



Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile

Name	Dr. Deepak Kumar	
Designation	Assistant Professor	
Email	deepak.kumar@rajguru.du.ac.in gupta.deepak11@gmail.com	
Degree	Institution	Year
Ph.D. (Synthetic Medicinal Chemistry)	Department of Chemistry, University of Delhi	2014
M.Sc. (Organic Chemistry)	Jubilee Hall, Department of Chemistry, University of Delhi	2008
B.Sc. (Hons.) Chemistry	Hansraj College, University of Delhi	2006
D. Pharm.	Board of Technical Education, Uttar Pradesh	2003
10+2	Board of High School and Intermediate Education, Uttar Pradesh	2001
Areas of Interest / Specialization		
Organic Synthesis, Medicinal Chemistry, Drug Design and Molecular Hybrids, Organic Spectroscopy.		
Publications Profile		
1. Shiv S. Maurya, Aparna Bahuguna, Shabana I. Khan, Deepak Kumar, Rohit Kholiya, Diwan S. Rawat, <i>N</i>-Substituted aminoquinoline-pyrimidine hybrids: Synthesis, in vitro antimalarial activity evaluation and docking studies. <i>Eur. J. Med. Chem.</i> 2019, 162, 277-279; ISSN: 0223-5234. (IF 6.7). 2. B. Negi, P. Poonan, M.F. Ansari, Deepak Kumar, S. Aggarwal, R. Singh, A. Azam, D.S. Rawat, Synthesis, antiamebic activity and docking studies of metronidazole- triazole-styryl hybrids. <i>Eur. J. Med. Chem.</i> 2018, 150, 633-641; ISSN: 0223-5234. (IF 6.7). 3. S.S. Maurya, S.I. Khan, A. Bahuguna, Deepak Kumar, D.S. Rawat, Synthesis, antimalarial activity, heme binding and docking studies of <i>N</i>-substituted 4-aminoquinoline-pyrimidine molecular hybrids. <i>Eur. J. Med. Chem.</i> 2017, 129, 175-185; ISSN: 0223-5234. (IF 6.7). 4. Beena Negi, Deepak Kumar, W. Kumbukgolla, S. Jayaweera, P. Poonan, R. Singh, S. Agarwal, D.S. Rawat, Anti-Methicillin Resistant Staphylococcus aureus Activity of Metronidazole-Triazole Hybrids. <i>Eur. J. Med. Chem.</i> 2016, 115, 426-437; ISSN: 0223-5234. (IF 6.7). 5. S. Kirti, Deepak Kumar, N.K. Mogha, V. Singh, D.T. Masram, An efficient synthesis of Bis(indolyl)methanes under solvent free condition using silica supported polyphosphoric acid (PPA-SiO₂) as recyclable catalyst. <i>Journal Scientific and Technical Research</i> 2016, 6, 15-20; ISSN: 2278-3350. (IF 1.58). 6. Sunny Manohar, V. Satya Pavan, Dale Taylor, Deepak Kumar, Prija Ponnann, Lubbe Wiesner, Diwan S. Rawat, Highly active 4-Aminoquinoline-pyrimidine based molecular hybrids as next generation antimalarial agents. <i>RSC Advances</i>, 2015, 5, 28171-28186; ISSN: 2046-2069; (IF 6.1).		

- 7. Deepak Kumar**, Shabana I. Khan, Babu L. Tekwani, Prija Ponnann, Diwan S. Rawat, 4-Aminoquinoline-pyrimidine hybrids: Synthesis, antimalarial activity, heme binding and docking studies. *Eur. J. Med. Chem.* 2015, *89*, 490-502; ISSN: 0223-5234; (IF 6.7).
- 8. Deepak Kumar**, Garima Khare, Beena Negi, Saqib Kidwai, Anil K. Tyagi, Ramandeep Singh, Diwan S. Rawat, Novel isoniazid-amidoether derivatives: Synthesis, characterization and antimycobacterial activity evaluation. *Med. Chem. Commun* 2015, *6*, 131-137; ISSN: 2040-2503; (IF 4.6).
- 9. Deepak Kumar**, Shabana I. Khan, Prija Ponnann, Babu L. Tekwani, Diwan S. Rawat, Synthesis, antimalarial activity, heme binding and docking studies of 4-aminoquinoline-pyrimidine based molecular hybrids. *RSC Advances*, 2014, *4*, 63655-63669; ISSN: 2046-2069; (IF 6.1).
- 10. Deepak Kumar**, Shabana I. Khan, Prija Ponnann, Diwan S. Rawat, Triazine-pyrimidine based molecular hybrids: synthesis, docking studies and evaluation of antimalarial activity. *New Journal of Chemistry* 2014, *38*, 5087-5095; ISSN 1144-0546; (IF 2.6).
- 11. Deepak Kumar**, Beena Negi, Garima Khare, Saqib Kidwai, Ramandeep Singh, Anil K. Tyagi, Diwan S. Rawat, Synthesis of novel 1,2,3-triazole derivatives of isoniazid and their *in vitro* antimycobacterial activity evaluation. *Eur. J. Med. Chem.* 2014, *81*, 301-313; ISSN: 0223-5234; (IF 6.7).
- 12. Deepak Kumar**, K. Kranthi Raj, Sanjay V. Malhotra, Diwan S Rawat, Synthesis and anticancer activity evaluation of resveratrol-chalcone conjugates. *Med. Chem. Commun.* 2014, *5*, 528-535; ISSN: 2040-2503; (IF 4.6)
- 13. Beena Negi, Deepak Kumar**, Mai Ann Bailey, Tanya Parish, Diwan S Rawat, Synthesis and antituberculosis activity evaluation of cyclohexane-1,2-diamine derivatives. *Chem. Biol. Interface.* 2014, *4*, 1-14; ISSN: 2249-4820.
- 14. Beena Negi, Deepak Kumar**, Widuranga Kumbukgolla, Sampath Jayaweera, MaiAnn Bailey, Torey Alling, Juliane Ollinger, Tanya Parish, Diwan S Rawat, Antibacterial activity of adamantly substituted cyclohexane diamine derivatives against methicillin resistant *Staphylococcus aureus* and *Mycobacterium tuberculosis*. *RSC advances*. 2014, *4*, 11962-11966; ISSN: 2046-2069; (IF 6.1).
- 15. Deepak Kumar**, K. Kranthi Raj, MaiAnn Bailey, Torey Alling, Tanya Parish, Diwan S. Rawat, Antimycobacterial activity evaluation, time-kill kinetic and 3D-QSAR study of C-(3-aminomethyl-cyclohexyl)-methylamine derivatives. *Bioorg. Med. Chem. Lett.* 2013, *23* 1365-1369; ISSN: 0960-894X; (IF 2.3).
- 16. Beena Negi, Deepak Kumar**, Diwan S. Rawat, Synthesis and antioxidant activity of thymol and carvacrol based Schiff bases. *Bioorg. Med. Chem. Lett.* 2013, *23*, 641-645; ISSN: 0960-894X; (IF 2.3).
- 17. Deepak Kumar**, Rajesh K. Rohilla, Nilanjan Roy, Diwan S. Rawat, Synthesis and Antibacterial Activity Evaluation of Unsymmetrically Substituted Cyclohexane-1,2-diamine Derivatives. *Chem. Biol. Interface* 2011, *1*, 2, 263-278; ISSN: 2249-4820.
- 18. Deepak Kumar**, Seema Joshi, Rajesh K. Rohilla, Nilanjan Roy, Diwan S. Rawat, Synthesis and antibacterial activity of benzyl-[3-(benzylamino-methyl)cyclohexylmethyl]-amine derivatives. *Bioorg. Med. Chem. Lett.* 2010, *20*, 893-895; ISSN: 0960-894X; (IF 2.3).

e-Content

20 modules on Organic spectroscopy (UV, IR, NMR) under the National project by MHRD, Govt of India "e-PG Pathshala" (<http://epgp.inflibnet.ac.in/view.php?&category=667>).

Reviews Articles

- 1. Deepak Kumar**, Beena Negi, Diwan S. Rawat, Marine peptides as anticancer agents: A remedy to mankind by nature. *Current Protein and Peptide Science*, **2017**, *18*, 1-20; ISSN: 1875-5550; (IF 3.154).

2. Deepak Kumar, Beena Negi, Diwan S. Rawat, The Current Anti-TB Agents and the Challenges Ahead. *Future Med. Chem.* **2015**, 7, 1981–2003. ISSN: 1756-8919 (IF 3.744).

Book Chapters

1. Deepak Kumar, Beena Negi, Diwan S. Rawat, Diverse pharmacological activities of 4-aminoquinoline and its derivatives. Recent Advances in Pharmaceutical Innovation and Research. **2023**; ISBN: 978-981-99-2302-1.

2. Deepak Kumar and Diwan S. Rawat, Marine natural alkaloids as anticancer agents. *Opportunity, Challenge and Scope of Natural Products in Medicinal Chemistry*, 2011: 213–268, ISBN: 978-81-308-0448-4. Published by Research Signpost.

Patent

1. Diwan S. Rawat, Sunny Manohar, Ummadisetty Chinna Rajesh, **Deepak Kumar**, Anuj Thakur, Mohit Tripathi, Panyala Linga Reddy, Shamseer Kulangara Kandi, Satyapavan Vardhineni, KwangSoo, and Chun-Hyung Kim; Amino-quinoline based hybrids and uses thereof; PCT/US2013/28329 (February 28, 2013).

Awards and Distinctions

- CSIR-NET-JRF qualified (2008)
- GATE-2008 qualified: All India Rank 659
- JAM-2006 qualified: All India Rank 467
- Certificate of Merit – District topper in 10+2 (2001)