

Prof. (Dr.) Rahul Sharma

M.Pharmacy, Ph.D

Principal

Gateway College of Pharmacy, Delhi-NCR, Sonipat

Email: principal.gcp@gateway.edu.in

Orchid ID: 0009-0002-8151-9359

LinkedIn Profile: <https://www.linkedin.com/in/dr-rahul-sharma-a86107126>

Publications

- Jitender Madan, Ashish Baldi, Ravi S.Pandey and **Rahul Sharma**. Parkinsonism:-History and Novel Biotech Approach Journal of Science and Pharmacy 2002; 3(2) 62-65.
- P. Sharma, **Rahul Sharma** and S. Sardana, Studies on some fungal inhibitory chemicals for chrome tanning, Journal of Science and Pharmacy 2002; 3(3) 85-91.
- P. Sharma, **Rahul Sharma** and S. Sardana, In vitro production of proteolytic enzymes by fungi Journal of Science and Pharmacy 2003; 4(2) 54-56.
- Jitender Madan, S. Sardana and **Rahul Sharma**. DNA Microarray: Technique for gene profiling Journal of Science and Pharmacy 2004; 5(1) 5-8.
- Jitender Madan, S. Sardana, **Rahul Sharma** and Dinesh Kaushik. DNA Vaccine: Mechanistic insight and delivery strategies. Hamdard Medicus 2009; 52(1) 81-86.
- Sharma M,**Rahul Sharma**. Silver nanoparticles conjugated with ciprofloxacin Hcl to combat bacterial resistance via topical drug delivery system World Journal of Pharmacy and Pharmaceutical Sciences 2019; 8(10)611-623.
- Pooja, **Rahul Sharma**. Design and development of solid lipid nanoparticles of Telmisartan for targeting Prostate Cancer; World Journal of Pharmacy and Pharmaceuticals Sciences. 2019; 8(11) 1341-1353
- **Rahul Sharma**, Satish Sardana and Jitender Madan, Telmisartan-Poly (ethylene glycol) conjugate augmented drug dissolution and permeability in cervical cancer cells. Journal of Drug delivery & Therapeutics 2019; 9(1) 358-361.
- **Rahul Sharma**, Satish Sardana and Jitender Madan, Telmisartan loaded solid lipid nanoparticles augmented cytotoxicity in cervical cancer cells. Journal of Drug delivery & Therapeutics 2019; 9(2): 612-624.
- Anita Antil, Sukhbir Singh, Neelam Sharma and **Rahul Sharma**. Formulation, Development and Evaluation of Taste masked Anthelmintics chewable tablets by using Fluid Bed Processor Technique. ECS Transactions 107 (1) 9003-9013 (2022)
- Renu Tushir, Bharti Gupta, **Rahul Sharma**, Ajesh Chauhan. A concise review on novel approach for challenging Pharmaceuticals through self-microemulsifying Drug Delivery system. International journal of Pharmaceutical sciences and Research, 2022; 13(12) ;4830-47.
- Parimal Hagde, Purva Pingle, Atul Mourya, **Rahul Sharma**, Jitender Madan. Therapeutic potential of quercetin in diabetic foot ulcer; Mechanistic insight, challenges, nanotechnology driven strategies and future prospects. Journal of Drug Delivery science and Technology 74(2022) 1773-2247.
- Bharti Gupta, **Rahul Sharma**, Formulation and invitro characterization of the solid Lipid Nanoparticles of Naftopidil for enhancing oral Bioavailability. Asian Journal of Pharmaceutical and Clinical Research. 16,(2) 2023 1-6.
- Aditya Jaitley, **Rahul Sharma**, Rizwan Zafar Formulation and evaluation of cefuroxime axetil granules for oral suspension. Asian Journal of Pharmaceutical and Clinical Research.

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- Deepa antil, **Rahul Sharma**, Bharat Bhushan Formulation and invitro characterization of thiocolchicoside prioniosomes for oral delivery Asian Journal of Pharmaceutical and Clinical Research. 16 (4) 1-8

Conferences/ Workshop/ QIP Participation

- Attended APTI sponsored 12th National convention from 25 to 27 October 2007 at University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh.
- Attended symposium on “Controlled Release in Infection and Cancer” on 18 June, 2007 at C.D.R.I., Lucknow.
- Attended IPGA, National seminar on “Recent trends in Pharmaceutical Education and Research” on 29-30 September, 2007 at Sirsa, Haryana.
- Attended 60th Indian Pharmaceutical Congress from 12th to 14th December, 2008 at New Delhi.
- Attended 61st Indian Pharmaceutical congress at Nirma University, Ahmadabad from 11-13 December, 2009.
- Attended AICTE sponsored National Seminar on Emerging Trends in Pharmaceutical Research from 09th to 10th April 2009 at Hindu College of Pharmacy, Sonapat.
- Attended APTI sponsored National Seminar on “Emerging trends in Drug Discovery and Formulation Development” on 21 February, 2009 at Jan Nayak Ch. Devi Lal Memorial College of Pharmacy, Sirsa.
- Attended 14th National convention of Society of Pharmacognosy on “Capacity Building in Herbal Drug Technology – SWOT, Analysis on 20-21 February 2010 at Hindu College of Pharmacy, Sonapat.
- Attended National conference on “Drug discovery development and clinical trials”: current status and the way forward on June 26th-27th 2010 at Solan, Himachal Pradesh.
- Attended, National conference on “Herbal Standardization and Analytical Pharmacognosy from 13-14 November, 2010 at PANDOGA Distt. UNA, Himachal Pradesh.
- Participated in XV-QIP on “Recent Advances in Pharmaceutical Sciences” held during 17- 21 October, 2011 at Delhi Institute of Pharmaceutical Sciences & Research (DIPSAR), Pushp Vihar, New Delhi.
- Attended International Conference on “Recent Advances in Pharmaceutical Sciences transferring knowledge from Education to Practice on 25-26 February, 2012 at Kathmandu University, Dhulikhel, Nepal.
- Attended National conference on “Industry Academia Collaboration on Pharma Sector”: Necessity in present scenario on 6th April, 2013 at Hindu College of Pharmacy, Sonapat
- Attended second Annual conference of SPER on “Next Generation Healthcare Scenario: Innovation Research Endeavor in Pharmaceutical Sciences for better patient compliances” held at convention centre, Jamia Hamdard, Hamdard University, New Delhi on 9th March 2013.
- Participated in Academic staff college interactive workshop as Delegate on “Training Teachers for Tomorrow Need” from 20th to 26th March, 2013 at Kurukshetra University, Kurukshetra.
- Attended 3rd Annual conference of SPER on “Recent trends in Pharma Industry: Bridging the gaps in Pharmaceutical Education” on 8 March, 2014 at Lovely Professional, University, Phagwara, Punjab.
- Attended Second Annual conference of APTI, Haryana State Branch on “Future of Pharmacy Profession: Role of Pharmacy teachers” held on 24 and 25 October 2015 at M.D. University, Rohtak.

- Attended SPER sponsored International conference on next generation medicine from Bench to Bedside at Chandigarh College of Pharmacy, Landran, Chandigarh on 10 & 11th February, 2017.
- Oral Presentation on “Telemisartan as an emerging molecule in cancer therapy” in the National Conference on theme “Regulatory Affairs and Intellectual Property Rights in the Indian Pharmaceuticals Industry” held on November 8, & 9 2019 at Chandigarh College of Pharmacy, Landran Mohali

Webinar Attended

- Attended Webinar on the topic “From Quality Assurance to Quality Enhancement: A Transformation Perspective” organized by Internal Quality assurance cell of the university in association with Indian Education Network, Delhi under co-learning by Shobhit University on 4th July 2020.
- Participated in International Web conference on “Fundamentals & Regulatory Regulations for Pharmaceutical Industry Beginners and COVID 19” organized by operant Pharmacy Federation in collaboration with Dremz College of Pharmacy, Sunder Nagar (H.P.), on 12-13 July, 2020.
- Participated in the webinar on “Long-term impact of COVID-19 Pandemic on healthcare scenario in India” held on 13th July, 2020 organized by Govt. of India, Field outreach Bureau Mysuru, Ministry of Information and Broadcasting in association with Sarata Vilas College of Pharmacy Mysuru & ARDSI, Mysuru.
- Participated in the online webinar on “Quality by Thought (QbT) a paradigm: Target to zero defective generations,” on 14 July, 2020, organized by Godavari Institute of Pharmacy, Kolpa, Latur, Maharashtra.
- Attended webinar on “Risk Assessment and Resolution in Pharma Industry” organized by Krishna Institute of Pharmacy, KIMSDU, Karad on 16th July, 2020. Participated in National webinar on “Career Guidelines after pharmacy...An insight... to espouse becoming an entrepreneur on 18 July, 2020 organized by Nanda College of Pharmacy, Erode
- Actively Participated in webinar on “Antigen Processing and Presentation (MHC I&II Formation) organized by Sree Sastha Pharmacy College, Chennai on 22nd July, 2020.
- Participated in “National webinar on COVID-19 Herbs and Nutraceuticals for strengthening Immunity” organized by Society of Pharmaceutical Sciences and Research (SPSR) on 23rd July, 2020.
- Participated in the Webinar on “Drug Discovery Design and Development:- Challenges & Approaches” on 28th July, 2020 organized by Shaheed Bhagat Singh College of Pharmacy, Amritsar.
- Participated in National webinar on “Pharmaceutical Dosage Forms- An overview” Organized by United College of Pharmacy, Coimbatore on 5th Aug, 2020.
- Participated on the webinar on “Repurposing of Drugs in oncology during COVID-19” Organized by Sarda Vilas College of Pharmacy on 14th August, 2020.
- Actively Participated in the Webinar “Drug Reposition- Transformation of Hard work into smart work” organized by Nirmala College of Pharmacy, Muvattupuzha, Kerala on 22nd August, 2020.
- Attended International webinar on “Global Transformation of Health” Jointly organized by Pharma Tutor Edu Labs and International Pharmaceutical Forum on 25th September, 2020.
- Participated in Webinar on “Innovation Opportunities During and Post COVID Era” held on 26th September, 2020 organized by Amity International Society for Natural Products, Health & Allied Sciences Domain, Amity University, Noida UP.

M. Pharmacy (Pharmaceutics) Students Supervised: 14

- Design and development of solid lipid nanoparticles of Telmisartan for targeting Prostate Cancer (2019)
- Ciprofloxacin loaded silver nanocomposites to overwhelm bacterial resistance (2019).
- Design, development and evaluation of linezolid coupled silver nanoparticles for antibacterial and biofilm targeting activity (2020)
- Design, development and evaluation of linezolid coupled zinc oxide nanoparticles for antibacterial activity (2020)
- Analytical estimation and process validation of conventional tablet dosage form of Ciprofloxacin hydrochloride (2021)
- Development and invitro characterization of Proniosomes of Thiocolchicoside for oral delivery. (2022)
- Formulation and evaluation of Cefuroxime Axetil granules for oral suspension (2022)
- Formulation and invitro characterization of solid Lipid nanoparticles of Naftopidil for enhancing oral Bioavailability (2022)
- Formulation and characterization of ofloxacin-loaded gelatin microspheres (2023)
- Analytical estimation and process validation of conventional tablet dosage form of meloxicam (2023)
- Formulation and evaluation of bilayer tablets of oxcarbazepine for modified release (2023)
- Pazopanib hydrochloride loaded polycaprolactone lecithin hybrid nanoparticles for the effective treatment of breast cancer.
- Development and evaluation of encapsulation dapagliflozin dimethyl beta cyclodextrin inclusion complex for the treatment of breast cancer.
- Formulation and evaluation of bi-layer tablet of oxcarbazepine for modified release.

PhD Students supervising: 02

- Anita Rani (Registration # 2050941013) Nanostructured lipid carrier based gel for topical delivery of drug for psoriasis at Chitkara University, Rajpura, Punjab
- Sunny (Registration # 2311000002160) Enhancement of pharmaceutical characteristics of selected drug using co-crystallization at Swami Vivekanand Subharti University, Meerut (U.P)

Books Published

- Jitender Madan, Ramesh Chandra and **Rahul Sharma**(2018). Silver Nanoparticles in Drug Delivery”From Bench to Bed side.LAP LAMBERT Academic Publishing 17,Meldrum street,Beau Bassin -71504 Mauritius, ISBN:978-613-7-32812-5.
- O.P.Sharma and **Rahul Sharma**(2019) “A Text book of Remedial Biology (As per New PCI Syllabus) Birla Publications, Shahdara, Delhi.
- **Rahul Sharma** and O.P Sharma (2021) Cell and Molecular Biology (As per New PCI Syllabus) for B.Pharma students Birla Publications, Shahdara, Delhi.

Patent

- **Rahul Sharma**, Satish Sardana, Vikas Tushir ; Title- Anti-Diabetic Polyherbal composition and method for synthesis Thereof. **Application No.- IN202311010262 (Published).**
- **Rahul Sharma**; Title-Advanced Biopolymer Composite Materials With IOT Monitoring System. **Application No.- 434938-001 (Published).**

Copyright

- CRISPR-CAS9 and its application in cancer research and therapy (Application No.- 142920).

Book Chapters

- Pawan Devangan, Pankaj kumar singh, Monika Chaudhary, **Rahul sharma**, Neha Bajwa, Ashish Bajdi Kamta prasad Namdeo, Jitender Madan. Drug Delivery; The conceptual perspectives and therapeutic applications. Polymer- drug conjugates:Linker chemistry, protocols and applications. 2023 ,page 1-38
- Shalki Chaudhary, Sheshank Sethi, Rupesh Dudhe, Anshu Dudhe, **Rahul Sharma**,Neha Bajwa, Preet Anmol Singh, Ashish Baldi, Jitender Madan. Chemistry Of Conjugation in Drug Delivery; The prospects of biodegradable bonds in Polymer- drug conjugates:Linker chemistry, protocols and applications. 2023 , page 95-119

Professional Membership

- Life Member, The Association of Pharmaceutical Teachers of India (APTI).
- Life Member, Indian Pharmacy Graduates Association (IPGA)

Research topic and Professional Experience

- **Ph.D Project:**Design and Development of nanoformulation of Telmisartan for Cancer Therapy
- **M.Pharm Project:** Development and **invitro** evaluation of sustained release matrix Tablet of Ciprofloxacin