

Bio Data

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Summary profile

- >20 years of professional experience, ability to work both as individual and in a team. Presently working at a responsible position with sound understanding of functioning of academic institutions and quality control aspects.
- Strongly believe that education must train the incumbents not only with technical skills but also inculcate moral/ethical values and prepare them as future ready professionals with innovation and skill set and as responsible citizens.

Administrative positions held

- Dean, Faculty of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak (January 8, 2018 to January 07, 2021)
- Member, Executive Council, Maharshi Dayanand University, Rohtak (April 2019 to January 2021)
- Director, Internal Quality Assurance Cell (IQAC), Maharshi Dayanand University, Rohtak. (January 2019 to May 2020). The University secured NAAC A+ Grade during this tenure.
- Head, Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak (from November 2015 to November 2018). The department secured All India Rank 28th in Pharmacy category in NIRF in 2017 as all time high rank.

- Member (elected), Executive Council, Maharshi Dayanand University, Rohtak (from July 2013 to December 2014)
- Member steering committee, NAAC Accreditation of the University (from November 2017 to March 2019). The University secured A+ Grade by NAAC in March 2019.
- Member of the various committees regarding policy making and administrative aspects of the University like, Admission committee, PhD Ordinance, IPR policy, Research promotion committee, Capacity building of the Students and Faculty members etc. for overall quality improvement.
- Assistant Director, All India Council for Technical Education, New Delhi (from Jan 28, 2006 to Dec 22, 2008). Worked in Quality Assurance (QA) and Faculty Development (FD) Bureaus and contributed in quality aspects and faculty developments schemes.
- Serving as Expert in NAAC, UGC, AICTE, PCI and other Govt. bodies of higher and technical education.

Organizational Skills

- Organized one week course under GIAN (Global Initiatives for Academic Network) sponsored by MHRD on title “Ethnopharmacology - Challenges and opportunities at the face of globalization” during December 14-18, 2019. Foreign faculty- Prof. Michael Heinrich, UCL School of Pharmacy, Univ. London.
- Organized 18th Annual Convention of Society of Pharmacognosy on “Promotion and Globalisation of Indian Herbal Products-Perspectives and Prospects” during February 21-22, 2014 as Organizing Secretary.
- Organized about 10 Workshops/National Seminars as Convener on various aspects of academics and research.
- Organized various camps, awareness programs in surrounding villages about health, sanitation, generic medicines, safe use of herbal drugs etc to sensitize the public.

Societal Contribution

- To sensitize the public about health, sanitation, generic medicines, safe use of herbal drugs etc.

- Participating and contributing in various societies, platforms about moral ethical values among youth, judicial use of water and food resources, nutrition for a good health, Ayurveda etc.

Experience

- Professor, Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak since December 23, 2014.
- Associate Professor, Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak from Dec 23, 2011 to December 22, 2014.
- Reader, Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak from Dec 23, 2008 to December 22, 2011.
- Assistant Director, All India Council for Technical Education, New Delhi from Jan 29, 2006 to Dec 22, 2008.
- Assistant Professor, ISF College of Pharmacy, Moga, Punjab from December 31, 2001 to January 28, 2006.
- Worked in a Pharmaceutical Industry for 3 years as Manufacturing and Quality control area.

Academic/Research contribution

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|---|---|----------------------------------|
| • Research Publications | : | 75 |
| • Scientific Abstracts | : | 155 |
| • M. Pharm Dissertations Supervised | : | 35 |
| • PhD Projects Supervised | : | 05 completed (08 under progress) |
| • Scientific Papers Presented/
Invited Talks | : | 42 |
| • Patents (In Progress) | : | 04 |

Research Field

- Quality control and standardization of Medicinal Plants through advanced analytical techniques for safety and efficacy.

- Exploration of natural resources for bio-prospecting and value addition for socio-economic development.

Professional/Administrative domain

- Quality Assurance aspects of an Institution/University for capacity building, ranking and accreditation.

Government Funded Projects (> 2.50 Crores)

- Deputy Co-ordinator of the project sanctioned by UGC under STRIDE (Scheme for Trans-disciplinary Research for India's Developing Economy) worth 80 lakhs under title "Bioprospecting Natural Products for Human Health and Socioeconomic Development in Haryana" in 2019.
- Co-ordinator, UGC SAP project at DRS level-II awarded by University Grants Commission, Ministry of Human Resource and Development, New Delhi worth Rs. 76 Lakhs.
- Co-investigator of the project titled "Quality, Efficacy and Safety Studies of some Indian Herbs/Formulations' sanctioned to the department under UGC SAP project at DRS level by University Grants Commission, Ministry of Human Resource and Development, New Delhi worth Rs. 70 Lakhs.- Completed.
- Co-investigator of the project titled "Studying the Impact of Climate Change on Quality and Quantity of Secondary Metabolites in Some Commercial Medicinal Plants" sponsored by National Medicinal Plants Board, Department of AYUSH, Ministry of Health and Family Welfare, New Delhi worth Rs. 19.9 lacs. – Completed.
- Principal investigator of the Sponsored Project titled "Marker analysis of the Herbal Medicinal Plants (HMP's) through HPTLC for standardization and quality control" under MODROBS by AICTE worth Rs. 18.00 Lakhs. – Completed.

Selected Publications

- Chanchal Garg, Hitender Sharma, Munish Garg. (2020) Skin photo-protection with phytochemicals against photo-oxidative stress, photo-carcinogenesis, signal transduction pathways and extracellular matrix remodeling—An overview. Ageing research reviews. 62, 101127. **(IF-10.668)**
- Saurabh Satija, Murtaza M. Tambuwala, Kavita Pabreja, Hamid A. Bakshi, Dinesh Kumar Chellappan, Alaa A. Aljabali, Srinivas Nammi, Thakur Gurjeet Singh, Harish Dureja, Gaurav Gupta, Kamal Dua, Meenu Mehta (2020). Development of a novel

HPTLC fingerprint method for simultaneous estimation of berberine and rutin in medicinal plants and their pharmaceutical preparations followed by its application in antioxidant assay. *Journal of Planar Chromatography - Modern TLC*, 33(3), pp. 313-319 (**IF-0.815**)

- Vaibhav Walia, Chanchal Garg & Munish Garg. (2019). Amantadine exerts anxiolytic like effect in mice: Evidences for the involvement of nitrenergic and GABAergic signaling pathways. *Behavioural Brain research*, 380, 112432. (**IF-2.770**) (**Scopus Indexed**) (**ISSN: 0166-4328**)
- Vaibhav Walia, Chanchal Garg & Munish Garg. (2019). Lithium Potentiated, Pyridoxine abolished and Fluoxetine Attenuated the Anxiolytic Effect of Diazepam in Mice. *Brain Research Bulletin*. 150:343-353 (**IF-3.103**) (**Scopus Indexed**) (**ISSN: 0361-9230**)
- Meenu Mehta, Munish Garg, Kamal Dua, Saurabh Satija. Simultaneous HPTLC densitometric estimation of KBA and AKBA from *Boswellia serrata*. *Current Analytical Chemistry* (Bentham Science **IF 1.0**). 2019. 15: 84-91.
- Vaibhav Walia, Chanchal Garg, Munish Garg. Nitrenergic signalling modulation by ascorbic acid treatment is responsible for anxiolysis in mouse model of anxiety. *Behavioural Brain Research*. 2019. 364. 85-98. **IF. 3.2**
- Vaibhav Walia, Chanchal Garg, Munish Garg. NO-sGC-cGMP signaling influence the anxiolytic like effect of lithium in mice in light and dark box and elevated plus maze. *Brain research*. 2019. 1704. **IF. 3.6**.
- Vaibhav Walia, Chanchal Garg, Munish Garg. Anxiolytic-like effect of pyridoxine in mice by elevated plus maze and light and dark box: Evidence for the involvement of GABAergic and NO-sGC-cGMP pathway. *Pharmacology, Biochemistry and Behavior*. 173, 96-106. (**IF-2.538**)
- Bhan M, Satija S, Garg C, Dureja H, Garg M. Optimization of ionic liquid-based microwave assisted extraction of a diterpenoid lactone-andrographolide from *Andrographis paniculata* by response surface methodology. *Journal of Molecular Liquids* 2017; 229: 161–166 (**Impact factor 3.67, Indexed in Thomson SCI**).
- Mehta M, Dureja H, Garg M. Development and optimization of boswellic acid loaded proniosomal gel. *Drug Delivery*. 2016. 23 (8): 3072-3081. **IF 6.40 Indexed in Thomson SCI**.
- Baljeet S Yadav, Roshanlal Yadav, Ritika B Yadav, Munish Garg. Antioxidant activity of various extracts of selected gourd vegetables. *Journal of Food Science and Technology*. 2016; 53 (4): 1823-1833. **IF 2.2. Indexed in Thomson SCI**

- Satija S, Malik S, Garg M. Development of a new, rapid and sensitive validated HPTLC method for estimation of berberine in *Tinospora cordifolia*. *Journal of Planar Chromatography - Modern TLC*. 2016. 29 (3) 209-215. **IF-1.247**
- Garg M, Lata K, Satija S. Cytotoxic potential of few Indian Fruit Peels through MTT assay on Hep G2 cells. *Indian Journal of Pharmacology*. 2016, 48(1): 64-68. **IF-0.9**
- Mehta M, Satija S, Garg M. Simultaneous HPTLC densitometric estimation of KBA and AKBA from *Boswellia serrata*. *Acta Chromatographica*. 2016. Accepted. **IF-0.577**
- Mehta M, Satija S, Garg M. Comparison Between HPLC and HPTLC Densitometry for the Determination of 11-keto- β -boswellic acid and 3-acetyl-11-keto- β -boswellic acid from *Boswellia serrata* Extract. *Indian Journal of Pharmaceutical Education and Research*. 2016; 50 (3): 418-423. **IF-0.270**
- Sharma H, Garg M. A review of traditional use, phytoconstituents and biological activities of Himalayan Yew, *Taxus wallichiana*. *Journal of Integrative Medicine* (Elsevier). 2015; 13 (2): 80-90. **IF 1.2**
- Sharma H, Garg M. Neuropharmacological activities of *Taxus wallichiana* bark in Swiss albino mice. *Indian J Pharmacol* 2015; 47: 299-303. **IF 0.9**
- Garg M, Singhal T, Sharma H. Cardioprotective effect of ammonium glycyrrhizinate against doxorubicin-induced cardiomyopathy in experimental animals. *Indian J Pharmacol* 2014; 46: 527-30. **IF- 0.9**
- Vivek K Gupta, Rachna Kumaria, Munish Garg, Monika Gupta. Recent updates on Free Radical Scavenging Flavonoids: An Overview. *Asian Journal of Plant Sciences*. 2010; 9 (3): 108-117.
- C. Garg, S. A. Khan, S. H. Ansari, M. Garg. Prevalence of obesity in Indian Women. *Obesity reviews*. 2009;11(2) : 105-08 (**Impact factor 7.9**)

Patents in Progress

- Munish Garg, Dharmabir Singh. Novel solid dosage formulations of *Trikatu* and methods of preparations thereof. Published in Official Journal of the Patent Office on date 31/05/2013, page number 11983.
- Munish Garg, Parul Garg. Novel ursolic acid loaded proniosomal gel and method of preparations thereof. Published in Official Journal of the Patent Office on date 31/05/2013, page number 11984.

- Munish Garg, Monika Joon. Novel proniosomal gel of *Withania somnifera*. Published in Official Journal of the Patent Office on date 31/05/2013, page number 11986.
- Munish Garg, Chanchal Garg, Vinni Ahuja. Nutritional refreshing summer cold drink. Published in Official Journal of the Patent Office on date 20/09/2013, page number 22817.

Published Book

- Munish Garg, Chanchal Garg (2017). Communication Skills in Scientific Research. Studium Press. INDIA Pvt Limited. ISBN: 978-93-80012-5.

Book Chapters

- Vaibhav Walia, Munish Garg. Chapter on Lewy Body Disease: Point Towards Progressive Dementia in *Critical Examinations of Neurodegenerative Disorders* published by IGI Global (USA), 2017. (ISBN: 97881522552826).
- Vaibhav Walia, Ashish Gakkhar, Munish Garg. Chapter on Parkinson's Disease in *Critical Examinations of Neurodegenerative Disorders* published by IGI Global (USA), 2017. (ISBN: 97881522552826).
- Vaibhav Walia, Munish Garg. Chapter on Mitochondrial Dysfunction in Aging and Neurodegeneration in *Critical Examinations of Neurodegenerative Disorders* published by IGI Global (USA), 2019, pp 209-236 (ISBN: 97881522552826).
- Vaibhav Walia, Munish Garg. Chapter on Antidepressants in *Advances in Neuropharmacology: Drugs and Therapeutics* published by Apple Academic Press, worldwide distribution by CRC Press, a Taylor & Francis Group, 2019, pp. 283-296. (ISBN: 9781771887977).
- Vaibhav Walia, Munish Garg. Chapter on Antianxiety Drugs in *Advances in Neuropharmacology: Drugs and Therapeutics* published by Apple Academic Press, worldwide distribution by CRC Press, a Taylor & Francis Group, 2017. (ISBN: 9781771887977).
- Abhilasha Ahlawat, Vaibhav Walia, Meenakshi Kaira, Munish Garg. Chapter on Antioxidant signaling in the Neurodegeneration in *Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Disease* published by Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY, 11788 USA, 2019, pp. 95-130. (ISBN: 978-1-53615-687-4).

- Meenakshi Kaira, Vaibhav Walia, Abhilasha Ahlawat, Munish Garg. Chapter on Free Radicals and antioxidants in Human Health and Diseases in *Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Disease* published by Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY, 11788 USA, 2019, pp. 23-53. (ISBN: 978-1-53615-687-4).
- Meenakshi Kaira, Vaibhav Walia, Abhilasha Ahlawat, Munish Garg. Chapter on Autophagy In Neurodegeneration in *Quality Control of Cellular Protein in Neurodegenerative Disorders* published by by IGI Global (USA), 2019. (Accepted chapter).
- Abhilasha Ahlawat, Vaibhav Walia, Meenakshi Kaira, Munish Garg. Chapter on Mitophagy In Neurodegeneration in *Quality Control of Cellular Protein in Neurodegenerative Disorders* published by by IGI Global (USA), 2019. (Accepted chapter).
- Meenu Bhan, Munish Garg. Ionic Liquids: Green Solvents for the Extraction of Phytoconstituents In Medicinal Plants-Phytochemistry, Pharmacology and Therapeutics. Vol IV. Daya Publishing House, New Delhi. Page 183-197. ISBN: 978-9-351-24704-3.

Professional Article

- Tabassum Naqvi, Munish Garg, Prasad Krishna. Global trends in Engineering Accreditation systems in the context of International Engineering alliance. *The Indian Journal of Technical Education*. 2008, 31(1): 83-89.

List of completed PhD Guided Projects (05)

- Investigation of some neurochemical modulators for their anxiolytic potential- Vaibhav Walia (2019)
- Novel Extraction and Analytical Determination of Botanicals and Similar Natural Products of *Tinospora cordifolia* by HPTLC fingerprint approach- Saurabh Satija (2017)
- Studies on Ionic Liquid based Microwave Assisted Extraction (ILs-MAE) of Herbal Bioactive Compounds and Optimization through Response Surface Methodology- Meenu Bhan. (2017)
- Phytochemical and Pharmacological evaluation of *Tecomella undulata* Linn. – Ruby Rohilla. (2017)

- Formulation and Characterization of Novel Delivery System of Bioactive Boswellic acids- Meenu Mehta. (2016)

Recent participation in professional activities

- Delivered key note address on “National Education Policy-Future of Higher Education in India” in Webinar conducted by HPTU, Shimla and Dreamz College of Pharmacy, Sundernagar on 24.09.2020.
- Resource person in an interactive session on topic “Research, Consultancy and Extension” in K. L. Mehta Dayanand College for Women, Faridabad on 07.06.2020.
- Delivered key note address on “Governance, Leadership and Management” in Aggarwal College, Ballabgarh on 26.05.2020.
- Delivered an invited talk on “Role of IQAC for the quality improvement of an Institution” in One day National Conference sponsored by NAAC Bengaluru on theme “Enhancement of Quality in Higher Education: The Role of IQAC” on 09-11-2019 at GCW, Kharkhoda.
- Attended workshop on “Innovations and Good Practices in Institutional Governance of Higher Education” held from 19th August to 21st August, 2019 at NIEPA, New Delhi.
- Attended 8th Education and Skill Summit at ITC Maurya, New Delhi on July 10, 2019 organised by India Today Group.

Countries Visited : Singapore, Malaysia, UAE

Membership

- Life member of Association of Pharmaceutical Teachers of India (APTI)
- Life member of Indian Hospital Pharmacists Association (IHPA)
- Life Member of Society of Pharmacognosy

(Munish Garg)