

Biodata

Mr. MAHENDRA BANKAT BHALERAO

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Academic Record

- Doctor of Philosophy** **Synthetic Organic Chemistry**, Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India. Thesis Title- “**A Search for New Five/Six Membered biodynamic Heterocycles Bearing Sulphur and Nitrogen as Heteroatoms**”. (January, 2013 to till date)
- M.Sc. Chemistry** Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra, India (71.33%). (**Jun 2008-July 2010**)
- B.Sc. Chemistry** (Physics and Mathematics as subsidiaries), Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India (65%). (**Jun 2004-Jun 2007**)

Awards and Fellowships

- Best poster presentation** Received in National Conference topic entitled, “Recent Challenges in Advanced Material and Green Chemistry (*RCAMGC-2015*)” organized by Department of Chemistry Dr. Babasaheb Ambedkar Marathwada University, Sub-Campus, Osmanabad. (**December, 2015**)
- Senior Research Fellowship** from the Council of Scientific and Industrial Research (CSIR), New Delhi, India (www.csir.res.in). (**October, 2013**)
- Junior Research Fellowship** from the Council of Scientific and Industrial Research (CSIR), New Delhi, India (www.csir.res.in). (**Sept., 2011 to Sept., 2013**)
- NET-JRF** from the Council of Scientific and Industrial Research (CSIR), New Delhi, India (www.csir.res.in). (**December, 2010**)
- GATE** Conducted by the Indian Institute of Technology (IIT), India. (**February, 2011**)

Courses

- Maharashtra state certificate in Information technology held by Maharashtra Knowledge Corporation limited, passed with 84%. (2007)
- Six month course in Environmental studies. (2004-2005)

Teaching Experience

- Four years of experience as contributory teacher in the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- One year of teaching experience at under graduate level in the Shrikrishna Mahavidyalaya, Gunjoti, Ta. Omerga, Dist. Osmanabad. (Academic year, 2018-2019)
- Experience in conducting summer research project work of M.Sc. students.
- Regular seminars given at B.Sc. & M.Sc. level.

Research Contribution

Research Interest

- Heterocyclic Synthesis and their biological evaluation.

Research Experience

Doctoral Research (*Synthetic Organic Chemistry and Medicinal Chemistry*)

“A Search for New Five/Six Membered biodynamic Heterocycles Bearing Sulphur and Nitrogen as Heteroatoms”

- Design, synthesis, and development of new synthetic methodology for novel substituted hydrazones, 2,4-thiazolidinediones, and pyrimidines.
- Design and synthesis of novel substituted pyrazole aldehydes, benzimidazoles, 4-thiazolidinones, pyrazolines, oxazolines, and pyrimidines.

M.Sc. Research Experience (*Summer Project*)

Worked on a research project topic entitled, “Rapid Synthesis of 5-Arylidine 2,4-thiazolidinediones Catalyzed by ionic liquid under Microwave Irradiation”.

Research Papers

1. New bithiazolyl hydrazones: novel synthesis, characterization and antitubercular evaluation (Accepted, *Bioorg. Med. Chem. Lett.*, **2017**, *15*(2), 288-294)
Bhalerao MB, Dhumal ST, Deshmukh AR, Nawale LU, Khedkar V, Sarkar D, Mane RA

2. Design, Synthesis and Antidiabetic Evaluation of New Cyanoquinoloxo Benzylidenyl 2,4-Thiazolidinediones (Accepted, *Chemistry & Biology Interface*, **2016**, 6, 4, 189-197)
Deshmukh AR, Dhupal ST, **Bhalerao MB**, Mishra A, Srivastava AK, Mane RA
3. Syntheses of biodynamic heterocycles: Baker's yeast assisted cyclocondensations of organic nucleophiles and phenacyl chlorides (Accepted, *Res Chem Intermed*, **2015**, 41, 8955)
Khillare LD, Pratap UR, Bhosle MR, Dhupal ST, **Bhalerao MB**, Mane RA
4. Synthesis of New Thiazolyl Coupled Pyrazoles Bearing 2,4-Thiazolidinedionyl Pharmacophore and Their Anti-Inflammatory and Antibacterial Evaluation (Accepted, *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*, **2017**, 16, 46-57(12))
Khillare LD, Bhosle MR, **Bhalerao MB**, Kharat K, Mane RA
5. Environmentally Benign Synthesis of 2-aryl Benzimidazoles and their Antibacterial Screening (Accepted, *Der Pharma Chemica*, **2017**, 9(14):115-118)
Devkate CG, Warad KD, **Bhalerao MB**, Gaikwad DD, Siddique MIM
6. Green and Efficient Synthesis of Benzimidazole Derivatives and their Antibacterial Screening (Accepted, *Journal of Chemical and Pharmaceutical Research*, **2017**, 9(8):209-213)
Devkate CG, Warad KD, **Bhalerao MB**, Gaikwad DD, Siddique MIM
7. Ionic Liquid Mediated Rapid Synthesis of 3-Substituted Pyrazoles (Accepted, *Journal of Chemical and Pharmaceutical Research*, **2017**, 9(3):401-405)
Devkate CG, Warad KD, **Bhalerao MB**, Gaikwad DD, Siddique MIM

Research Papers and Posters Presented in International & National Conferences

1. Paper presented in Pre Science Congress-2014 Conference on Science and Technology for Human Development topic entitled, "Synthesis and anti-inflammatory evaluation of 5-arylidine-3-[(2-(methylsulphonylamino) thiazole-4-yl) methyl] thiazolidine-2,4-diones", in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
2. Poster presented in 19th ISCB International Conference poster topic entitled, "Synthesis and antihyperglycemic evaluation of new 2-imino-4-thiazolidinone-5-carboxylic acids having pyrazolyl pharmacophore", jointly organized by Indian Society of Chemists and Biologists and Department of Chemistry, Mohanlal Sukhadia University, Udaipur. (Abstract Book Page No. 257, March-2013)
3. Poster presented in GOLD-CT International Conference poster topic entitled, "Global Opportunities for Latest Developments in Chemistry and Technology" organized by School of Chemical Sciences, North Maharashtra University, Jalgaon. (Feb. 2014)
4. Poster presented in 20th ISCB International Conference poster topic entitled, "Multistep Convenient Route for the Synthesis of New N-phenyl-3-(2'-phenyl-4'-methyl thiazole-5'-yl)-4-Tetrazolyl pyrazoles as Anti-inflammatory agents", organized by Department of Chemistry, University of Delhi. (Abstract Book Page No.- 237, PP-146, March-2014)
5. Poster presented in 17th CRSI National Symposium in Chemistry held at CSIR-National Chemical Laboratory, Pune. (February, 2015)

6. Poster presented in RCAMGC-2015 National Conference, poster topic entitled, "Synthesis and Antitubercular Screening of New Bithiazolyl Hydrazones" organized by Department of Chemistry Dr. Babasaheb Ambedkar Marathwada University, Sub-Campus, Osmanabad.

Conferences and Symposia Attended

1. One day seminar attended topic entitled, "Futuristic Plans in Drugs and analysis", sponsored by All India Council for technical education New Delhi (IIPC Cell) taken by Govt. Pharmacy College, Aurangabad. (March-2012)
2. National Conference attended topic entitled, "Recent Trends in Chemistry", Sponsored by UGC, New Delhi (WRO, Pune) organized by Shivaji Arts, Commerce and Science College Kannad, Aurangabad. (Sept-2012)
3. One day seminar attended topic entitled, "Global Regulatory Requirements for Drugs and Pharmaceuticals", sponsored by All India Council for technical education New Delhi (IIPC Cell) taken by Govt. Pharmacy College, Aurangabad. (Oct-2012)
4. One day seminar attended topic entitled, "Green Chemistry as an Environmentally Benign Chemistry", Sponsored by UGC, New Delhi (WRO, Pune) organized by Ramkrishna Paramhansa Mahavidyalaya, Osmanabad. (August-2013)
5. One day seminar attended topic entitled, "New Development in Microwave Technology", organized by Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, in association with Analytical Instruments Consortium, Kolkata.
6. National Conference attended topic entitled, "Role of Chemistry in Eco-friendly Organic Synthesis", sponsored by UGC and organized by S.B.E.S. College of Science, Aurangabad. (September-2013)
7. 20th ISCB International Conference attended topic entitled, "Chemistry and Medicinal Plants In Translational Medicine for Healthcare", organized by Department of Chemistry, University of Delhi. (March-2014)
8. Science Academies Lecture Workshop attended topic entitled, " Fundamental Concepts in Chemical Sciences", organized by Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Three Academies of Sciences, India. (March-2014)
9. One day National Workshop attended on topic entitled, "Scientific / Research Paper Writing" organized by The National Academy of Sciences, India and Savitribai Phule Pune University, Pune. (Dec.-2014)
10. Three days National Conference attended on topic entitled, "Recent Trends in Drug Development" organized by Savitribai Phule Pune University, Pune. (March, 2015)
11. One Day Acquaintance Programme participated on topic entitled, "Awareness about Facilities and Research Opportunities" organized by Inter University Accelerator Centre (IUAC), New Delhi and Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (May, 2015)

12. Attended “One Day User Awareness Programme under UGC-INFONET Digital Library Consortium” organized by Knowledge Resource Center Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (October, 2015)
13. Participated in one day author workshop on, “Scientific Writing & Publishing Scholarly Articles” organized by Knowledge Resource Center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (November, 2015)

Skills

- Experience in multi-step organic synthesis with special focus on synthesis of novel bioactive heterocycles. Ability to independently design and execute the synthesis from milligram to multigram scale.
- Preparation and handling of air and moisture sensitive reagents/reactions
- Structural elucidation by advanced NMR, IR, and MS analysis.
- Sound knowledge of commonly used chemistry related software's.

Personal Details

Permanent Address:	At post: Salegaon, Ta.: Lohara, Dist.: Osmanabad, Pin code: 413604.
Date of Birth :	09/06/1986.
Gender:	Male
Nationality:	Indian
State:	Maharashtra.
Marital Status:	Single.
Languages Known:	English, Hindi, and Marathi.

Declaration

I hereby declare that, the statements made herein are true, complete and correct as on date to the best of my knowledge.

Date & Place:

Mr. Mahendra Bankat Bhalerao