Curriculum vitae

1. Name: **Dr. Poonam**

   Designation: **Assistant Professor**
2. Department/Institute/University: **Department of Chemistry, Miranda House, University of Delhi, Delhi-110007**
3. Email(s) and contact number(s): **+91-9899125440**

   E-mail - poonam.chemistry@mirandahouse.ac.in , poonamsinghh@gmail.com
4. Date of Birth: **16 August 1983**
5. Gender (M/F) **Female**
6. Category: **General**
7. Whether differently abled (Yes/No): **No**
8. Google Scholar: https://scholar.google.co.in/citations?user=xpgpUq8AAAAJ&hl=en
9. Researchgate: https://www.researchgate.net/profile/Poonam-5
10. Orcid ID: **0000-0002-3759-1057**
11. Academic Qualifications (Undergraduate Onwards)

Sl No.	Degree Awarded	Year	Subject	University/Institution
1.	B.Sc. (H) Chemistry	2003	Chemistry,Maths, Physics, English	Delhi University
2.	M.Sc. Chemistry	2005	Organic Chemistry	Delhi University
3.	M.Phil.	2007	Chemistry	Delhi University
4.	Ph.D.	2011	Chemistry	Delhi University

12. **Ph.D thesis title** : "Synthesis of selected azaporphyrinoids and their applications in catalysis, supramolecular and material chemistry"
    Guide's Name: Prof. Shive Murat Singh Chauhan
    Institute/Organization/University: Department of Chemistry, University of Delhi, Delhi-110007
    Year of Award: 2012

13. **Work Experience:**

S. No.	Institution Place	Position	From (Date)	To (date)
1.	Department of Chemistry, Miranda House, University of Delhi, Delhi-110007	Assistant Professor	23 July 2015	till present
2.	Department of Chemistry, University of Delhi, Delhi-110007	Assistant Professor (ad-hoc)	3 Jan 2013	22 July 2015

14. **Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.**

Positions and Employment

2015- Assistant Professor – Miranda House, University of Delhi, India
2013-2015 Assistant Professor (ad-hoc) – Department of Chemistry, University of Delhi, India

Other Experience/awards and Professional Memberships

2022-2024 IoE Fellow at Delhi School of Public Health, Institute of Eminence, University of Delhi, Delhi.
2021 Editorial Team member, Journal of Molecular Chemistry (SciencesIN JOURNALS) https://pubs.thesciencein.org/journal/index.php/jmc/about/editorialTeam
2021-2022 ILLL Fellow at Institute of Life Long Learning, University of Delhi, Delhi

2021-	Assistant Editor-Medicinal Chemistry; Chemical Biology Letters (SciencesIN JOURNALS) https://pubs.thesciencein.org/journal/index.php/cbl/about/editorialTeam
2020- 2021	Member (32255116) The American Chemical Society, USA
2019-2021	Affiliate Assistant Professor – Loyola University, Chicago, USA
2019- 2021	Coordinator: Life Science Department, Miranda House, University of Delhi, Delhi
2019	Visiting Fellow, Department of Pharmaceutical Chemistry, University of Debrecen, Hungary
2019	Distinguished Investigator Award- International Conference ICBTM-2019, at University of Delhi, India
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	Recognized as Ph.D. Supervisor by Department of Chemistry, University of Delhi, Delhi.
2018	Visiting Fellow, Department of Pharmaceutical Chemistry, University of Debrecen, Hungary
2018-	Member of MH-Vatavaran, Miranda House, University of Delhi, Delhi
2017- 2018	Guest Editor: Current Topics in Medicinal Chemistry (Bentham Science Publishers)
2017- 2018	Guest Editor: Chemical Biology Letters (SciencesIN JOURNALS)
2017- 2018	International Travel Award [F. No. 6-13/2017(TG)] from UGC, Government of India.
2017-	Life Member (L32927), The Indian Science Congress Association, Kolkata, India.
2016-2018	Member of Placement Cell, Miranda House, University of Delhi, Delhi
2016-	Jury Member, DST Inspire Programme by Ministry of Science & Technology, Govt. of India
2009	Senior Research Fellowship, supported by CSIR, Government of India.
2008	Science Meritorious Fellowship, supported by UGC, Government of India.

15. Publications *(List of papers published in SCI Journals, in year wise descending order)*

Book Chapter: **2**	Research/Review Papers: **44**	Citations: **512**
Patents (Indian): **1**	US Patent: **2,** One (Provisional Accepted) One Filed	h-index:**11** i10-index:**11**

Publications

2022	Kumar, Sumit; Sharma, Neha; Dantas, Willyenne; Nascimento, Jessica Catarine Frutuoso do; Maus, Hannah; Oliveira, Ronaldo; Pandit, Unnat; Singh, Agam Prasad; Schirmeister, Tanja; Hazari, Puja; Pena, Lindomar; **Poonam***; Rathi, Brijesh* A potent candidate against Zika virus infection: Synthesis, bioactivity, radiolabelling and biodistribution studies. 2022 NJC Accepted (IF, 3.92; Royal Society of Chemistry; ISBN/ISSN 1144-0546)
2022	Neha Sharma, Himanshi, Manoj Kumar, Unnat Pandit, **Poonam**, Brijesh Rathi, Immaculate mechanochemical grinding facilitates hassle free sustainable synthesis of N-substituted amines.2022 OBC DOI: 10.1039/D2OB01148D 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), 355 (ScienceINPublishing; ISBN/ISSN 2394-0867)
2022	Singh, Vigyasa; Hada, Rahul; Jain, Ravi; Vashistha, Manu; Kumari, Geeta; Singh, Snigdha; Sharma, Neha; Bansal, M.; **Poonam**; Zoltner, M.; Caffrey, Conor; Rathi, Brijesh; Singh, Shailja. 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)
2022	Yash Gupta, Neha Sharma, Snigdha Singh, Jesus G Romero, Vinoth Rajendran, Reagan M. Mogire, Mohammad Kashif, Jordan Beach, Walter Jeske, **Poonam**, Bernhards R. Ogutu, Stefan M. Kanzok, Hoseah M Akala, Jennifer Legac, Philip Rosenthal, David J Rademacher, Ravindra Venkata Durvasula, Agam P Singh, Brijesh Rathi*, Prakasha Kempaiah* The multistage antimalarial compound Calxinin pertuberates P. falciparum Ca^{2+} 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-2021. Drug Discov. Today 2022, 27 (5), 2015-2027. https://doi.org/10.1016/j.drudis.2022.02.004 (IF, 8.36; Elsevier; ISSN: 1359-6446)
2022	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. https://pubs.rsc.org/en/content/articlelanding/2021/nj/d1nj04198c/unauth (IF, 3.92; Royal Society of Chemistry; ISBN/ISSN 1144-0546)
2022	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, 12.38; 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, 4.03; Royal Society of Chemistry; ISBN/ISSN 2046-2069)
2021	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 J. Mater. Nanosci. 2021,8 (2), 64-82. https://pubs.thesciencein.org/journal/index.php/jmns/article/view/260 (ScienceINPublishing; ISBN/ISSN 2394-0867)
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, 3.47; Elsevier; ISBN/ISSN 0968-0896)
2021	Kumar, S.; Gupta Y.; Zak, S. E.; Upadhyay, C.; Sharma, N.; Herbert, A. S.; Durvasula, 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, 3.47; 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)
2021	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, 5.23; 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, 4.64; Elsevier; ISBN/ISSN 1046-2023)
2021	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, 5.23;; Taylor & Francis; ISSN, 1538-0254).
2020	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, 4.03; Royal Society of Chemistry; ISBN/ISSN 2046-2069)
2020	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, 4.13; ACS Publications; ISBN/ISSN 2470-1343)
2020	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, 8.36; 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, 6.16; 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] DOI: 10.2174/1568026620999200305144319 (IF, 3.57; Bentham Science; ISBN/ISSN 1568-0266)
2020	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, 7.05; 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, 3.57; Bentham Science; ISBN/ISSN 1568-0266)
2020	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: 4.83; 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: 5.21; 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, 4.03; 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, 3.92; Royal Society of Chemistry; ISBN/ISSN 1144-0546)
2019	Singh, S.; Rajendran, V.; He, J.; Singh, A. K.; Achieng, A. O.; Vandana; Pant, A.; Nasamu, A. S.; Pandit, M.; Singh, J.; Quadiri, A.; Gupta, N.; **Poonam**; Ghosh, P. C.; Singh, B. K.; Narayanan, L.; Kempaiah, P.; Chandra, R.; Dunn, B. M.; Pandey, K. C.; Goldberg, D. E.; Singh, A. P.; Rathi, B., Fast-Acting Small Molecules Targeting Malarial Aspartyl Proteases, Plasmepsins, Inhibit Malaria Infection at Multiple Life Stages. ACS Infect. Dis. 2019**,** 5 (2), 184-198. https://pubs.acs.org/doi/10.1021/acsinfecdis.8b00197 (IF, 5.57 ; ACS Publications; ISBN/ISSN: 0022-1899)
2018	**Poonam**; Gupta, Y.; Gupta, N.; Singh, S.; Wu, L.; Chhikara, B. S.; Rawat, M.; Rathi, B., Multistage inhibitors of the malaria parasite: Emerging hope for chemoprotection and malaria eradication. Med. Res. Rev. 2018**,** 38 (5), 1511-1535 https://doi.org/10.1002/med.21486 (IF, 12.38; Wiley; ISBN/ISSN: 1098-1128)
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, 3.57; 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, 3.46; 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)
2014	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, 2.03, 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, 3.92 ; 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, 6.06; Royal Society of Chemistry; ISBN/ISSN 1359-7345)

Papers as referred articles in major conference proceedings

1. Sumit Kumar, Sonu Kumar, Prem P Sharma, Atul, Prakasha Kempaiah, Brijesh Rathi, **Poonam 2019** Development of substituted guanidino-oseltamivir as potent against influenza virus targeting neuraminidase activity Conference; American Journal of Tropical Medicine and Hygiene, 101, 73 Publisher AMER SOC TROP MED & HYGIENE
2. Brijesh Rathi, Jiang He, **Poonam**, Kailash C Pandey, Daniel E Goldberg, Agam P Singh, Prakasha Kempaiah **2019** Multistage antimalarial activity of new chemical libraries targeting multiple proteases.
   Conference American Journal of Tropical Medicine and Hygiene, 101, 93 Publisher AMER SOC TROP MED & HYGIENE
3. Neha Sharma, Prem P Sharma, **Poonam**, Prakasha Kempaiah, Agam P Singh, Brijesh Rathi **2019** Discovery of new inhibitors of plasmepsins targeting multiple life stages of the malaria parasite Conference: American Journal of Tropical Medicine and Hygiene, 101, 92 Publisher AMER SOC TROP MED & HYGIENE

Editorials

1. Rathi B, Kumar Y, Kumar S, **Poonam**. Molecules Effective against Infectious Diseases – Part II. *Curr Top Med Chem*. **2018**;18(23):2007.
2. Rathi B, Kumar Y, Kumar S, **Poonam**. Anti-infectious Drugs: Approaches and Achievements – Part I. *Curr Top Med Chem*. **2018**;18(22):1925.
3. Rathi B, Feletrov Y, Latha N, **Poonam**, Vladimir S. New Avenues in Controlling Infectious Diseases. *Curr Top Med Chem*. **2017**;17(18):2005.
4. Rathi B, **Poonam.** Special issue: Infection Diseases. *Chem. Biol. Lett.* **2017;** 4 (1): 20-26.

16. Detail of patents.

1. 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 Publication No. US 2022/0204458 A1; Publication Date: 30 June 2022; Application no. 17/347720, 15 June 2021**
2. 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**
3. Brijesh Rathi Prakasha Kempaiah, Agam P. Singh, Snigdha Singh, Yash Gupta, Neha Sharma, **Poonam**, Ravi Durvasula **Indian Patent Application is 202011056923, filed on December 29, 2020** Title of Invention: Hydroxyethyl amine based piperazine compounds and methods of producing and using the same for treating disease.

17. Books/Reports/Chapters/General articles etc.

1. Poonam (2017) (1st ed). Indian and Western Aspects of Identity, Shree Kala Prakashan, Delhi. [Edited by: Prof. Geeta Singh] [ISBN ISBN: 978-9385329-21-0, Current Scenario of Malarial Chemotherapeutics, Pg. 146-156]
2. 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]