

KOMAL SANGU

M.Pharm, Medicinal chemist



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CAREER OBJECTIVE

To be in a vocation in a reckoned organization for implementing my technical and analytical knowledge towards betterment of organization and my own manoeuvrers.

WORK EXPERIENCE

Project Fellow

National Institute of Pharmaceutical Education and Research (NIPER-HYD)

06/2018 - 07/2019

Hyderabad, India

Roles

- Synthesis of small molecules from natural precursors based on oxidative dearomatization strategy, Methods development in organic synthesis, Isolation, characterization and Molecular docking studies of small molecules

Contact: Dr. T.D Neelima – Principal investigator

EDUCATION

PhD (Medicinal/ Pharmaceutical Chemistry)

CSIR-Indian Institute of Chemical Technology
Thesis submitted

M.S Pharm (Medicinal Chemistry)

National Institute of Pharmaceutical Education and Research (NIPER-Hyderabad)

CGPA:9.46

08/2017 - 06/2019

Hyderabad, India

Thesis title

- Oxidative dearomatization strategy for facile metal-free synthesis of vanillyl benzodiazepines

B-Pharmacy

Swami Ramanand Teerth Marathwada University (SRTMU)

percentage:79.95

08/2013 - 05/2017

Nanded, India

Thesis title

- Synthesis of privileged scaffold containing Phenoxazine and indole hybrids by using MnO₂ as oxidant from substrate 2, 5 dihydroxy acetophenone

Class XII

Yashwant Mahavidyalay

percentage:75.50

01/2012 - 03/2013

Nanded, India

Class X

Andhra samithi high school

percentage:88.36

06/2010 - 03/2011

Nanded, India

ACHIEVEMENTS

- Qualified in NIPER-phD-2019 with National rank-13
- Qualified in NIPER JEE-2017 with National rank- 309
- Qualified in GPAT-2017 with National rank- 460
- Qualified in M-CET-2013 with State rank -78

PUBLICATIONS

- Komal G. Sangu**, Saiprasad D. varakala, Vamshi Krishna E, Haridas B. Rode., Synthesis and evaluation of GR135486X derivatives as potent antibacterial agents against *Mycobacterium tuberculosis* *ChemistrySelect*. **2023**, 8, e202204186.
- Oluyori. A.P., Harini. T., **Komal G. Sangu**., Krishna. E.V., Jadav. S.S., Misra. S. and Rode, H.B., 2022. Synthesis and evaluation of novel almazole D analogs as anticancer agents. *Arch. Pharm.* **2022**, 355, 2200102.
- Kaul. G., Akhir. A., Shukla. M., **Komal G. Sangu**., Haridas B. Rode and Siddharth Chopra., Nitazoxanide potentiates linezolid against linezolid-resistant *Staphylococcus aureus* in vitro and in vivo. *J. Antimicrob. Chemother.* **2022**, 77, 2456-2460.
- Uttam B. Karale, Dattatraya Babar, Akash U. Shinde, **Komal G. Sangu**, Siva Krishna V, Vamshi Krishna E, Haridas B. Rode., 3-Aryl substituted imidazo[1,2-a]pyridines as antituberculosis agents. *Arch. Pharm.* **2021**, 354, 2000419.
- Komal G. Sangu**., Akash U. Shinde, Siddharth Chopra, Haridas B. Rode., Evading Antimicrobial Resistance using Boron containing therapeutics. *Fut. Med. Chem.* **2020**, 13, 229-232.
- Komal G. Sangu**, Naveen Kotla, Dr. T. D. Neelima. Oxidative dearomatization strategy for facile metal-free synthesis of vanillyl benzodiazepines. *chemistrySelect*, **2020**.

PROJECTS

- Synthesis of privileged scaffold containing Phenoxazine and indole hybrids by using MnO₂ as oxidant from substrate 2, 5 dihydroxy acetophenone (08/2016 - 04/2017)
- Oxidative dearomatization strategy for facile metal-free synthesis of vanillyl benzodiazepines (06/2018 - 06/2019)
- Development of antiviral drugs.
- Development of RL-348 effective against *S. aureus*.
- Development of candidates effective against drug resistant tuberculosis.

WORKSHOP & CONFERENCES

- Participated in poster presentation in the event of "Euphoria creative competition" held at SRTMU, Nanded
- Attended a two-day National Seminar on "Emerging Trends in Drug Discovery and Drug Development" held at Nashik
- Attended a workshop on Intellectual Property Management
- Completed the course of three modules on "Drug Discovery and Development (D3C3)" held at NIPER, Hyderabad
- Participated in "Spectral Workshop" conducted at NIPER, Hyderabad
- Participated in Drug Discovery by BITS-GOA

CERTIFICATES & AWARDS

- Pharma Industrial Training (06/2017 – 07/2017), Organized by Cheminor laboratories
- Awarded fellowship (2017-2019) by Ministry of Human Resource Development (MHRD), Government of India.
- Awarded by ICMR-SRF fellowship.
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SKILLS & ABILITIES

- Capable of interpreting data of various analytical techniques like NMR, Mass Spectrometry, IR and UV-Visible Spectrophotometers
- Well versed with Computer Applications (ChemDraw, MS Office, MestReNova, Chemsketch NMRProcessor)
- Handling experience with instruments like Flash chromatography, tablet hardness tester, roche friabilator, dissolution apparatus, rotary evaporator and analytical instruments like UV-Vis spectrophotometer, FT-IR.
- Capable of synthesizing and characterizing small drug molecules, Natural products.

LANGUAGES

- English
- Hindi
- Marathi
- Telugu

