

CURRICULUM VITAE

Dr. Deepak Choudhary

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ACADEMIC PROFILE

- **Ph.D., Department of Chemistry, University of Delhi** (November 2017). Thesis: “Novel Approaches for the Synthesis of Structurally Diversified N/S/O-Heterocyclic Compounds”.
- **Visiting Ph.D. Student** (31st August 2013 to 1st December 2013) to **Department of Chemistry, CINVESTAV, Mexico City, Mexico** in lab of **Prof. Eusebio Juaristi** (Head of the Department).
- **M. Sc. (Chemistry)** with 67.76% (**Class Topper**) in **2011** from Mahatma Gandhi Institute of applied Science, Jaipur; Affiliated to University of Rajasthan.
- **B.Sc. (Chemistry, Botany, Zoology)**, with 72.37% (**Second Topper**) in **2009** from Seth. G.B. Poddar College, Nawalgarh; Affiliated to University of Rajasthan.
- **Additional Qualification:** Qualified **CSIR-JRF** (June-2011, **AIR-025**; Dec-2011, **AIR-059**; June- 2012), Qualified **GATE-2011 (Score-386)**, GATE-2015, GATE-2018.

EXPERIENCE (Administrative, Academic and Research)

- **Assistant Professor** (8th October 2021 to till date, selected through UPPSC) at Government Degree College, Gabhana (Aligarh), Uttar Pradesh.
- **Research Officer/Scientist** (11th January 2021 to 7th October 2021) at Central Council for Research in Ayurvedic Science (CCRAS), Under the Ministry of AYUSH, Government of India.
- **Incharge** of Library and sales of CCRAS Publication section (10th Jun 2021 to 7th October 2021) at RARI, Gwalior.
- **Co-Incharge** (11th January 2021 to 7th October 2021) of Chemistry Section at RARI, Gwalior.
- **Co-Incharge** (10th Jun 2021 to 7th October 2021) of Electric Work, D. G. set at RARI, Gwalior.
- **Vice President** of Hindi Drafting and Noting competition organized on 20.09.2021 during Hindi Pakhwada 2021 at RARI, Gwalior
- Worked as a Member of Technical/Physical Verification Committee at RARI, Gwalior.
- Worked as a Member of Condemnation Committee at RARI, Gwalior.
- Worked as a Member of Swachhata Committee at RARI, Gwalior.
- Worked as a Member of Fire and Safety Committee at RARI, Gwalior.

AWARDS/FELLOWSHIPS

- **Young Scientist Award** (Dr. J. M. Dasgupta Award, 12th December 2014) by Indian Chemical Society.
- **CONACYT Fellowship** (31st August 2013 to 1st December 2013) by Mexican government.
- **Best poster award** International Symposium on Drug Development for Orphan/Neglected Diseases” 26th – 28th February, 2013 Organized by CDRI, Lucknow.
- **Third Prize Winner** in Hindi quiz competition organized on 24.09.2021 during Hindi Pakhwada 2021 at RARI, Gwalior.
- **Senior Research Fellowship** (Jan. 2014 to till date), by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- **Junior Research Fellowship** (Jan.2012–Jan.2014), by Council of Scientific and Industrial Research (CSIR), New Delhi, India.

ANALYTICAL TECHNIQUES (Quality assurance/Quality control)

- **Synthetic Chemistry:** Skills in handling air and moisture sensitive reactions and reactant & handling reactions at milligram to gram scale level, Acid-base titration.
- **Spectroscopy/Analytical:** Characterization of synthesized molecules using Nuclear Magnetic Resonance (1D and 2D NMR), Infra-Red (IR) spectroscopy, UV-Visible spectroscopy, HRMS, GC, Polarimeter and Mass spectra.
- **X-Ray Single Crystal Analysis:** Analysis of X-Ray single crystal data of organic molecules.
- **Chromatography:** Purification of synthesized compounds using various techniques such as HPLC, Experience in flash chromatography, preparative TLC.

Other Relevant Experience:

- **Computer Skills:** Expertise in MS-Word, PowerPoint, Chem Draw, EndNote, Origin, preparation of research proposals, research work reports and manuscripts for publication. Literature search using various search engines such as Sci-finder, Web of Science, PubMed etc.

PROFESSIONAL & PERSONAL STRENGTHS

- Expertise in designing and executing the synthesis of bioactive organic molecules and development of new methodologies.
- Expertise in handling air and moisture sensitive compounds and their purification and synthetic procedures.
- Capable of carrying independent and collaborative research and maintaining good interpersonal relationships.

LIST OF PUBLICATIONS

1. Akhilesh K. Verma, **Deepak Choudhary**, Rakesh K. Saunthwal, Vineeta Rustagi, Monika Patel and Rakesh K. Tiwari, "On Water: Silver-Catalyzed Domino Approach for the Synthesis of Benzoxazine/Oxazine-Fused Isoquinolines and Naphthyridines from *o*-Alkynyl Aldehydes" *J. Org. Chem.* **2013**, 81, 78, 6657-6669. **I.F.- 4.849**
2. Shilpi Pal, **Deepak Choudhary**, Mohit Jainth, Sonu Kumar, Rakesh K. Tiwari, Akhilesh K. Verma, "Regio- and Stereoselective Tandem Synthesis of Oxazolo fused Pyridoindoles and Benzofurooxazolo Pyridines from ortho-Alkynylaldehydes" *J. Org. Chem.* **2016**, 81, 9356. **I.F.- 4.849**.
* S.P and D.C have equal contribution in this paper.
3. Akhilesh K. Verma, Siva K. Reddy Kotla, **Deepak Choudhary**, Monika Patel, and Rakesh K. Tiwari, "Silver-Catalyzed Tandem Synthesis of Naphthyridines and Thienopyridines via Three-Component Reaction" *J. Org. Chem.* **2013**, 78, 4386-4401. **I.F.- 4.849**
4. Siva K. Reddy Kotla, **Deepak Choudhary**, Rakesh K. Tiwari, Akhilesh K. Verma, "Rhodium(III)-catalyzed double C-H activation: A straightforward approach to fused imidazo[1,2-a]pyridines from internal alkynes" *Tetrahedron Letters* **2015**, 56, 4706-4710. **I.F.- 2.391**
5. Akhilesh K. Verma, Abhinandan K. Danodia, Rakesh K. Saunthwal, Monika Patel and **Deepak Choudhary**, "Palladium-Catalyzed Triple Successive C-H Functionalization: Direct Synthesis of Functionalized Carbazoles from Indoles" *Org. Lett.* **2015**, 17, 3658-3663. **I.F.- 6.579**
6. Rajeev Ranjan Jha, **Deepak Choudhary** and Akhilesh K. Verma. "(1*H*-benzo[*d*][1,2,3]triazol-1-yl)methanol: An Efficient Bidentate Ligand for Copper Catalyzed *S*-Arylation of Thiols" *Indian Journal of Heterocyclic Chemistry*, **2015**, 24, 451-458. **I.F.- 0.168**

Research Projects Handled as a CO-Investigator

1. Title of Project: "Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India Excluding the Plants Mentioned in Ayurvedic Pharmacopoeia of India-Part-II".
2. Title of Project: "Development of Pharmacopoeial Monographs on Single Drug of Origin" (Funding agency: PCIM & H)
3. Title of Project: "QC Analysis, estimation of Marker/PRS & Shelf life studies of AYUSH Manas and AYUSH SR" (Prepared Trial Drugs).
4. Title of Project: "Chemical profiling of Six (06) Ayurvedic Drug Plant Stem Bark/Heartwood and Small Branches using Modern Techniques". (Amount- 35 lakh)

CONFERENCES/WORKSHOPS ATTENDED (oral/poster/participation)

- 1) Given **Oral Presentation** in "Annual Convention of Chemists 2016" 27th – 29th December, 2016 held by Indian Chemical Society at Department of Chemistry GITAM University, Visakhapatnam (Andhra Pradesh).
- 2) Given **Oral Presentation** in "12th NOST Conference for Research Scholars (J-NOST 2016)" 24th – 27th Nov., 2016 organized by CDRI, Lucknow.

- 3) Given **Oral Presentation** in “Annual Convention of Chemists 2015” 28th – 30th December, 2015 held by Indian Chemical Society at Department of Chemistry JECRC University, Jaipur.
- 4) Given **Oral presentation** in “Nascent Developments in Chemical Science : Opportunities for Academia-Industry Collaboration (NDCS-2015)” 16th – 18th October, 2015 organized by Department of Chemistry, Birla Institute of Technology and Sciences Pilani, Pilani Campus (Rajasthan).
- 5) Given **Oral presentation** in “Annual Convention of Chemists 2014” 9th – 12th December, 2014 held by Indian Chemical Society at Department of Chemistry Kurukshetra University, Kurukshetra.
- 6) Given **Poster presentation** in “10th NOST Conference for Research Scholars (J-NOST 2014)” 4th – 6th December, 2014 organized by IIT Madras.
- 7) Given **Poster presentation** in “National Symposium on Transcending Frontiers in Organic Chemistry (TFOC-2014)” 9th – 11th October, 2014 organized by National Institute for Interdisciplinary Science and Technology at CSIR-NIIST, Trivandrum.
- 8) Given **Poster presentation** in “20th ISCB international Conference on Chemistry and Medicinal Plants in Translational Medicine for Healthcare” 1th – 4th March, 2014 Organized by the Department of Chemistry, University of Delhi.
- 9) Given **poster presentation** in “International Symposium on Drug Development for Orphan/Neglected Diseases” 26th – 28th February, 2013 organized by CDRI, Lucknow (**Best poster award**).
- 10) Given **poster presentation** in “Emerging Trend in Development of Drugs and Devices” dated 21st – 23rd January, 2013 organized by Department of Chemistry, University of Delhi.
- 11) Participate in the one day workshop on “Information Literacy & Competency” 17th January, 2013 Organized by Delhi University Library System, University of Delhi, Delhi-110007.
- 12) Participate in the Workshop “How to write for and get published in scientific journals and publish Manuscripts” conducted by Springer in collaboration with the Delhi University Library System, held at Conference Center, University of Delhi, Delhi on 23rd August 2012.
- 13) Participate in “National Symposium on Advanced and Current Development in Chemical Research” 26th – 27th March, 2011 held by Department of Science & Technology, Government of Rajasthan, Jaipur at Mahatma Gandhi Institute of Applied Sciences, Jaipur.



Signature of Faculty Member