

## Bio-Data

### **Dr. Mangilal Chouhan**

**(M. Pharm., Ph.D, Medicinal Chemistry)**

**Assistant Professor**

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### Research Impact

(Citation Indices by Google Scholar)

Total Citation – **493**; h-index – **15**; i10 index – **15**

➤ Research Area:

**Medicinal Chemistry:** Design, synthesis and evaluation of novel bio-active scaffolds against communicable, non-communicable and neglected disease

**Process Development:** Greener process for bioactive molecules

**Asymmetric Synthesis:** Synthesis of bioactive natural product, amino acid derivatives and chiral building blocks.

➤ Education:

**2008 – 2013**

National Institute of Pharmaceutical Education and Research (**NIPER**); Mohali, Punjab, India

Doctor of Philosophy (**Ph. D**)

Subject: Medicinal Chemistry

**Title:** “Novel Strategies for Efficient Synthesis of Nitrogen/Oxygen Containing Heterocycles and Application for the Synthesis of a Naturally Occurring Oxycneolignan”

**2004 – 2007**

Institute of Chemical Technology (ICT); Mumbai University, Mumbai, Maharashtra, India

Master of Pharmacy (**M. Pharm.**); 1<sup>st</sup> Class

Subject: Medicinal Chemistry

**Title:** Studies in improvement of antimicrobial “Hits”

**1999 –2002**

Department of Pharmaceutical Sciences, Mohanlal Sukhadia University (MLSU); Udaipur, Rajasthan, India

Bachelor of Pharmacy (**B. Pharm.**); 1<sup>st</sup> Class

Subject: Pharmaceutical Sciences

➤ Professional Experiences:

**2014 – Present**

Designation: Assistant Professor

Department of Pharmaceutical Sciences, Mohanlal Sukhadia University (MLSU),

Udaipur, Rajasthan, India

## 2013-2014

Designation: Research Associate & Scientist-I  
Piramal Discovery Solution, Ahmedabad, India

## 2006 – 2008

Designation: Research Associate & Junior Research Scientist  
Syngenta Bioscience Pvt. Ltd; Corlim-Illhas, Goa, India

### ➤ Research Project:

- UGC (BSR) Start-Up (Year: 2016-18; Grant 6.0 lacs ; Status: Completed)
- DST-SERB, New Delhi: (Year: 2018-21; Grant 35.51 lacs ; Status: Completed)

### ➤ Research Expertise in:

- Synthesis of individual small molecular libraries of heterocyclic scaffold such as azaindoles, isoquinolones, imidazole, functionalization of pyrroles, total synthesis of natural pyrroloindoloquinazoline alkaloid etc.
- Asymmetric synthesis of lignins, oxycneolignans and other natural products.
- Hands on preparation, handling and synthesis of organo-metallic compounds
- Reactions of milligram to multi-gram scale and compound isolation by normal and flash chromatography techniques.
- Analysis and structure elucidation of compounds through various spectroscopic techniques such as <sup>1</sup>H & <sup>13</sup>C-NMR techniques, Mass spectroscopy (LCMS/GCMS/MALDI-TOF-TOF), UV, IR, Chiral HPLC and GC etc.

### ➤ Research Outcomes:

- **Research Publications:** International: 17; National: 02

**Link:** <https://scholar.google.co.in/citations?user=RTxA1twAAAAJ&hl=en>

1. S. Puri, T. T. Yadav, **M. Chouhan**, K. Kumar, Synthetic and Clinical Perspectives of EVOTAZ: An Overview. *Min, Rev. Med. Chem.*, 2023, <https://doi.org/10.2174/1389557523666230707151553> .
2. S. Goyal, A. pal, **M. Chouhan**, M. Gangar, S. Sarak, V. A. Nair A highly efficient stereoselective synthesis of  $\beta$ -lactams, *Tet. Lett.* **2017**, 58, 346. (IF: 2.26)
3. M. Gangar, M. Chouhan, S. Goyal, M. Harikrishnan, R. Chandran, A. Ittuveetil, V. A. Nair, Asymmetric glycolate alkylation approach towards total synthesis of 8-O.6' and 8-O.4'-neolignans, *Tet. Lett.* **2016**, 57, 5931. (IF: 2.26)
4. K. Kumar, D. Konar, S. Goyal, M. Gangar, **M. Chouhan**, R.K. Rawal, V.A. Nair, Water Promoted Regiospecific Azidolysis and Copper Catalysed Azide-Alkyne Cycloaddition: One-Pot Synthesis of 3-Hydroxy-1-alkyl-3-[(4-aryl/alkyl-1H-1, 2, 3-triazol-1-yl) methyl] indolin-2-ones, *J. Org. Chem.* **2016**, 81, 9757. (IF: 4.75)
5. K. Kumar, D. Konar, S. Goyal, M. Gangar, **M. Chouhan**, R.K. Rawal, V.A. Nair, AlCl<sub>3</sub>/Cyclohexane Mediated Electrophilic Activation of Isothiocyanates: An Efficient Synthesis of Thioamides, *ChemistrySelect*, **2016**, 1, 3228. (IF: 1.72)
6. S. Goyal, B. Patel, R. Sharma, **M. Chouhan**, K. Kumar, M. Gangar, V.A. Nair, An efficient strategy for the synthesis of syn 1, 3-diols via iterative acetate aldol reactions and synthesis of atorvastatin lactone, *Tet. Lett.* **2015**, 56, 5409. (IF: 2.26)
7. **M. Chouhan**, K. R. Senwar, K. Kumar, R. Sharma, V. A. Nair, Catalytic C–H Activation of Arylacetylenes: A Fast Assembly of 3-(Arylethynyl)-3-hydroxyindolin-2-ones Using CuI/DBU, *Synthesis* **2014**, 46, 195. (IF: 2.87)

8. **M. Chouhan**, A. Pal, R. Sharma, V. A. Nair, Quinine as an organocatalytic dual activator for the diastereoselective synthesis of spiro-epoxyoxindoles, *Tetrahedron Lett.* **2013**, *54*, 7119. (IF: 2.26)
9. G. L. Khatik, R. Sharma, V. Kumar, **M. Chouhan**, V. A. Nair, Stereoselective synthesis of (*S*)-dapoxetine: A chiral auxiliary mediated approach, *Tetrahedron Lett.* **2013**, *54*, 5991. (IF: 2.26)
10. D. Gahtory, **M. Chouhan**, R. Sharma and V.A. Nair, Total Synthesis of a Pyrroloindoloquinazoline Alkaloid, *Org. Lett.* **2013**, *15*, 3942. (IF: 6.56)
11. **M. Chouhan**, K. Kumar, R. Sharma, V. Grover and V. A. Nair, NiCl<sub>2</sub>.6H<sub>2</sub>O/NaBH<sub>4</sub> in methanol: A mild and efficient strategy for chemoselective deallylation/debenzylation of aryl ethers, *Tetrahedron Lett.* **2013**, *54*, 4540. (IF: 2.26)
12. R. Sharma, K. Kumar, **M. Chouhan**, V. Grover and V. A. Nair, Lithium hydroxide mediated synthesis of 3,4-disubstituted pyrroles, *RSC Adv.* **2013**, *3*, 14521. (IF: 3.29)
13. **M. Chouhan**, R. Sharma and V. A. Nair, Stereoregulations of Pyrimidinone Based Chiral Auxiliary in Aldol and Alkylation Reactions: A Convenient Route to Oxycneolignans, *Org. Lett.* **2012**, *14*, 5672. (IF: 6.56)
14. **M. Chouhan**, K. R. Senwar; R. Sharma, V. Grover and V. A. Nair, Regiospecific epoxide opening: A facile approach for the synthesis of 3-hydroxy-3-aminomethylindolin-2-one derivatives, *Green Chem.* **2011**, *13*, 2553. (IF: 9.40)
15. **M. Chouhan**, R. Sharma and V. A. Nair, Cp<sub>2</sub>ZrCl<sub>2</sub> Induced Reformatsky and Barbier Reactions on Isatins: An Efficient Synthesis of 3-Substituted-3-hydroxyindolin-2-ones, *Appl. Organometal. Chem.* **2011**, *25*, 470. (IF: 3.26)
16. R. Sharma, **M. Chouhan**, D. Sood and V.A. Nair, An efficient one-pot synthesis of 2-benzylpyrroles and 3-benzylindoles, *Appl. Organometal. Chem.* **2011**, *25*, 305. (IF: 3.26)
17. R. Sharma, **M. Chouhan** and V.A. Nair, A novel one-pot synthesis of 2-benzoylpyrroles from benzaldehydes, *Tetrahedron Lett.* **2010**, *51*, 2039. (IF: 2.26)

- **Conferences Attended/Presentation:** International: 04; National: 07

- **Patents:** International: 01 ; National: 03

- **Books: 03 & Book Chapters: 01**

➤ **Awards & Honors:**

- GATE qualified in Pharmaceutical Sciences
- Recipient of Scholarship from AICTE during Master program
- Recipient of JRF and SRF from NIPER Mohali during Doctoral research Program