

Dr. Devarapaga Madhu

I am hard-working, enthusiastic & high energy-driven professional with a proven track record in targeting assignments in Pharmaceutical industry. I am accustomed to working in a challenging and fast-paced environment, particularly when dealing with multiple projects and priorities at the same time (Open to Travel).

Profile Summary

- A goal driven professional offering around 1.4 years of pooled experience (post Ph.D) in **Contract research** and **Intermediates Manufacturing**, with notable success.
- **Process development, process management and troubleshooting, process robustness improvement and quality systems**
- Proven record in **research & development and commercialization of product**
- Expert in developing, conducting, and/or managing **the process development of current and new synthetic/process pathways** under minimal supervision
- Ensured adherence to **all regulatory requirements, and related safety, health and environmental procedures**, policies and practices
- Capability to **deliver dramatic breakthrough improvements towards operational excellence** by leading organization to adopt research improvement techniques

Education & Credentials

2017-19 **National Post-Doctoral Fellow** from **CSIR- IICT, Hyderabad**
2017 **Ph.D.** from **Indian Institute of Technology (IIT) Varanasi**, Hyderabad
2012 **M.Sc** in **Organic Chemistry** from **Banaras Hindu University (Central University), Varanasi. India**
2009 **Graduation** from Govt. Degree College Wanaparthy, Osmania University

Professional Experience (Pharmaceutical Industry Experience)

Oct'2020 to Jan'2022, Photon Life Sciences, R&D, Hyderabad.

Research Areas:

- Synthesis of novel compounds and evaluation of their *in vitro* anticancer activity and antioxidant activity.
- Chemo-enzymatic synthesis of novel lipids and their derivatives
- Bioorganic synthesis, characterization and evaluation of a natural phenolic lipid.
- Synthesis of oleochemicals for surfactant, nutraceutical and personal care.
- Development of heterogeneous catalysts for the synthesis of fatty acid methyl esters.
- Develop unconventional oil based biolubricant base stocks with different functionalities such as Epoxy, acyloxy and polyol esters.

Research

July'14-Oct'17 **Ph.D – Indian Institute of Technology (IIT) Varanasi.**

- Title: "*Synthesis of biodiesel using indigenous feedstocks and effect of co-solvent on biodiesel yield*"

Awards & Recognition

- GATE (All India Rank 202)
- CSIR-NET
- National Post-Doctoral Fellow SERB (DST)



Hyderabad-500076, Telangana



+91-9666288861



devarapagamadhu4@gmail.com

Key Impact Areas

Process Development (APIs & Intermediates)

Technology Transfer

Research & Development

Production Troubleshoot

Optimization Study

Career Timeline

- 2011-12** M.Sc. (Organic chemistry project): *Chemical investigation of medicinal plant (Plumbago Zeylanica)*. (B.H. U. Varanasi)
- 2012-14** Worked in CSIR Sponsored Project:: *Chemical and enzymatic reactions of glycerol* (IIT Varanasi.)

Seminars

- 2nd Second International Conference on Science and Technology (ICMST-2016), June 5th-8th, 2016, Department of Physics, ST Thomas College Kottayam, India, (Oral Presentation).
- National Symposium on Nanomaterials & Sustainable Synthetic Strategies, March 21st-22nd, 2015, Department of Chemistry, BHU, Varanasi, India, (Participation).

Personal Details

Languages Known: English, Hindi, Telugu
Address : Plot No: 1-21-31/A, V.S.T. Colony,
Hyderabad-500076, Telangana

Publications (16 Papers were Published in reputed International Journals)

- Venkateshwarlu Kontham, BhavyaIppakayala, *Devarapaga Madhu. *Arabian Journal of Chemistry*, Volume, 2021, 14, 103163. (Impact Factor: 5.165).
- Venkateshwarlu Kontham, Kashif R. Ansari, Korlipara V. Padmaja, *Devarapaga Madhu. *Industrial Crops & Products* 2021, 159, 113061. (Impact Factor: 5.645).
- V. Kontham, K. V. Padmaja, *Devarapaga Madhu, *Journal of Saudi Chemical Society* 2020, 24, 742–753. (Impact Factor: 3.932).
- V. Kontham, K. V. Padmaja, *Devarapaga Madhu, *Journal of Saudi Chemical Society* 2020, 24, 942–954. (Impact Factor: 3.932).
- Venkateshwarlu Kontham, Korlipara V. Padmaja, and *Devarapaga Madhu. *Petroleum Chemistry*, 2020, 60, 1309-1316. (Impact Factor: 1.029).

2014-17 Worked as Ph.D. Research Scholar:: *Synthesis of biodiesel using indigenous feedstocks and effect of co-solvent on biodiesel yield* (IIT Varanasi.)

2017-19 Worked as Principal Investigator in SERB-NPDF: *Synthesis and characterization of biodiesel as well as bio-lubricants from common Indian.* (CSIR-IICT, HYD.)

2020-22 Working in R&D: Contract R&D, synthesis of Pharmaceutical intermediates and "scale up", process development and manufacturing of intermediates. APIs and also reference standards. (Photon Life Sciences, Hyd.)

Soft Skills

Change Agent	<div></div>
Collaborator	<div></div>
Communicator	<div></div>
Planner	<div></div>
Thinker	<div></div>
Innovator	<div></div>

Technical Skills

Synthetic Organic Chemistry,

Spectroscopy: ¹H NMR, ¹³C-NMR, Mass, IR, LCMS, GCMS, XRD, TGA, DSC, PSD, Scifinder, Reaxys. Chem Draw, Chem Window