

Name: Dr. PRIYAMVADA SINGH (Poonam)

Department: Chemistry

Current Designation: Assistant Professor

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Google Scholar: https://scholar.google.co.in/citations?user=xpqpUq8AAAAJ&hl=en

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Academic Qualifications (reverse chronological order):

Institution	Degree	Date	Field of Study
Hansraj College, University of Delhi, Delhi	M.Sc.	2005	Chemistry
Daulat Ram College, University of Delhi, Delhi	B.Sc.	2003	Chemistry, Maths, Physics

Research Degree(s) (reverse chronological order):

Institution	Degree	Date	Field of Study
Department of Chemistry, University of Delhi, Delhi	Ph.D.	2008-2012	Chemistry
Department of Chemistry, University of Delhi, Delhi	M.Phil.	2006-2007	Chemistry

Field of Specialization under the Subject/Discipline: Organic Chemistry

Total Teaching Experience: 10 Years

Teaching at Miranda House since: 23 July 2015

List of Publications:

Total Publications: 59 Citations: 965 h-index:16 i10-index:26



(Articles in referred/peer-reviewed/UGC Care journals/ Books/Book Chapters)

- 2024 Charu Upadhyay, Shreya Bhattacharya, Sumit Kumar, Kapil Vashist, Xujie Zhang, Dominic Gagnon, Pooja Singh, Peng Zhan, Dave Richard, Brijesh Rathi, Agam Prasad Singh, Priyamvada Singh* Fluorinated piperazine hydroxyethylamine analogs as potential antiplasmodial candidates: Synthesis, biological assays and pharmacological studies. 2024 ChemMedChem, e202400616 (IF, 3.6; Chemistry Europe-Wiley; ISBN/ISSN: 1860-7187)
- Sumit Kumar, Dharmender Kumar, Charu Upadhyay, Meenakshi Bansal, Brijesh Rathi, **Priyamvada Singh*** Functionalization of cellulose nanocrystals with bioactive scaffold: Synthesis, characterization, and biological studies. International Journal of Biological Macromolecules **2024**, 282 (1), 136660 (IF, 7.7; Elsevier; ISBN/ISSN: 0141-8130)
- Sharma, Himanshi; Kumar Manoj; Bhatt Padam Raj; **Singh Priyamvada**; Rathi, Brijesh, Metal-free divesification of unprotected amino acid drugs via tandem reaction of 2-(2-oxo-2-aryl/alkylethyl)benzonitrile in aqueous medium. *Chemistry-A European Journal.* **2024**, e202402214 (IF, 4.3; Wiley; ISBN/ISSN: 0947-6539)
- Zahedifard, Farnaz; Bansal, Meenakshi; Sharma, Neha; Kumar, Sumit; Shen, Siqi; Singh Priyamvada; Rathi, Brijesh; Zoltner, Martin Phenotypic screening reveals a highly selective phthalimide-based compound with antileishmanial activity-PLoS Neglected Tropical Diseases 2024, 18, e0012050 (IF, 4.78; PLoS; ISBN/ISSN: 1935-2727)
- 2024 Sumit Kumar, R Bhuvaneshwari, Sejal Jain, Shweta, Zainab Fatima, Dharmender Kumar, Bhupendra S. Chhikara, Brijesh Rathi, **Poonam*** A systematic review on Pesticide-loaded Nanocapsules: A Sustainable route for pesticide management to enhance crop productivity. *Current nanoscience* 2024, 20(3), 280-297 (IF, 3.57; Bentham Science; ISBN/ISSN 1875-6786)
- 2024 Monika Chaudhary, **Priyamvada Singh***, Gajendra Pratap Singh, Brijesh Rathi* Structural features of carbon dots and their agricultural potentials. **2024** *ACS Omega*, 9 (4), 4166-4185, (IF, 4.13; ACS Publications; ISBN/ISSN 2470-1343
- Monika Kumari, Bhupendra Singh Chhikara, **Priyamvada Singh**, Brijesh Rathi, Geeta Singh, Signaling and molecular pathways implied in oral cancer development: A concise review. *Chem. Biol. Lett.* **2024**, 11(1), 652. (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825) (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825)
- 2023 Manoj Kumar, Shalini Verma, Mukul Sharma, Poonam*, Brijesh Rathi* Metal-Catalyzed Synthesis of Benzofused Five-Membered N/O/S Heterocycles, a progressive area in synthetic chemistry. *European Journal of Organic Chemistry*, 2023, 26, e202300877 (1-26) (IF, 3.26; Wiley; ISBN/ISSN: 1099-0690)
- **2023** Miklós Bege, Vigyasa Singh, Neha Sharma, Nóra Debreczeni, Ilona Bereczki, **Poonam**, Pál, Herczegh, Brijesh Rathi, Shailja Singh, Anikó Borbás. In vitro and in vivo antiplasmodial evaluation of sugar-modified nucleoside analogues. *Scientific Reports*, **2023**, 13, 12228 (IF, 4.6; Nature; ISBN/ISSN 2045-2322)



- 2023 Charu Upadhyay, Shreya Bhattacharya, Sumit Kumar, Dharmender Kumar, Neha Bhadula, Brijesh Rathi*, Agam Prasad Singh*, **Poonam*** Novel fluorinated piperazine based-amino acid derivatives as antiplasmodial agents: Synthesis, bioactivity and computational studies. Chem. Biol. Lett. 2023, 10 (3), 543 (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825)
- Sharma, H.; Kumar, M.; Sethi, A.; Poonam; Rathi, B. Metal-free construction of aminated isoquinoline frameworks from 2-(2-oxo-2-arylethyl) benzonitrile in an aqueous medium. Green Chem. 2023,25 167-171 https://doi.org/10.1039/D2GC04044A (IF, 11.03; Royal Society of Chemistry; ISBN/ISSN 1463-9262)
- 2022 Sharma, P. P.; Bhardwaj, S.; Sethi, A.; Grishina, M.; Poonam*, Rathi B. 2022 Chitosan based architectures as biomedical carriers. Carbohydrate Research, 2022, 522, 108703 https://doi.org/10.1016/j.carres.2022.108703 (IF, 1.92; Elsevier; ISBN/ISSN 0008-6215)
- 2022 Kumar, S.; Sharma, N.; Dantas, W.; Nascimento, J. C. F. do; Maus, H.; Oliveira, R.; Pandit, U.; Singh, A. P.; Schirmeister, T.; Hazari, P.; Pena, L.; Poonam*; Rathi, B. A potent candidate against Zika virus infection: Synthesis, bioactivity, radiolabelling and biodistribution studies. New J. Chem. 2022, 46, 18764-18775 https://doi.org/10.1039/D2NJ02482A (IF, 3.92; Royal Society of Chemistry; ISBN/ISSN 1144-0546)
- 2022 Sharma, N.; Sharma, H.; Kumar, M.; Pandit, U.; Poonam; Rathi, B. Immaculate mechanochemical grinding facilitates hassle free sustainable synthesis of N-substituted amines. Org. Biomol. Chem., 2022, 20, 6673-6679 https://pubs.rsc.org/en/content/articlepdf/2022/OB/D2OB01148D (IF, 3.89; Royal Society of Chemistry; ISBN/ISSN 1477-0539)
- 2022 Chhikara, B. S.; Singh, N. Poonam; Bazard, P.; Verma, R. S.; Parang, K. Nanotherapeutics and HIV: Four decades of infection canvass the quest for drug development using nanomedical technologies. 2022 Appl. Nanomed. 22 (1), 354 (SciencelNPublishing; ISBN/ISSN 2394-0867)
- 2022 Singh, V.; Hada, R.; Jain, R.; Vashistha, M.; Kumari, G.; Singh, S.; Sharma, N.; Bansal, M.; Poonam; Zoltner, M.; Caffrey, C.; Rathi, B.; Singh, S.. Designing and Development of Phthalimides as Potent Anti-Tubulin Hybrid Molecules Against Malaria. 2022 Eur. J. Med. Chem., 239, 114534. https://doi.org/10.1016/j.ejmech.2022.114534 (IF, 7.02; Elsevier; ISBN/ISSN 0223-5234)
- Qupta Y.; Sharma, N.; Singh, S.; Romero, J. G.; Rajendran, V.; Mogire, R. M.; Kashif, M.; Beach, J.; Jeske, W.; Poonam, Ogutu, B. R.; Kanzok, S. M.; Akala, H. M.; Legac, J.; Rosenthal, P.; Rademacher, D. J.; Durvasula, R. V.; Singh, A. P.; Rathi, B.; Kempaiah, P. The multistage antimalarial compound Calxinin pertuberates P. falciparum Ca²⁺ homeostasis by targeting a unique ion channel. 2022 Pharmaceutics,14, 1371. https://www.mdpi.com/1999-4923/14/7/1371 (IF, 6.52; MDPI; ISBN/ISSN 1999-4923)
- **2022** Kumar, S.; Kovalenko, S.; Bhardwaj, S.; Sethi, A.; Gorobets N. Y.; Poonam*; Rathi B., Drug Repurposing against SARS-CoV-2 forecasted by computational



- approaches. Drug Discov. Today **2022**, 27 (5), 2015-2027. (IF, 7.851; Elsevier; ISSN: 1359-6446) https://doi.org/10.1016/j.drudis.2022.02.004
- Upadhyay, C.; Sharma, N.; Kumar, S.; Sharma, P. P.; Fontinha, D.; Chhikara, B. S.; Mukherjee, B.; Kumar, D.; Prudencio, M.; Singh, A. P.; Poonam* Synthesis of new analogs of morpholine and their antiplasmodial evaluation against human malaria parasite Plasmodium falciparum New J. Chem. 2022, 46, 250-262. (IF, 3.59; Royal Society of Chemistry; ISBN/ISSN 1144-0546) https://pubs.rsc.org/en/content/articlelanding/2021/nj/d1nj04198c/unauth
- Gupta Y.; Goicoechea S.; Pearce M. C.; Mathur M.; Romero G. J.; Kwofie, S. K.; Weyenberg C. M.; Daravath B.; Sharma N.; Poonam; Akala M. H.; Kanzok M. S.; Durvasula R.; Rathi B.; Kempaiah, P., The emerging paradigm of Calcium channels as drug targets among Protozoan Parasites. Med. Res. Rev. 2022, 42, 56-82. https://doi.org/10.1002/med.21804 (IF, 12.11; Wiley; ISBN/ISSN: 1098-1128)
- 2021 Sharma, P. P.; Bansal, M.; Sethi, A.; Poonam; Pena, Li.; Goel, V. K.; Grishina, M.; Chaturvedi, S.; Kumar, D.; Rathi B., 2021 Computational methods directed towards drug repurposing for COVID-19: advantages and limitations. RSC Adv. 2021,11, 36181-36198. (IF, 3.36; Royal Society of Chemistry; ISBN/ISSN 2046-2069)
- Chhikara, B. S.; Kumar, R.; **Poonam**; Bazard, P.; Varma, R. S. Viral infection mitigations using advanced nanomaterials and tools: lessons from SARS-CoV-2 for future prospective interventions. 2021 Journal of Materials Nanoscience 2021,8 (2), 71 https://pubs.thesciencein.org/journal/index.php/jmns/article/view/260
- 2021 Gupta Y.; Kumar, S.; Zak, S. E.; Jones, K. A.; Upadhyay, C.; Sharma, N.; Azizi, S.-A.; Kathavat, R. S.; Poonam; Herbert, A. S.; Durvasula, R.; Dickinson, B. C.; Dye, J. M.; Rathi B.; Kempaiah, P., 2021 Antiviral Evaluation of Hydroxyethylamine Analogs: Inhibitors of SARS-CoV-2 Main Protease (3CLpro), A Virtual Screening and Simulation Approach. Bioorg. Med. Chem. 2021, 47, 116393 https://doi.org/10.1016/j.bmc.2021.116393 (IF, 3.641; Elsevier; ISBN/ISSN 0968-0896)
- Zurvasula, R.; Dye, J. M.; Poonam*; Kempaiah, P.; Rathi B., A novel compound active against SARS-CoV-2 targeting Uridylate-specific endoribonuclease (NendoU/NSP15): in silico and in vitro investigations. RSC Med. Chem. 2021, 12, 1757-1764. https://doi.org/10.1039/D1MD00202C (IF, 3.35; Royal Society of Chemistry; ISSN, 2632-8682)
- 2021 Bansal, M.; Upadhyay, C.; Poonam; Kumar, S.; Rathi B. Phthalimide Analogs for Antimalarial Drug Discovery. RSC Med. Chem. 2021, 12, 1854-1867 https://doi.org/10.1039/D1MD00244A (IF, 3.35; Royal Society of Chemistry; ISSN, 2632-8682)
- Sharma, P. P.; Kumar, S.; Srivastava, S.; Srivastava, M.; Jee, B.; Gorobets, N. Y.; Kumar, D.; Kumar, M., Asthana, S.; Zhang, P.; **Poonam**; Zoltner, M.; Rathi B., Computational Study of Novel inhibitory molecule, 1-(4-((2S,3S)-3-amino-2-



- hydroxy-4-phenylbutyl) piperazin-1-yl)-3-phenylurea, with high potential to competitively block ATP binding to the RNA dependent RNA polymerase of SARS-CoV-2 virus. J. Biomol. Struct. Dyn. **2021** https://doi.org/10.1080/07391102.2021.1940281 (IF, 3.3549; Taylor & Francis; ISSN, 1538-0254)
- 2021 Kumar, S.; Sharma, P. P.; Kempaiah, P.; Rathi B.; Poonam* Multi-targeting approach for nsp3, nsp9, nsp12 and nsp15 protein targets of SARS-CoV-2 by Diosmin as illustrated by Molecular Docking and MD simulation methodologies. Methods 2021,195, 44-56 https://doi.org/10.1016/j.ymeth.2021.02.017 (IF, 3.64; Elsevier; ISBN/ISSN 1046-2023)
- Sharma, P. P.; Kumar, S.; Kumar, K.; Singh, A.; Singh, I. K.; Grishina, M.; Pandey, K. C.; Singh, P.; Potemkin, V.; Poonam; Singh, G.; Rathi, B., In silico validation of novel inhibitors of malarial aspartyl protease, plasmepsin V and antimalarial efficacy prediction, J. Biomol. Struct. Dyn. 2021 https://doi.org/10.1080/07391102.2021.1911855 (IF, 3.39; Taylor & Francis; ISSN, 1538-0254).
- Sharma, N.; Gupta, Y.; Bansal, M.; Singh, S.; Pathak, P.; Shahbaaz, M.; Mathur, R.; Singh, J.; Kashif, M.; Grishina, M.; Potemkin, V.; Rajendran, V.; **Poonam**; Kempaiah, P.; Singh, A. P.; Rathi, B., Multistage antiplasmodial activity of hydroxyethylamine compounds, in vitro and in vivo evaluations. RSC Adv. **2020**, 10 (58), 35516-35530 [https://pubs.rsc.org/en/content/articlehtml/2020/ra/d0ra03997g (IF, 3.119; Royal Society of Chemistry; ISBN/ISSN 2046-2069)
- Kumar, S.; Upadhyay, C.; Bansal, M.; Grishina, M.; Chhikara, B. S.; Potemkin, V.; Rathi, B.; Poonam*, Experimental and Computational Studies of Microwave-Assisted, Facile Ring Opening of Epoxide with Less Reactive Aromatic Amines in Nitromethane. ACS Omega 2020, 5 (30), 18746-18757 https://pubs.acs.org/doi/10.1021/acsomega.0c01760 (IF, 2.87; ACS Publications; ISBN/ISSN 2470-1343)
- Kumar, S.; Goicoechea, S.; Kumar, S.; Pearce, C. M.; Durvasula, R.; Kempaiah, P.; Rathi, B.; Poonam*, Oseltamivir analogs with potent anti-influenza virus activity. Drug Discov. Today 2020, 25 (8), 1389-1402 https://doi.org/10.1016/j.drudis.2020.06.004 (IF, 7.851; Elsevier; ISSN: 1359-6446)
- 2020 Kumar, S.; Sharma, P. P.; Shankar, U.; Kumar, D.; Joshi, S. K.; Pena, L.; Durvasula, R.; Kumar, A.; Kempaiah, P.; Poonam*; Rathi, B., Discovery of New Hydroxyethylamine Analogs against 3CLpro Protein Target of SARS-CoV-2: Molecular Docking, Molecular Dynamics Simulation, and Structure—Activity Relationship Studies. J. Chem. Inf. Model. 2020, 60 (12), 5754-5770 https://pubs.acs.org/doi/10.1021/acs.jcim.0c00326 (IF, 4.549; ACS Publications; ISBN/ISSN 1549-9596)
- **2020** Kumar, S.; **Poonam** and Rathi, B., Coronavirus Disease COVID-19: A New Threat to Public Health. Curr Top Med Chem. **2020**; 20(8) 599-600 [Editorial]



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- Upadhyay, C.; Chaudhary, M.; De Oliveira, R. N.; Borbas, A.; Kempaiah, P.; Poonam*; Rathi, B., Fluorinated scaffolds for antimalarial drug discovery. Expert Opin. Drug Discov. 2020, 15 (6), 705-718 (https://doi.org/10.1080/17460441.2020.1740203 (IF, 6.098; Taylor & Francis; ISBN/ISSN 1746-0441)
- 2020 Chhikara, B. S.; Rathi, B.; Singh, J.; Poonam, Corona virus SARS-CoV-2 disease COVID-19: Infection, prevention and clinical advances of the prospective chemical drug therapeutics. Chem. Biol. Lett. 2020, 7 (1), 63-72 http://pubs.iscience.in/journal/index.php/cbl/article/view/995 (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825)
- 2020 Sumit, K.; Devender, S.; Pooja, K.; Rajender Singh, M.; Poonam; Keykavous, P.; Rakesh Kumar, T., PEGylation and Cell-Penetrating Peptides: Glimpse into the Past and Prospects in the Future. Curr. Top. Med. Chem. 2020, 20 (5), 337-348. https://www.eurekaselect.com/node/178744/article/pegylation-and-cell-penetrating-peptides-glimpse-into-the-past-and-prospects-in-the-future (IF, 3.218; Bentham Science; ISBN/ISSN 1568-0266)
- ZO20 Kelemen, V.; Csávás, M.; Hotzi, J.; Herczeg, M.; Poonam; Rathi, B.; Herczegh, P.; Jain, N.; Borbás, A., Photoinitiated Thiol-Ene Reactions of Various 2,3-Unsaturated O-, C- S- and N-Glycosides Scope and Limitations Study. Chem. Asian J. 2020, 15 (6), 876-891 https://doi.org/10.1002/asia.201901560 (IF: 3.69; Wiley; ISBN/ISSN 1861-471X)
- 2020 Singh, S.; El-Sakkary, N.; Skinner, D. E.; Sharma, P. P.; Ottilie, S.; Antonova-Koch, Y.; Kumar, P.; Winzeler, E.; Poonam; R Caffrey, C.; Rathi, B., Synthesis and Bioactivity of Phthalimide Analogs as Potential Drugs to Treat Schistosomiasis, a Neglected Disease of Poverty. Pharmaceuticals 2020, 13 (2), 25 https://pubmed.ncbi.nlm.nih.gov/32028743/ (IF: 5.68; MDPI; ISBN/ISSN 1424-8247)
- 2019 Sharma N.; Verma A.; Poonam; Kempaiah P.; Rathi B.; Chemical libraries targeting Liver Stage Malarial infection. Chem. Biol. Lett. 2019, 6 (1), 14-22 http://www.pubs.iscience.in/journal/index.php/cbl/article/view/924 (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825)
- 2019 Kumar, S.; Wu, L.; Sharma, N.; Ayushee; Kaushik, K.; Grishina, M.; Chhikara, B. S.; Poonam; Potemkin, V.; Rathi, B., Theoretical and experimental studies of an oseltamivir–triazole-based thermoresponsive organogel. RSC Adv. 2019, 9 (36), 21031-21041 https://doi.org/10.1039/C9RA02463H (IF, 3.119; Royal Society of Chemistry; ISBN/ISSN 2046-2069)
- **2019 Poonam**; Kumari, P.; Grishina, M.; Potemkin, V.; Verma, A.; Rathi, B., Oxygen mediated highly efficient cobalt(ii) porphyrin-catalyzed reduction of functional chromones: experimental and computational studies. New J. Chem. 2019, 43 (13), 5228-5238 https://doi.org/10.1039/C9NJ00266A (IF, 3.59; Royal Society of Chemistry; ISBN/ISSN 1144-0546)



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- 2018 Singh, S.; Sharma, N.; Upadhyay, C.; Kumar, S.; Rathi, B.; Poonam, Small Molecules Effective Against Liver and Blood Stage Malarial Infection. Curr. Top. Med. Chem. 2018, 18 (23), 2008-2021 https://www.eurekaselect.com/node/167899/article/small-molecules-effective-against-liver-and-blood-stage-malarial-infection (IF, 3.29; Bentham Science; ISBN/ISSN 1568-0266)
- 2018 Singh, A. K.; Rajendran, V.; Singh, S.; Kumar, P.; Kumar, Y.; Singh, A.; Miller, W.; Potemkin, V.; Poonam; Grishina, M.; Gupta, N.; Kempaiah, P.; Durvasula, R.; Singh, B. K.; Dunn, B. M.; Rathi, B., Antiplasmodial activity of hydroxyethylamine analogs: Synthesis, biological activity and structure activity relationship of plasmepsin inhibitors. Bioorg. Med. Chem. 2018, 26 (13), 3837-3844 https://doi.org/10.1016/j.bmc.2018.06.037 (IF, 3.641; Elsevier; ISBN/ISSN 0968-0896)
- 2018 Rathi B, Kumar Y, Kumar S, Poonam. Molecules Effective against Infectious Diseases Part II. Curr Top Med Chem. 2018;18(23):2007 [Editorial] (IF, 3.218; Bentham Science; ISBN/ISSN 1568-0266)
- 2018 Rathi B, Kumar Y, Kumar S, **Poonam**. Anti-infectious Drugs: Approaches and Achievements Part I. Curr Top Med Chem. 2018;18(22):1925 [Editorial] IF, 3.218; Bentham Science; ISBN/ISSN 1568-0266)
- 2017 Nikolay Yu, G.; Yuriy, V. S.; Brajendra, K. S.; Poonam; Brijesh, R., An Overview of Currently Available Antimalarials. Curr. Top. Med. Chem. 2017, 17 (19), 2143-2157 https://pubmed.ncbi.nlm.nih.gov/28137228/ (IF, 3.218; Bentham Science; ISBN/ISSN 1568-0266)
- 2017 Rathi B, Feletrov Y, Latha N, Poonam, Vladimir S. New Avenues in Controlling Infectious Diseases. Curr Top Med Chem. 2017;17(18):2005. [Editorial] IF, 3.218; Bentham Science; ISBN/ISSN 1568-0266)
- **2017** Rathi B, **Poonam.** Special issue: Infection Diseases. Chem. Biol. Lett. 2017; 4 (1): 20-26. (IF, 4.4; Integrated Science; ISBN/ISSN 2347-9825)
- **2016 Poonam**; Nagpal, R.; Arora, S.; S Chauhan, S. M., Efficient synthesis of metallated thioporphyrazines in task specific ionic liquids and their spectroscopic investigation of binding with selected transition metal ions. J. Chem. Sci. 2016,



128 (9), 1417-1422 https://link.springer.com/article/10.1007/s12039-016-1143-8 (IF, 1.573; Springer Link; ISBN/ISSN 0973-7103)

- **2015 Poonam**; Aggarwal, N., Recent advances in development of Inhibitors of Dengue infection. Chem. Biol. Lett. 2015, 2 (2), 22-29 http://www.pubs.iscience.in/journal/index.php/cbl/article/view/355(IF,4.4; Integrated Science; ISBN/ISSN 2347-9825)
- Yadav, K. K.; Poonam; Chauhan, S. M. S., Convenient and Efficient Method for the Synthesis of Phthalocyanines and Metallophthalocyanines in Task-Specific 2-Hydroxyethyl Ionic Liquids. Synth. Commun. 2014, 44 (19), 2797-2807 https://doi.org/10.1080/00397911.2013.867505 (IF, 2.007; Springer Link; ISBN/ISSN 0039-7911)
- 2011 Poonam; Kumari, P.; Ahmad, S.; Chauhan, S. M. S., Reductive dechlorination of atrazine using sodium-borohydride catalysed by cobalt (II) phthalocyanines. Tetrahedron Lett. 2011, 52 (52), 7083-7086 https://doi.org/10.1016/j.tetlet.2011.10.080 (IF, 2.415, Elsevier; ISBN/ISSN 0044-4039)
- 2011 Poonam; Kumari, P.; Nagpal, R.; Chauhan, S. M. S., Formation of hydridocobalt(iii) phthalocyanine by reaction of cobalt(ii) phthalocyanines with sodium borohydride and its reactions with antioxidant isoflavones. New J. Chem. 2011, 35 (11), 2639-2646 https://doi.org/10.1039/C1NJ20582J (IF, 3.59; Royal Society of Chemistry; ISBN/ISSN 1144-0546)
- 2009 Kumari, P.; Poonam; Chauhan, S. M. S., Efficient cobalt(ii) phthalocyanine-catalyzed reduction of flavones with sodium borohydride. Chem. Commun. 2009, (42), 6397-6399
 https://doi.org/10.1039/B912928F
 (IF, 6.22; Royal Society of Chemistry; ISBN/ISSN 1359-7345)

<u>Patents</u>

- 2022 Brijesh Rathi Prakasha Kempaiah, Agam P. Singh, Snigdha Singh, Yash Gupta, Neha Sharma, Poonam, Ravi Durvasula. Title of Invention: Hydroxyethyl amine based piperazine compounds and methods of producing and using the same for treating disease. CALXININ; US patent No. US 11,485,714 B2; Date of patent: 1 Nov. 2022
- 2022 Steven Bradfute, Ravi Durvasula, Prakasha Kempaiah, Brijesh Rathi, Poonam, Yash Gupta. Title of Invention: Calxinin Compositions and Method for Treating Viral Infections. [US provisional patent app. STC Ref. No.2020-095-01, 28 April 2020] US patent app. Serial no. PCT/US22/26943, 29 April 2022
- 2020 Brijesh Rathi Prakasha Kempaiah, Agam P. Singh, Snigdha Singh, Yash Gupta, Neha Sharma, Poonam, Ravi Durvasula Indian Patent Application is 202011056923, filed on <u>December 29, 2020</u> Title of Invention: Hydroxyethyl amine based piperazine compounds and methods of producing and using the same for treating disease.

Book Chapters



- **2024** Editor(s) Mansi Verma, Priyamvada Singh, Brijesh Rathi and Indrakant Singh (2024), Proceedings of 3rd International Conference on International Conference on Integrative Chemistry, Biology and Translational Medicine. [ISBN NO: 978-93-95033-37-4] A.K Publications, Delhi-93
- 2023 Charu Upadhyay, Sumit Kumar, Poonam (2023) Recent advances on the discovery of plants derived bioactive scaffolds/extracts against parasitic diseases. Springer -nature, Pg. 1-22, # The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. A. Singh et al. (eds.), Natural Product Based Drug Discovery Against Human Parasites, https://doi.org/10.1007/978-981-19-9605-4_1 [ISBN 978-981-19-9604-7]
- **2018** Brijesh Rathi and **Poonam** (2018) ALCOHOLISM: Causes, Symptoms Effects and Treatment. Manakin Press, New Delhi, India [ISBN: 9789-38667-7488, Chemical Therapeutics for the treatment of alcoholism, Pg. 237-248]
- **2017 Poonam** (2017) (1st ed). Indian and Western Aspects of Identity, Shree Kala Prakashan, Delhi. [ISBN ISBN: 978-9385329-21-0, Current Scenario of Malarial Chemotherapeutics, Pg. 146-156]

Educational Resource Material Developed:

2021 Development of MOOC course for undergraduate students as ILLL fellow

Research Guidance:

Ph.D Awarded:

2018- 2023	Ph.D	Charu Upadhyay	Thesis Topic : Novel fluorinated
	Awarded	(CSIR-JRF)	compounds potent against malaria
			parasite: In vitro and in vivo anti-
			plasmodial studies

2018-2023 Ph.D Sumit Kumar Thesis Topic : Computationally accelerated development of potent scaffolds and their biological assessment against SARS-CoV-2

Ph.D Student/ Project Fellows:

2023 Ph.D Dharmender Kumar Thesis Topic : Design and development of chemical scaffolds



			and their application in medicinal and material chemistry.
2023-24	Project Fellow	Neha Bhadula (DST/TDT/AGRO- 54/2021)	Topic : Sustainable route for pesticide management using nano based efficient pesticide formulation technique to enhance crop productivity.
2022-23	Project Fellow	Dharmender Kumar (DST/TDT/AGRO- 54/2021)	Topic : Sustainable route for pesticide management using nano based efficient pesticide formulation technique to enhance crop productivity.
2018-2019	Project Fellow	Sonu Kumar (DST/TDT/DDP- 14/2018)	Topic : Development of Nanoantenna Sensors for Infrared Detection

Research Interns:

2022 (9June-14 July 2022)	DSKC Research Interns	R Bhuvaneshwari, Shweta, Zainab Fatima, Sejal Jain	Topic : Nanocpsules an important tool for controlled release of pesticides.
2022 (9June-14 July 2022)	DSKC Research Interns	Dharna Yadav, Divya Singh, Kriti Shakya	Topic : Recent advances in the study Argentine haemorrhagic fever caused by the Junin Virus
2018-2019	Rasayanika Interns	Rupal Garg (undergraduate students)	Topic : Detoxification of environmental persistent organic pollutants primarily pesticides using functionalized nanomaterials
2018-2019	Rasayanika Interns	Sheetal Kalra (undergraduate students)	Topic : Detoxification of environmental persistent organic pollutants primarily pesticides using functionalized nanomaterials

Research Projects:

Ongoing Research Support

- CSIR-ASPIRE Proposal ID: 55234 25.54 lakhs Poonam (PI) 2024- 2026

 Design, synthesis and biological evaluation of novel heterocyclic compounds as leads for antimalarial drug discovery
- R & C Cell, Miranda House, University of Delhi 1.5 lakhs Poonam (Co-PI) 2024- 2025
 R&D-11/2024



Scavenging of heavy metal-rich soil by Phytoremediation with the application of biofertilizers: Paradigms and prospects

- R & C Cell, Miranda House, University of Delhi. 1.5 lakhs Poonam (PI) 2024- 2025 R&D-15/2024
 - Phytotherapeutic potency of Stachytarpheta Cayennensis against malaria.
- Institute of Eminence (IOE), University of Delhi. (2022-23) 1.5 lakhs Poonam (PI)

 Development and biological evaluation of heterocyclic compounds based on the fusion of sulfonamide moiety and biological active amines against malaria. 2022- 2024
- ASEAN (India+ Malaysia + Thailand) (SERB, Govt. of India) CRD/2022/000580
 Target based screening and development of hydroxyethylamine derivatives as novel antimalarials.
 28.10 lakhs
 Poonam (Co-PI).
 2024- 2026

Completed Research Support

- DST/TDT/AGRO-54/2021 (DST, Govt. Poonam (PI) 17/Dec/21-of India) [46.77 Lakh] 16/Dec/23
 Sustainable route for pesticide management using nano based efficient pesticide formulation technique to enhance crop productivity.
- CRG/2020/005800 (SERB, Poonam (Co-PI) 13/Nov/20 12/Nov/23 Govt. of India) [46.41 Lakh]
 Lead Optimization of Potent Multistage Antimalarials
- INT/HUN/P-11/2016 (DST, Govt. of Poonam (Co-PI) 24/Nov/16 23/Nov/19 India) [36 Lakh]
 Thio-click approach for the synthesis of stable glycomimetics and chiral oxathiacrown ethers (Indo-Hungarian Bilateral Research Grant).
- F.30-375/2017 (BSR) (UGC, Govt. of Poonam (PI) 7/Mar/17 6/Feb/19
 India) [10 Lakh]
 Detoxification of environmental persistent organic pollutants primarily pesticides using functionalized nanomaterials

Membership of Professional Bodies (reverse chronological order):

2023	Member of MH-Garden Committee, Miranda House, University of Delhi, Delhi
ONWARDS	
2022	Advisory team member, Dean Students' Welfare, University of Delhi, Delhi.
2021-	Editorial Team member, Journal of Molecular Chemistry
	(https://pubs.thesciencein.org/journal/index.php/jmc/about/editorialTeam



2021-	Assistant Editor-Medicinal Chemistry; Chemical Biology Letters https://pubs.thesciencein.org/journal/index.php/cbl/about/editorialTeam
2020- 2021	Member (32255116) The American Chemical Society, USA
2019- 2021	Coordinator: Life Science Department, Miranda House, University of Delhi
2018-	Member of MH-Vatavaran, Miranda House, University of Delhi, Delhi
2017- 2018	Guest Editor: Current Topics in Medicinal Chemistry
2017- 2018	Guest Editor: Chemical Biology Letters
2017-	Life Member (L32927), The Indian Science Congress Association, Kolkata
2016-2018	Member of Placement Cell, Miranda House, University of Delhi
2016-	Jury Member, DST Inspire Programme by Ministry of Science & Technology

Administrative Responsibilities (reverse chronological order):

2021-2023	Student Advisor- Rasayanika, The Chemical Society, Miranda House
15.10.21	Admissions Department of Chemistry 2021-22 (Online mode)
10.10.20	Admissions Life Science Society 2020-21 (Online mode)
10.06.20	Admissions Life Science Society 2019-20
2019- 2021	Coordinator: Life Science Society, Miranda House, University of Delhi

Invited talks/Session chair/Resource person:

2024 October 2024 June	Invited Talk on "Nature friendly nanoconjugates and their biophysical applications" at University of Cyberjaya, Kuala Lampur, Malaysia. 22.10.2024. Facilitator/Mentor at the summer workshop "Flavor of Research" for undergraduate science students organized by DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007. 13.06.2024 to 25.07.2024
2024 July	Resource person in the Inspire Internship Programme-2024 held at
•	Miranda house, University of Delhi, Delhi-110007. 8.07.2024 to 12.07.2024
2024 May	Invited Talk on "Medicinal chemistry approaches for antiviral drug discovery"
-	at University of Cyberjaya, Kuala Lampur, Malaysia. 27.5.2024.
2024 March	Invited Talk on "SARS-CoV-2: Efforts for the drug design and drug discovery"
	3 rd International Conference on Integrative Chemistry, Biology and Translational
	Medicine (ICBTM-2024) held at Pacific University, Udaipur, India. 09.3.2024.
2023 August	Resource person in the Bridge course on laboratory safety and handling of
	equipment on 23 and 28 August 2023 by Chemistry Department, Miranda
	House.
2023 June	Facilitator/Mentor at the summer workshop "Flavor of Research" for
	undergraduate science students organized by DS Kothari centre for research
	and innovation in science education, Miranda house, University of Delhi, Delhi-
	110007. 06.06.2023 to 18.07.2023



1.07.2022	Resource person for the Online Orientation Cum Guidance Program for Common University Entrance Test (CUET) 2022 under the aegis of Dean
	Student's Welfare in collaboration with Institute of Life Long Learning (ILLL)
	from June 27 th – July 7 th , 2022.
	https://www.youtube.com/watch?v=ekXo MxGx0Y
2 Feb 2022	Resource person in online two week FDP on chemical sciences, title of the talk "Simple heterocyclic chemistry leading to potential molecules valuable for
	management of infectious diseases" organized by Ramanujan College, India
28 Oct 2021	Distinguished Panellist - Women in Science in 27th International Conference
	(CONIAPS XXVII) on the theme of "Interdisciplinary Research in Biomedical
	Sciences" organized by Amity University, Noida
13 July 2021	Talk Show - Women in Science Pandemic and Beyond organized by Her World
	India.
22 May 2019	Physico-Chemical Studies of Bioactive Scaffolds in a Three-day International workshop on Chemistry and Chemical Biology of Carbohydrates, Nucleic acids and Antibiotics organized by Hungarian Academy of Sciences in Mátrafüred, Hungary.
2018 June 12	Applications of Catalysts; Efficient way to solve the Environmental Crisis,
2010 Guile 12	Department of Pharmaceutical Chemistry, University of Debrecen, Hungary

Conferences Organised:

- Organizing Committee member for the Nano Jatha lecture series, roadshow & exhibition held at Miranda House, University of Delhi. Delhi-110007. 05.07.2024.
- Organizing Committee member for the one day hands on training workshop on analytical instrumentation techniques held at Miranda House, University of Delhi. Delhi-110007. 23.04.2024.
- **Organizing Secretary** for the 3rd International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2024) held at Pacific University, Udaipur, India. 8.03.2024 10.03.2024.
- Organizing Committee member for the IUPAC GWB 24 and National Science Day held at Miranda House, University of Delhi. Delhi-110007. 28.02.2024.
- Organizing Committee member for the International conference on "Smart Consumption and Sustainable Living" held at Miranda House, University of Delhi. Delhi-110007. 24.02.2023-25.02.2023.
- Organizing Committee member for the International conference on "Recent Trends in Chemical Sciences-2023" held at Miranda House, University of Delhi. Delhi-110007. 14.02.2023-15.02.2023.
- **Organizing Secretary** for the 2nd International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2022) held at Conference Center, University of Delhi, North Campus, Delhi, India. 6.12.2022 8.12.2022.
- **Participated** in the Workshop on Implementation of NEP 2020: Implications for Undergraduate Colleges by Dr. Leena Gahane held at Miranda House, University of Delhi.



23.09.2022.

- Facilitator/Mentor at the summer workshop "Flavor of Research" for undergraduate science students organized by DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007. 09.06.2022 to 21.07.2022
- Organizing Secretary for the online international conference on "science and society" held at Miranda House, University of Delhi. Delhi-110007. 23.02.2022 - 25.02.2022 [Supported by Rs. 50,000 /- from CSIR]
- Member Secretary for the Open House Discussion on NEP 2020 with special emphasis on National Professional Standards for Teachers (NPST) (para 5.20) and National Mission for Mentoring (NMM) (para 15.11), organized by the National Council for Teacher Education (NCTE) in collaboration with University of Delhi. 16.12.2021. https://www.youtube.com/watch?v=QpTV6D ST0Y
- Organizing Secretary for the International virtual conference on "Chemistry- the catalyst for change" held at Miranda House, University of Delhi. Delhi-110007. 19.02.2021 20.02.2021
- Organizing Committee member for the International Webinar on "Empowering diversity in Science" held at Miranda House, University of Delhi. Delhi-110007. 12.02.2021
- Convener for the International One Day Webinar on "Drug Discovery approaches for emerging and drug resistant pathogens" held at Miranda House, University of Delhi. Delhi-110007. 02.02.2021
- Convener for the National One Day Webinar on "Battling Environmental Woes: Peace Policy for the Future" held at Miranda House, University of Delhi. Delhi-110007. 10.10.2020
- Organizing Committee member for the National Webinar on "Learnings from the Corona Pandemic" held at Miranda House, University of Delhi. Delhi-110007. 24.08.2020 -25.08.2020
- Organizing Committee member for the Symposium" on "Empowering Women in Chemistry; A Global Networking Event" organized by Department of Chemistry at DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007, 12.02.2020
- Organizing Committee member for the "National workshop" on "Nano Road Show-2020" organized by Department of Chemistry, Miranda house, University of Delhi, Delhi-110007. 1.02.2020
- Organizing Committee member for the Symposium" on "Empowering Women in Chemistry; A Global Networking Event" organized by Department of Chemistry at DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007. 12.02.2019
- Organizing Secretary for the One-day "Indo-Hungarian Symposium" on "Recent Advances in Chemistry and Biology" (INHCAB-2017) organized by Department of Chemistry, Miranda House in association with Department of Pharmaceutical Chemistry, University of Debrecen, Debrecen, Hungary, in Miranda House campus, University of Delhi, Delhi-110007, 11.12.17
- Organizing Committee member for the Workshop on "Green Chemistry and Environment" organized by Department of Chemistry at DS Kothari centre for research and innovation in



science education, Miranda house, University of Delhi, Delhi-110007. 06.02.2017-07.02.2017

Seminars/Workshops/Conferences attended:

- Online Short-Term Programme on Research for Resurgence at CPDHE (UGC-HRDC), University of Delhi, Delhi-110007 (7.10.2024-14.10.2024)
- Online Training Programme on "NEP Orientation and Sensitisation" organised by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College under the Malaviya Mission Teacher Training Programme, UGC. 03.08 2024 13.08.2024.
- Participated in International webinar on "Post Covid Challenges and Opportunities for the Chemist" jointly organised by Indian Science Congress Association, Delhi Chapter and Department of Chemistry, University of Delhi, Delhi. 28.12.2021 in Hybrid Mode.
- Participated in Five days Training Programme on "Understanding the vulnerability and risk associated with urban areas" organized by Institute of Disaster Management In collaboration with Centre for Environmental Studies and Disaster Management, Miranda House and Department of Environmental Studies, University of Delhi, India. 23.11.2021 -27.11.2021
- Online Two-week National Faculty Development Program/Refresher course in Chemistry-The Catalyst for Change, organized by Teaching Learning Centre, Ramanujan College in collaboration with Miranda House, under the aegis of Ministry of Education under PMMMNMTT scheme. India. 14.07.2021 - 28.07.2021 Ramanujan_Miranda_FDP-84.
- Online one-week National Faculty Development Program: Academic Report Writing and Research Methodology, organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT scheme. India. 04.03.2021 - 10.03.2021 [Dr. Poonam OFDP39-219]
- Online one-week National Faculty Development Program/Refresher course: Enhancing Quality of Chemistry Education in India, organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT scheme. India. 25.02.2021 -03.03.2021 [Dr. Poonam OFDP38-126]
- Participated in One day national workshop "ICT Tools for Chemistry Teachers, organized Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT scheme. India. 22.02.2021
- Online Refresher Course in Chemistry for higher education faculty-2019-20 by Annual Refresher Programme in Teaching (ARPIT), Ministry of Human Resource Development, Government of India at Delhi. [Roll no. ARP20107575; Application no. 200710003831].
- Participated in national conference on "Technological Empowerment of Women" organized by the national academy of sciences, India (NASI) at Vigyan Bhavan, Delhi. 8.03.2018 to 9.03.2018



- Participated in "India International Science Festival" India International Science Festival, Indira Gandhi Pratishthan, Lucknow, India. 5.10.2018 to 8.10.2018 [Supported by DBT Star College, Miranda House~ 9000]
- Participated in "Bonsai Workshop" organized by Department of Botany, Miranda house, University of Delhi under the DBT Star College Scheme in collaboration with Indian Bonsai Association, New Delhi. 22.03.2018
- Poster Presentation on "New Plasmepsin Inhibitors Targeting Multiple Life Stages of the Malaria Parasite" at International Conference on Emerging Trends in Drugs Development and Natural Products organized by Department of Chemistry, University of Delhi, Delhi, India. 12.01.2018 to 14.01.2018.
- Participated as Teacher Mentor in the Inspire Internship Programme 2017, innovation in science pursuit for inspired research, an initiative of Department of Science and Technology, Government of India, organized by DS Kothari centre for research and innovation in science education held at Miranda house, University of Delhi, Delhi-110007. 18.12.2017-22.12.2017
- Participated in Workshop on "catalyzing a cultural shift in youth entrepreneurship" held at DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007. 09.11.2017
- Participated in national conference on "recent advances in chemical sciences towards green and sustainable environment; swachh bharat abhiyaan perspective organized by Aditi Mahavidyalaya, University of Delhi, Delhi. 10.10.2017 to 11.10.2017
- Participated in Workshop on "Active Learning as a Transformational Tool for the University Classroom" held at DS Kothari centre for research and innovation in science education, Miranda house, University of Delhi, Delhi-110007. 15.05.2017
- Poster Presentation on "Design and Synthesis of Functionalized Organic Inorganic Hybrid Nanomaterials and its Application in Biomass Conversion Process" organized by Material Research Society in 2017 MRS Spring Meeting at the Phoenix Convention Center and Sheraton Grand Phoenix Hotel in Phoenix, Arizona. USA, April 17-21, 2017 [Supported by UGC ~ 2,20,000]
- Participated in Indo-UK scoping Workshop on "Development of Rural Biorefineries In India: From Waste to Wealth" Department of Chemistry, University of Delhi, Delhi, India. 20.02.2017
- Orientation Programme (OR-86) on the topic of Indian and western aspects of identity from 25th November 2016 to 23rd December 2016, at CPDHE (UGC-HRDC), University of Delhi, Delhi-110007
- Participated in Indo-Portuguese Workshop on "Emerging Trends of Nanotechnology in Chemistry and Biology" Department of Chemistry, Hansraj College and Deshbandhu College, University of Delhi, Delhi, India. 12.02.2016 to 13.02.2016
- Paper Presentation on "Importance of catalyst on environmental safety" in the event "Frontiers of Research" in VigZest 2017 at Miranda House, University of Delhi, Delhi, India.
- Participated as a volunteer in "India International Science Festival" Indian Institute of Technology Delhi, Delhi, India. 4.12.2015 to 8.12.2015



- Participated as member of organizing committee for the workshop on "Computational Chemistry and Bioinformatics", Department of Chemistry, Miranda House, University of Delhi, Delhi, India. 26.08.2015 to 28.08.2015
- Participated in national seminar on "Emerging Trends In Higher Education" Commission for Scientific and Technical Terminology, Ministry of Human Resource and Development, Department of Higher Education, Ramakrishnapuram New Delhi, India. 23.07.2015 to 24.07.2015
- Participated in 2nd Indo-German Workshop on "Supramolecular Chemistry" Department of Chemistry, University of Delhi, Delhi, India. 30.03.2015
- Participated in IUCr Workshop on "X-ray diffraction systems and related applications" containing XRD basics, experimental techniques and data analysis using high score plus software held at Department of Chemistry, University of Delhi, Delhi, India. 25.09.2014 to 26.09.2014
- Poster Presentation on "Synthesis of Subphthalocyanines as Photosensitizers for Photodynamic Therapy" at a 20th ISCB International Conference on chemistry and medicinal plants in translational medicine for healthcare. Department of Chemistry, University of Delhi, Delhi, India. 1.03.2014 to 4.03.2014
- Poster Presentation on "Efficient Synthesis of Substituted Metalloporphyrazines as Photodynamic Agents and Its Interaction with Transition Metal Ions." at a Conference on Emerging Trends in Development of Drugs and Devices Department of Chemistry, University of Delhi, Delhi, India. 21.01.2013 to 23.01.2013
- Participated in Indo-German Workshop on "New Perspectives for Nano-Carriers in Biomedical Applications" Department of Chemistry, University of Delhi, Delhi, India. 14.01.2013 to 14.01.2013
- Poster Presentation on "Green Synthesis of Potential Photonic and Optoelectronic Porphyrazines and Its Interaction with Transition Metal Ions" at a 4th Indo-Italian Seminar on Green Chemistry and Natural Products. Department of Chemistry, University of Delhi, Delhi, India. 17.11.2010 to 17.11.2010
- National Conference on Green and Sustainable Chemistry. Birla Institute of Technology and Science, Pilani, Rajasthan. National Pilani, Rajasthan, India. 19.02.2010 to 21.02.2010
- Poster Presentation on "The Reduction of Biologically Active Isoflavones with Sodium Borohydride Catalyzed by Cobalt (II) Phthalocyanines" at aT3D- 2010 International Symposium on Trends in Drug Discovery and Development. Department of Chemistry, University of Delhi, Delhi, India. 5.01.2010 to 8.01.2010
- Poster Presentation on "Synthesis of Subphthalocyanines as Photosensitizers for Photodynamic Therapy" at a 13th ISCB International Conference on Interplay of Chemical and Biological Sciences; Impact on Health and Environment. Department of Chemistry, University of Delhi, Delhi, India. 26.02.2009 to 1.03.2009
- Poster Presentation on "Biomimetic Oxidation of Atrazine with Hydrogen Peroxide Catalysed by Iron(III)Phthalocyanines In Ionic Liquid" at a Indo-Italian Seminar on Green Chemistry and Natural Products. Department of Chemistry, University of Delhi, Delhi, India. 5.12.2008 to 6.12.2008
- Poster Presentation on "Oxidation of Chlorophenols With Hydrogen Peroxide and Related Oxidants Catalysed by Iron(III)Phthalocyanines In Ionic Liquids at a Symposium on Modern



Trends In Inorganic Chemistry "MTIC-III", Indian Institute of Technology Madras, Chennai, India. 2008

- Chemical Research Society of India (CRSI) Sponsored 9th National Symposium in Chemistry. Department of Chemistry, University of Delhi, Delhi, India. 1.02.2007 to 4.02.2007
- Symposium on The Application of Nuclear Magnetic Resonance to Materials and Medicine Department of Chemistry, Indian Institute of Technology Delhi, Delhi, India. 21.11.2006 to 21.11.2006

Synergy (work with other organizations outside the college):

2024-2026	Visiting Assistant Professor, the University of Cyberjaya, Malaysia.
2022-2024	loE Fellow at Delhi School of Public Health, Institute of Eminence,
	University of Delhi, Delhi.
2021-2022	ILLL Fellow at Institute of Life Long Learning, University of Delhi, Delhi
2019-2021	Affiliate Assistant Professor – Loyola University, Chicago, USA
2019	Visiting Fellow, Department of Pharmaceutical Chemistry, University of
	Debrecen, Hungary
2019	CAPES Fellow, Federal Rural University of Pernambuco-UFRPE in
	Recife, Pernambuco, Brazil.
2018-2020	Adjunct-Visiting Senior Researcher, South Ural State University,
	Chelyabinsk, Russia.
2018	Visiting Fellow, Department of Pharmaceutical Chemistry, University of
	Debrecen, Hungary

Awards and Recognitions:

2023	SERB International Research Experience (SIRE) Fellow, SERB, DST,
	Government of India.
2019	Distinguished Investigator Award- International Conference ICBTM-2019, at
	University of Delhi, India
2018	Recognized as Ph.D. Supervisor by Department of Chemistry, University of
	Delhi, Delhi.
2017	International Travel Award [F. No. 6-13/2017(TG)] from UGC, Govt of India.
2009	Senior Research Fellowship, supported by CSIR, Government of India.
2008	Science Meritorious Fellowship, supported by UGC, Government of India.