Dr. Rathi obtained Ph.D. degree in Chemistry from University of Delhi and currently working as Assistant Professor of Chemistry at Hansraj College University of Delhi, India. He was awarded *Young Scientist Fellowship*, *Early Career Research Award* from SERB-DST, Government of India; *CAPES-Print Fellowship* from Ministry of Education Brazil; and *Excellence Award for In Service Teachers* (2018) from University of Delhi. He obtained post-doctoral training in the group of Prof. Alexander Klibanov at *Massachusetts Institute of Technology* (M.I.T.), USA. He also acquired training as an Environment Health and Safety (EHS) Representative from MIT. Dr. Rathi is a Visiting Professor (2019-2022) at University of Debrecen, Hungary to conduct short-term courses for undergraduate and doctoral students. He successfully completed several joint bilateral research projects on drug discovery. He recently won a collaborative BRICS grant on therapeutic development against COVID-19 from DST, Government of India.

Dr. Rathi is a growing researcher and accomplishing international reputation of excellence in medicinal chemistry and drug discovery. Dr. Rathi has supervised two doctoral, five undergraduate research students in the past, and currently supervising four doctoral students. He has published more than 94 papers in peer-reviewed journals of National and International repute. Dr. Rathi holds the position of *Section Editor* for Current Topics in Medicinal Chemistry, and Associate Editor for Chemical Biology Letters. His persistent determinations headed the establishment of *Har Gobind Khurana Centre for Chemical Biology* (HC2B) and *Gurudutt Vidyarthi Centre for Translational Chemistry & Drug Discovery* at Hansraj College premises, University of Delhi.

**About research:** My passion for medicinal chemistry & drug discovery fosters me to make significant contributions towards the development of safe, cost-effective therapeutics for the infectious diseases of poverty (*i.e.*, malaria, leishmaniasis and schistosomiasis), analysis of structure-activity relationship and hit to lead optimization. Malaria is a life-threatening mosquito-borne blood disease affecting humans and hence leading the cause of mortality in the tropical and sub-tropical areas. The paucity of new effective drug molecules and the inevitable drug resistance of the malaria parasite, against frontline drugs are the foremost struggles facing malaria eradication initiatives. The search of new molecules killing the parasite at the liver stage, the asexual blood stage, the gametocyte stage, and the insect ookinete stage of the parasite life cycle (*i.e.*, multi-stage activity) is intriguing area of our ongoing research. In the initial phase of my research, I began with an independent DST young scientist project and accomplished the synthesis of the novel phthalimide based compounds and assessed their chemical composition effective as the antiplasmodial agents on *Plasmodium falciparum* in cell-based assays. COVID-19 pandemic spreads rapidly around the globe and efforts are/have been made to aggressively tackle the novel coronavirus, however 46% of countries reported disruptions in malaria diagnosis and treatment. Thus, sincere efforts need to be carried out to tackle such pandemics without neglecting other killer diseases. A portion of our research is also focused on a multinational collaborative BRICS grant towards drug discovery against COVID-19. As a Principal Investigator on these grants, I am progressing to achieve the objectives and leading the projects in right directions. As such, our multi-year collaborative efforts working closely with an interdisciplinary team have led to the synthesis and development of a potent multi-stage antimalarial compound (Calxinin) with preliminary results showing favorable pharmacokinetic properties. Having demonstrated a history of successful and productive research outcomes, my expertise as a medicinal chemist and enthusiasm are set to support and execute the drug discovery projects at IoE- Delhi School of Public Health.

[**Google Scholar**](https://scholar.google.com/citations?user=7BNJyhIAAAAJ&hl=en)[**Vidwan**](https://vidwan.inflibnet.ac.in/profile/292386)