

Curriculum Vitae

Ganesh Rajaram Jadhav Ph.D.

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PROFESSIONAL EXPERIENCE

Lupin Pharma Limited

December 2009 – October 2022

Pune (M.S.), India
Sr. Research Scientist (Sr. Manager)
NDDD (New Drug Discovery and Development)

Neuland Laboratories limited

February 2009 – December 2009

Hyderabad, (A.P), India
Research Scientist (Dy. Manager)
Contract Research Organization (CRO)

Wockhardt Research Centre

August 2003 – January 2009

Aurangabad, (M.S.), India
Research Scientist
NDDD (New Drug Discovery and Development)

Suven Life Sciences Ltd.

Feb 2003- August 2003

Hyderabad, India
Research Associate

Orchid Chemical and Pharmaceutical Ltd.

December 2001 – January 2003

Aurangabad, Maharashtra, India.
Process Development Department (PDD)

Harman Finochem Limited

January 2000 – December 2001

Aurangabad, Maharashtra, India.
Process Development Department (PDD)

ACADEMIC QUALIFICATION

Ph D: July-2004 – May 2010, organic chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India. The title of the thesis is "**Synthesis, Characterization and biological Screening of Some Novel Benzimidazole Derivatives**".

M. Sc: May 1997- June 1999, organic chemistry (**Ist class**), P.G. School of Biological Studies, Ahmednagar College, Ahmednagar, Affiliated to Pune University

B. Sc: May 1994- May 1997, organic chemistry (**Ist class distinction**), P.G. School of Biological Studies, Ahmednagar College, Ahmednagar, Affiliated to Pune University.

PhD Work Review: Title: "Synthesis, characterization and biological screening of some novel benzimidazole derivatives"

Synthesized different benzimidazole derivatives containing various heterocycles like [1,2,3]-triazole, [1,2,4]-triazole, [1,2,4]-oxadiazole, tetrazole etc. and screened the novel derivatives for anti-tuberculosis (MABA assay) and anti-bacterial activity.

Some of the [1,2,3]-triazole and [1,2,4]-triazole containing benzimidazole derivatives is showing the promising antibacterial and antituberculosis activity

PROJECTS:

Ph.D Thesis:

- Discovered novel benzimidazole derivatives containing various heterocycles like [1,2,4]-triazole, [1,2,4]-oxadiazole, [1,2,3]-triazole which are having broad biological applications in medicinal chemistry.
- Discovered novel methodologies for the synthesis of benzimidazole derivatives using ammonium metavanadate, 1-heptanesulfonic acid sodium salt which is useful in chemistry.
- Demonstrated various reactions like diazotization reaction, catalytic reactions, catalytic reduction, saponification, Wittig reactions, alkylation reaction, click reaction etc.
- Various oxidizing agents like Dess-Martin periodinane, Kim Corey oxidation etc used.

PATENTS AND PUBLICATIONS

1. Heteroaryl derivatives of PARP inhibitors (US/2020/101068)
2. Macrocyclic compounds as a STING Agonists and methods and uses thereof (US/2022/0289763)
3. WO/2008/023248 of "Novel Macrolides and Ketolides having Antibacterial Activity".
4. Discovery of isoquinolinone and naphthyridinone- based inhibitors of poly(ADP-ribose) polymerase-1 (PARP1) as anticancer agents: SAR and preclinical characterization. Lupin Ltd. Bioorganic and Medicinal Chemistry, 2020, 28 (24), 115819.
5. Discovery of Novel, Potent, Brain-permeable, and Orally Efficacious Positive Allosteric Modulator of $\alpha 7$ Nicotinic Acetylcholine Receptor[4-(5-(4-Chlorophenyl)-4-methyl-2-propionylthiophen-3-yl) benzenesulfonamide]: SAR and preclinical Characterization. Lupin Limited, Journal of Medicinal Chemistry, 2020, 63-(3), 944-960.
6. Synthesis and characterization of some novel 2-{2-[1-(3-substituted-phenyl)-1*H*-[1,2,3]-triazol-4-yl-ethyl]-1-substituted-1*H*-benzo[*d*]imidazole derivatives. **Ganesh R. Jadhav**, Mohammad U. Shaikh, Murlidhar S. Shingare, Charansingh H. Gill. *J. Het. Chem.* 2008, 45 (1), 1287.
7. Clubbed [1,2,3]-triazole by fluorine benzimidazole: A novel approach to H37Rv inhibitors as a potential treatment for tuberculosis. **Ganesh R. Jadhav**, Mohammad U. Shaikh, Rajesh P. Kale, Anant R. Ghawalkar, Deepak R. Nagargoje, Mahendra R. Shiradkar, Charansingh H. Gill. *Bioorg. Med. Chem. Lett.* 2008, 16, 6244 – 6247

8. SAR study of clubbed [1,2,4]-triazolyl with fluorobenzimidazoles as antimicrobial and anti-tuberculosis Agents.
Ganesh R. Jadhav, Mohammad U. Shaikh, Rajesh P. Kale, Mahendra R. Shiradkar, Charansingh H. Gill. *Eur. J. Med. Chem.* 2009, 44, 2930 – 2935.
9. Eco-friendly and facile synthesis of 2-substituted-1H-imidazol[4,5-b] pyridine in aqueous medium by air oxidation.
Rajesh P. Kale, Mohammad U. Shaikh, **Ganesh R. Jadhav**, Charansingh H. Gill. *Tet. Lett.* 2009,50,1780.
10. Ammonium metavanadate: a novel catalyst for the synthesis of 2-substituted-aryl benzimidazoles.
Ganesh R. Jadhav, Mohammad U. Shaikh, Rajesh P. Kale, Charansingh H. Gill. *Chinese Chem. Lett.* 2009, 20(3), 292-295.
11. 1-Heptanesulfonic acid sodium salt: one pot efficient synthesis of 2-aryl-1-arylmethyl-1H-1, 3-benzo[d]imidazoles.
Ganesh R. Jadhav, Mohammad U. Shaikh, Rajesh P. Kale, Charansingh H. Gill. *Chinese Chem. Lett.* 2009, 20(5), 535-538.
12. Synthesis characterization and antimicrobial activities of clubbed [1,2,4] oxadiazoles with fluorobenzimidazoles.
Ganesh R. Jadhav, Mohammad U. Shaikh, Rajesh P. Kale, Anant R. Ghawalkar, Charansingh H. Gill. *J. Het. Chem.* 2009, 45 (6), 910.
13. Synthesis of fluorine containing pyrazole imines and their cyclization into thiazolidinones and azetidinones.
Nagargoje D. R., Ghawalkar A. R., **Jadhav G. R.**, Shaikh M. U., Shingare M. S., Gill C. H. *Ind. J. Het. Chem.* 2008, 18(1), 53-56.
14. Synthesis of new analogues of fluorobenzimidazoles as an antimicrobial agent. **Ganesh R. Jadhav**, Mohammad U. Shaikh, Rajesh P. Kale, Charansingh H. Gill. *Ind. J. Het. Chem.* 2009, 18, 419-420.
15. Ammonium metavanadate: A mild and efficient catalyst for synthesis of coumarines Mandhane, P. G.; Joshi, R. S.; Ghawalkar, A. R.; **Jadhav, G. R.**; Gill, C. H.; *Bulletin Kor. Chem. Soc.* 2009, 30, 2969.

INDUSTRIAL RESEARCH WORK:

Worked on projects in oncology, auto immune diseases and related areas. Present job involves designing molecules and their synthetic scheme for new chemical entities required for screening purpose. Also synthesized in milligram to multigram scale as per requirement. Also involved in patent drafting, analyzing for novelty purpose.

I worked in the pharmaceutical industries since last twenty two years. During this, I worked mainly in New Drug Discovery and Development (NDDD) for more than twenty years and mainly worked on sugar chemistry, antibacterial like Macrolide and Ketolide Chemistry, Fluoroquinone, Oxazolidinone and 7 nAChRs Plays an important role in cognitive and sensory getting processes for PAM-II activity and PARP INHIBITORS, STING (CDN and NON-CDN inhibitor), ATAD-2 inhibitor as an anticancer activity.

I worked in Process research and development gram to kilo scale in pilot plant of active pharmaceutical ingredients for 4 yrs (APIs) like Glibencalamide (Anti

tuberculosis), Fluconazole (Antifungal), Biotin (Vit-H). Owing to the secrecy policy, the details cannot be given.

PROFESSIONAL EXPERTISE

- Good communication skills, good imagination and creativity in writing the projects, creating new methodologies for organic synthesis.
- Expertise in design and execute multi-step synthesis of targeted bioactive molecules.
- Dexterous in development of novel organic synthetic methodologies.
- Endured in purification of products in minor amounts by advanced techniques.
- Familiar with Chromatogram, HPLC and related chromatographic techniques.
- Adept in analyzing spectrographic data like ^1H NMR and 2D NMR Techniques like ^{13}C , DEPT, ^1H - ^1H NOESY, NMR, IR and MS etc.
- Worked on optical resolution of molecules by salt formation with different resolving agents or by crystallization of diastereomers during the synthesis of lead molecules.
- Able to identify experimental problems and resolve them independently.
- Capable of both collaborative and independent research.
- Working knowledge in most of the chemical databases, E-notebook and basics in computers.
- Mentored a team of 5-6 chemists to spearhead various programs.
- Multifaceted expertise in the field of Process, Contract Research & Novel Drug Discovery with Synthetic Medicinal Chemistry background.
- Inscribed daily & weekly reports, presented updates and handled teleconferences.
- Strived to improve pace, quality, and cost of production to meet customer satisfaction.
- Well aware of different training programmes related with Lab-Work, safety at workplace.

AWARDS AND HONORS

- **Ph D. Degree award**, May 2010 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.), India.
- Awarded cash prize and promotion twice for demonstrating efficiency and excellent time management in Wockhardt.

PERSONAL DATA

Sex: Male
Marital status: Married

Nationality: Indian.
Date of Birth: 10th June 1977.

POSTER / PAPER PRESENTATION

- Attained International Symposium on "Building Bridges, Forging Bonds for 21st century organic Chemistry and Chemical Biology" to be held at National Chemical Laboratory (NCL), Pune, Maharashtra, India.
 - A poster presented on "Synthesis of Novel 1-(4-methyl-1-Phenyl)-1H-[1,2,3] triazole-2(3-Fluorophenyl)-1H-benzimidazole derivatives." in the 11th ISCBC-2007, International Conference on Advances in Drug Discovery Research, Aurangabad, Maharashtra, India.
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REFERENCES

1. Dr. Vijay Khanna (Ret.)
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