University, Rajahmundry A.P state, India
- 7. Poster: Design and Novel synthesis of Quinazolinone and its Derivatives. P Satya Karuna^a, Naresh Kumar Katari *b, Choragudi Chandrasekhar and M.R.P. Reddy. International Conference on "International Congress on Recent Advances in Chemistry and Chemical Engineering" (NDCT-2016). 11th-13th JULY 2016 held at JNTU Hyderabad-500085, Telangana state, India.
- **8. Poster:** Design and novel synthesis of new Thioquinazoline analogous. **P Satya Karuna**^a, Naresh Kumar Katari *^b, Gundla Rambabu^b and M.R.P. Reddy^c. "National Symposium" (**CRSI-NSC 21-2017**). 13th-15th JULY 2017 held at IICT Hyderabad-500076, Telangana state, India
- **9. Poster:** Design and novel synthesis of new Thioquinazoline analogous. **P Satya Karuna**^a, Naresh Kumar Katari *^b, Gundla Rambabu^b and M.R.P. Reddy^c.

 "National Symposium" (**Materials in Healthcare-2018**). 6th-8th September 2018 held in Gitam University, Hyderabad Telangana state, India
- **10.** Talk: Design and Novel synthesis of Quinazolinone and its Derivatives. **P Satya Karuna**^a, Naresh Kumar Katari *^b, Choragudi Chandrasekhar ^a and M.R.P. Reddy. International Conference on "Trend setting Innovations in Chemical Sciences & Technology Nature Inspired Chemistry & Engineering" (TSCST-NICE-2016). 4th-6th October 2016 held at JNTU Hyderabad-500085, Telangana state, India.

• National-Work Shops

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1. One Day National Workshop on "Modern Trends in Drug Discovery and Development (MTDDD-16)" in Gitam University, Hyderabad. April 2nd 2016.

2. One Day National Workshop on "Big Data Applications in Drug Repurposing (BDADR- 17)" in Gitam University, Hyderabad. October 23rd 2017.

• Books Published

1. Research published in "LAP LAMBERT Academic Publishing" in Briv ibas gatv e 197, LV-1039, Riga, Latv ia, European Union in April 29th 2019

My hands on-experience and practical knowledge in the pharmaceutical industry will be well suited towards goals of the organization. I would like take this opportunity to discuss & implement how my skills and experience can help towards organization growth.

Thank you for your consideration.

Yours Sincerely,
Dr. Satya Karuna Pulakhandam