

## BIO-DATA



**Name** : **Dr. Rakesh Kumar Marwaha**  
**Qualification** : **M.Pharm, Ph.D**  
**Designation** : **Assistant Professor (Selection Grade)**  
**Specialization** : **Pharmaceutical Chemistry**  
**Date of Birth** : **22<sup>nd</sup> November, 1970**  
**Sex** : **Male**  
**Nationality** : **Indian**

### **Contact Details:**

**Official Address** : Department of Pharmaceutical Sciences,  
M. D. University, Rohtak -124001.  
**Residential Address** : H.N. 19 Type III,  
MDU Campus Rohtak -124001  
**Permanent Address** : Vishvakarma Road, Mohalla Simble  
Batala -143505 (Punjab)  
**E-mail** : rkmarwaha.mdu@gmail.com  
**Mobile** : +91 - 9728264391  
**Pharmacist  
Registration No.** : **16378** (Punjab State Pharmacy Council)

### **Educational Details:**

- **Ph.D. (Pharmaceutical Sciences)** from Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak in May, 2015.
- **M.Pharm (Pharmaceutical Chemistry)** from Deptt. Of Pharmaceutical Sciences, Punjabi University, Patiala securing 61% as aggregate in Feb, 1999.

- **B.Pharm** from Y.B.C College of Pharmacy Aurangabad under Dr. B.S.Ambedkar Marathwada University, Aurangabad (M.S.) securing an aggregate of 67.3% in April 1994.

### Professional Experience (Teaching / Industrial)

Teaching	Research	Industrial	Total
15 years 04 month	11 years	06 years 06 months	21 years 10 monts

### Research Publications

- Minakshi Gupta, **Rakesh Kumar Marwaha**, Harish Dureja, 2018. Formulation and characterization of gefitinib-loaded polymeric nanoparticles using Box-Behnken design. *Current Nanomedicine (E-pub Abstract Ahead of Print)*
- Annu Saini, Jyoti, Sweety Ranga, Aakash Deep, **Rakesh Kumar Marwaha**, 2018. Design, synthesis and biological evaluation of N -(substituted benzylidene)- 2/4-(1,3 dioxoisindolin-2-yl)alkanehydrazide. *The Pharma Innovation Journal*, 7(7), 205-214
- Aakash Deep, Rimmi Nandal, Meenakshi Kaushik, S. L. Hoti, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan, 2018. Synthesis of metal complexes of primaquine and *in-vitro* antimalarial evaluation against Plasmodium falciparum, *Current Bioactive Compounds*, 14(4), (E-pub Ahead of Print).
- Aakash Deep, Aashu Rohilla, Gaurav Khurana, **Rakesh Kumar Marwaha**, Prabodh Chander Sharma, Monu Yadav, 2018. Regulatory Success and Challenges for Medical Devices in United States and European Union, *Applied Clinical Research, Clinical Trials and Regulatory Affairs*, 5, (E-pub Ahead of Print).
- Davinder Kumar, Virender Kumar, **Rakesh Marwaha**, Gajendra Singh, 2017. Oxadiazole-An Important Bioactive Scaffold for Drug Discovery and Development Process Against HIV and Cancer- A Review, *Current Bioactive Compounds*, 13(1), (E-pub Ahead of Print).

- Minakshi Gupta, **Rakesh Kumar Marwaha**, Harish Dureja, 2017. Development and characterization of gefitinib loaded polymeric nanoparticles by ionic gelation method, *Pharmaceutical Nanotechnology*, 5, 1-9.
- Sanjiv Kumar, Pradeep Kumar, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan, 2017. Synthesis, antimicrobial evaluation and QSAR studies of propionic acid derivatives, *Arabian Journal of Chemistry*, 10 (1), S881–S893.
- Parijat Pandey, **Rakesh Kumar Marwaha**, Arun Nanda and Harish Dureja, 2016. Spray-Dried Nanoparticles-in- Microparticles System (NiMS) of Acetazolamide Using Central Composite Design, *Nanoscience & Nanotechnology-Asia*, 6(1), 146-56.
- Bhupender Singh, Arun Nanda, Vikaas Budhwar, **Rakesh Kumar Marwaha**, 2016. A comparative evaluation of the quality & price of generic medicine with their branded counterparts, *Pharmatutor*, 4(10),43-49.
- Shinky Mehta, **Rakesh Kumar Marwaha**, Pradeep Kumar, Balasubramanian Narasimhan, 2015. A review on biological activities of quinazoline derivatives in the new millennium, *Pharmaceutical Chemistry Journal*, In press
- Mundlia Jyoti, **Marwaha Rakesh Kumar**, Dureja Harish, 2015. Box-Behnken Designed Dual-Drug Resinate Complex For Taste Masking of Levocetirizine Dihydrochloride and Montelukast Sodium, *Pharmaceutical Technology*, 39(6), 28-48.
- Minakshi Gupta, Jyoti Dahiya, **Rakesh Kumar Marwaha**, Harish Dureja, 2015. Therapies in cancer treatment: an overview. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(4), 1-9.
- Minakshi Gupta, Goswami K, **Rakesh Kumar Marwaha**, Harish Dureja, 2014. Safety and Antitumor Activity of Gefitinib: An Overview, *International Journal of Pharmaceutical Sciences and Research*, 5(11), 4129- 40.
- **Rakesh Kumar Marwaha**, Harish Jangra, Kinkar C. Das, P.V.Bharatam and A.K. Madan, 2014. Path eccentricity based highly discriminating molecular descriptors for

QSAR/QSPR Part-I: development and evaluation, *International Journal of chemical modeling*, 6(4), 531-56.

- **Rakesh Kumar Marwaha**, Anil Kumar Madan, 2014. Path eccentricity based highly discriminating molecular descriptors for QSAR/QSPR Part -II: Application in development of models for prediction of a biological activity, *International Journal of chemical modeling*, 6(4), 557-79.
- Komal Goswami, Gaurav Khurana, **Rakesh Kumar Marwaha**, Minakshi Gupta, 2014. Development and evaluation of extended release ethylcellulose based matrix tablet of Diclofenac sodium, *International Journal of Pharmacy and Pharmaceutical Sciences*, 6(6); 296-301
- Sakshi Dhall, Komal Goswami, Gaurav Khurana, **Rakesh Kumar Marwaha**, Priti Mehndiratta, Minakshi Gupta, 2014. Development and evaluation of parenteral dosage form for anticancer activity, *World Journal of Pharmacy and Pharmaceutical Sciences*. 3(8), 1529-1534.
- Arun Kumar Chopra, **Rakesh Kumar Marwaha**, Deepak Kaushik, Harish Dureja, 2014. Box-Behnken Designed Fluconazole Loaded Chitosan Nanoparticles For Ocular Delivery, *Journal of Pharmaceutics and Drug Delivery Research*, 3(1), doi:10.4172/2325-9604.1000121.
- Preeti Garg, Parijat Pandey, Praveen Rewri, **Rakesh Kumar Marwaha**, Harish Dureja, 2014. Box-Behnken Designed Nanoparticles-In-Microparticles System (Nims) For Formulating Mouth Dissolving Tablets of Acetazolamide, *Journal of Pharmaceutical Research*, 13(3), 74-79.
- Pritam Singh, **Rakesh Kumar Marwaha**, Arun Nanda, 2014. A comparative evaluation of branded and generic versions of Levocetirizine and Cephalexin , *Asian Journal of Pharmaceutical Technology & Innovation*, 2(9) 01-06.
- **Rakesh Kumar Marwaha**, Anil Kumar Madan, 2014. Fourth generation detour matrix based topological descriptors for QSAR/QSPR Part -II: Application in development of models for prediction of biological activity, *International Journal of Computational Biology and Drug Design*, 7(1), pp 1-30.

- Shinky Mehta, Pradeep Kumar, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan, 2014. Synthesis, antimicrobial evaluation and QSAR studies of 2-chlorobenzoic acid derivatives, *Drug Research (Arzneimittelforschung)*, 64(4), 208-213.
- Rattan Lal, **Rakesh Kumar Marwaha**, Deepti Pandita and Harish Dureja (2013) Formulation and Optimization of 5-Fluorouracil Loaded Chitosan Nanoparticles Employing Central Composite Design, *Drug Delivery Letters*, 2(4), 281-289.
- **Rakesh Kumar Marwaha**, Harish Jangra, Prasad V. Bharatam, Kinkar C Das, Anil Kumar Madan, 2012. Fourth generation detour matrix based topological indices for QSAR/QSPR part-1: development and evaluation, *International Journal of Computational Biology and Drug Design*, 5(3/4), 335-360.
- Seema Rohilla, Ankur Rohilla, **Rakesh Kumar Marwaha**, Arun Nanda, 2011. Biopharmaceutical classification System: A strategic tool for classifying drug substances, *International Research Journal of Pharmacy*, 2(7), 53-59.
- Seema Rohilla, **Rakesh Kumar Marwaha**, Girdhari Lal Singal, Arun Nanda, 2011. Quality of branded-generics versus branded products for Amoxicillin trihydrate and Potassium clavulanate tablets *International Research Journal of Pharmaceutical Sciences*, 02(01), 0005-008.
- Vipin Sharma, **Rakesh Kumar Marwaha**, Harish Dureja, 2010. Permeability Evaluation Through Chitosan Membranes Using Taguchi Design *Scientia Pharmaceutica*, 78, 977-983.
- Minakshi Marwaha, Deepak Sandhu, **Rakesh Kumar Marwaha**, Coprocessing of excipients: a review on excipient development for improved tableting performance, *International Journal of Applied Pharmaceutics*, 2010, 2 (3) 41-47.
- Minakshi Marwaha, **Rakesh Kumar Marwaha**, Jyoti Wadhwa, Satyanarayan SV Padi, 2010. A Retrospective Analysis on a Survey of Handwritten Prescription Errors in General Practice. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2(3), 80-82.

- Minakshi Gupta, PRP Verma, **Rakesh Kumar Marwaha**, Abdul Faruk, Gajendra Singh, 2008. Formulation and evaluation of meloxicam gel. *Journal of Pharmaceutical Research*,7(1), 27-31.
- Satyanarayana S.V. Padi, Minakshi Gupta, Jatinder K. Kehal, Ashish Aggarwal, Neeraj Kumar, **Rakesh K. Marwaha**, 2008. Evaluation of Topical Gels Containing Non-Steroidal Anti-Inflammatory Drugs on Inflammation and Hyperalgesia in rats: *The Internet Journal of Pharmacology*, 6(1).

#### **Book Chapter Published:**

- **Rakesh Kumar Marwaha**, Harish Dureja, A.K. Madan. (2017). “Current status of topology based molecular descriptors” in: M.V. Putz (Ed.), *Explicative Dictionary of Nanochemistry*, Apple Academic Press & CRC Press of Taylor & Francis – in press.
- Minakshi Gupta, **Rakesh Kumar Marwaha**, Harish Dureja. (2016). “Polymeric Nanoparticles for Cancer Treatment” in: Dureja, H. (Ed), *Nanoparticles for the delivery of anticancer agents*, Lap Lambert Academic Publishing, Germany, pp 19-49.
- Ritika, **Rakesh Kumar Marwaha**, Sanjeev Kumar, Pradeep Kumar, Balasubramanian Narasimhan. (2014). “Biological activities of indole derivatives in the new millennium” in: Narasimhan B. (Ed), *21<sup>st</sup> Century: The era of heterocyclic compounds in medicinal Chemistry*, Lambert Academic Publishing, Germany, pp 121-140.
- Sanjeev Kumar, Pradeep Kumar, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan. (2013 ) “A comprehensive review on biological activities of gallic acid derivatives” in: Narasimhan B. (Ed), *Medicinal chemistry of heterocyclic/natural compounds*, Lambert Academic Publishing, Germany, pp 88-103.

#### **Poster Presentations/oral presentations in conferences and Seminars:**

- Attended UGC sponsored national seminar on Biodiversity: Status and significance organized by Department of Botany, MDU Rohtak on March 21, 2017.

- Minakshi Gupta, Komal Goswami, **Rakesh Kumar Marwaha**, Harish Dureja. An overview of Gefitinib: A promising anticancer drug. Scientific Poster Presentation in 18th Annual Convention of Society of Pharmacognosy – ISP 2014. Maharshi Dayanand University, Rohtak, INDIA. February 21-22, 2014
- Sneh Lata, Shinky Mehta, Pradeep Kumar, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan, Synthesis, antimicrobial and anticancer evaluation of n-[2-(4-chloro-phenyl)-4-oxo-4h-quinazolin-3-yl]-2-(substitutedphenylamino)-acetamide derivatives, IPGA national convention on November 17- 18, 2012, held at Kurukshetra university, Kurukshetra [Abstract no. IPGANC-146].
- Sanjiv Kumar, Pradeep Kumar, **Rakesh Kumar Marwaha**, Balasubramanian Narasimhan, Synthesis, antimicrobial, anticancer evaluation and QSAR studies of 3,4,5-trihydroxy benzoic acid derivatives, IPGA national convention-17- 18 November 2012, held at Kurukshetra university, Kurukshetra [Abstract no. IPGANC-145].
- Sanjiv Kumar, **Rakesh K. Marwaha** and Balasubramanian Narasimhan, Synthesis of different esters and Schiff's bases of propionic acid, Abstract no. PH-106, Page No. 24, AICTE sponsored national seminar on "Evolving Role of Pharmacist in Drug Discovery and Development" March 16-17, 2012 at GVM College of Pharmacy, Sonapat.
- Shinky, **Rakesh K. Marwaha** and Balasubramanian Narasimhan, Synthesis and antimicrobial evaluation of different esters and Schiff's bases of 2-chloro benzoic acid, Abstract no. PH-103, Page No. 21, AICTE sponsored national seminar on "Evolving Role of Pharmacist in Drug Discovery and Development" March 16-17, 2012 at GVM College of Pharmacy, Sonapat.
- Sharma M, Saraf M. K., **Marwaha R. K.**, Saraf G, Bhardwaj N, Kumar D, Arora A, Herbal Drugs: Discovery of novel molecules for neurodegenerative disorders- Scientific Poster Presentation in 12<sup>th</sup> annual national convention of Indian Society of Pharmacognosy at Moga, February 23- 24, 2008.

- Gupta M., Verma PRP, **Marwaha R.K**, Comparison of different concentrations of gelling agents in relation to meloxicam topical delivery; in vitro- in vivo correlation –Scientific Oral presentation in 10<sup>th</sup> Punjab Science Congress conducted in Jalandhar, Feb 7-9, 2007.
- Khurana B., Arora D., Marwaha M., **Marwaha R.K**, Padi SSV, Current strategies to deliver drugs to the brain – Scientific Poster Presentation in IPGA National Seminar on ‘ Recent Trends in Pharmaceutical Education and Research, September 29-30, 2007.
- Marwaha M, Gupta G, Madaan I, **Marwaha R.K**, Padi SSV, Pharmacodynamic investigation of some marketed gels containing nonsteroidal anti-inflammatory drugs on experimental inflammation and related hyperalgesia- Scientific Poster Presentation in 59<sup>th</sup> IPC, 2007 conducted at BHU, Varanasi.
- Khurana B, Arora D, Marwaha M, **Marwaha R.K**, Padi SSV, A survey of handwritten prescription errors in general practice: A retrospective analysis- Scientific Poster Presentation in 59<sup>th</sup> IPC, 2007 conducted at BHU, Varanasi.

#### **Conferences / Training Programmes / Guest Lectures:**

- Acted as Joint Organizing Secretary in UGC sponsored one day national conference cum awareness program on “Protection of Intellectual Property Rights –Need of the Hour” organized by Deptt. of Pharm. Sciences, M.D.University,Rohtak on May 10, 2018.
- Participated in UGC Sponsored Refresher Course in ICT from 17 May 2018 to 7 June 2018 organised at UGC-HRDC, B.P.S. Mahilla Vishwavidyalaya, Khanpur Kalan.
- Resource person/Poster evaluator in the International Conference “PHYTOCON-2018” on “Commercialization of Medicinal Plant Products: Lab Techniques in Trade” held on April 14, 2018; organized by School of Pharmaceutical Sciences, Lovely Professional University, Punjab
- Resource person/Poster evaluator in the scientific session at the 69<sup>th</sup> IPC, organized by Indian Pharmaceutical Congress Association (IPCA) and Association of



Pharmaceutical teachers of India (APTI) held at Chitkara University, Rajpura from December 22-24, 2017

- Delivered lecture in National conference cum workshop organized by Department of Pharmaceutical Sciences, M.D.U., Rohtak on the theme “Hands on Training on Chromatographic Techniques on December 12, 2017.
- Chaired a technical session in a two days interdisciplinary international conference on “Role of Digitalization in Sustainable Development: A Global Perspective” organized by Department of Education, Maharshi Dayanand university, Rohtak on September 16-17, 2017.
- Co-chaired the session in DST Haryana sponsored Swarna Jayanti One day National seminar on Awareness on Intellectual property rights organized by Pt. B.D. Sharma University of health Sciences, Rohtak on March 17, 2017.
- Acted as Resource person in one day workshop on Method Development Techniques in HPLC and HPTLC organized by Deptt. of Pharm. Sciences and DSW, MDU.Rohtak on Nov 16, 2016.
- Attended National Conference on “Drug Safety and Pharmacovigilance” organized by Guru Gibind Singh College of Pharmacy, Pt. B. D. Sharma University of Health Sciences on December 6, 2015.
- Participated in three days National workshop on Drug Design, Molecular Docking, Virtual Screening and Pharmaco-informatics organised by Centre for Pharmaceutical Sciences and Natural Products, Central University of Punjab, Bathinda on November 26-28, 2015.
- Participated in UGC Sponsered Refresher Course in Pharmaceutical Sciences from 17 May 2012 to 7 June 2012 organised at UGC Academic staff college B.P.S. Mahilla Vishwavidyalaya, Khanpur Kalan.
- Delivered a Lecture on “Development and Validation of Reverse Phase Chromatographic Methods: A general Approach” at National Symposium on “Scope, Innovations and challenges in Pharmacy Profession” at Shri Baba Mast Nath

Institute of Pharmaceutical Sciences March 30, 2012.

- Attended 2<sup>nd</sup> National Seminar on “Microbes in Humane Welfare” organized by Department of Microbiology, M.D.U. Rohtak and Association of Microbiologists of India-Rohtak Unit on 24<sup>th</sup> March 2012.
- Attended 1<sup>st</sup> National Seminar on “Microbes and Resource Management” organized by Association of Microbiologists of India-Rohtak Unit on 22<sup>nd</sup> October 2011.
- Acted as Resource person in AICTE sponsored Staff Development Programme on Lecture Design and Delivery Methodologies on 29<sup>th</sup> Nov-11<sup>th</sup> Dec 2010 at Ram Gopal College of Pharmacy, Gurgaon, Haryana.
- Attended National workshop on Bioinformatics held on September 14-16, 2010 at Centre for Biotechnology, Maharshi Dayanand University, Rohtak.
- Acted as Resource person in Staff Development Programme on *Recent Developments in Herbal Drug Research*, March 17-31, 2008 at ISF College of Pharmacy, Moga
- Attended 12<sup>th</sup> Annual National ISP Convention on February 23-24, 2008 at ISF College of Pharmacy, Moga.
- Attended AICTE sponsored National Seminar on *Newer extraction and Standardization techniques for Herbal Drugs and Herbal Formulations* on 10<sup>th</sup> and 11<sup>th</sup> March 2007 at ISF College of Pharmacy, Moga.
- Attended AICTE sponsored STTP on *Recent Advances in Pharmaceutical Instrumentation* organized by Indian Society for Technical Education held at University College of Pharmaceutical Sciences Warangal (A.P) from 24<sup>th</sup> Feb to 5<sup>th</sup> March, 2004

#### **Academic and Administrative Committees**

- Warden, Udaigiri Hostel (B.H.No. 5), M. D. University. Rohtak-124001.
- Member Academic council, M. D. University. Rohtak-12400.
- Member, Departmental Grievance Committee and Anti-Ragging Committee.

- Life Member, Indian Pharmacy Graduate Association

### **Professional Achievement**

- Govt. Approved Manufacturing Chemist vide Letter No. Drugs(3)-Pb-02/17587 in the following sections
  - Tablets
  - Capsules
  - Small volume Parenteral (Biological & Non-Biological.)

(Rakesh Kumar Marwaha)