

## **Bio Data**

### **Address and Contact details:**



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### **Summary profile**

- More than 20 years of professional experience having ability to work both as individual and in a team. Presently working at a responsible position with an apt understanding of functioning of academic institutions.
- Believe that education not only to train technical skills but also to inculcate moral/ethical values to prepare future ready professionals and responsible citizens.

### **Additional Charges in the University at present**

- Director, University Institute of Public Health Sciences (w.e.f. 17.03.2021)

### **Administrative positions held in Past**

- Director, Centre for Startup, Incubation and Innovation (w.e.f 01.03.2021 to 05.05.2022).
- 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 28<sup>th</sup> 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.
- Member/Co-ordinator/Chairman of Expert team in NAAC, UGC, AICTE, PCI and other Govt. bodies of higher and technical education.

### **Professional 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.
- Manufacturing Chemist, in a Pharmaceutical Industry for 3 years from 1996 to 1999.

### **Organizational Skills and Team Work**

- Convener, One week training cum capacity building program for the scholars of M. D. University held on topic “Bioprospecting natural products for human health and socio-economic development” held between January 9-14, 2023.
- Convener, One Day National Conference on “Reckoning Public Health Education in India-Trends and Prospects” conducted on November 21, 2022.
- Convener, One Day National Conference on April 26, 2022, 2022 on “World Entrepreneurs Day” under CSII.
- Convener, UGC Sponsored Three Days National Conference on “Entrepreneurship and Startup opportunities in Herbal Drugs- A Way Forward” held on March 8-10, 2022.
- Convener, One week training cum capacity building program for the scholars of M. D. University held on topic “Purification and Characterization of Active Compounds from Natural Products held between August 16-21, 2021.
- Convener, One Day National Conference on “Innovation Driven Entrepreneurship” on August 21, 2021 on “World Entrepreneurs Day” under CSII.
- Convener, One-Week National Workshop-cum-Training Programme on “Purification and Characterization of Active Compounds from Natural Products” held on August 16-21, 2021 under STRIDE Program.
- Convener, One Day National Conference on “Innovations and skill opportunities in current pandemic time” in collaboration with ASSOCHAM on dated May 25, 2021 under CSII.
- Convener, Two Days National Conference on Theme “Natural Products and Human Health: Opportunities and Challenges in Present Scenario” between April 9-10, 2021 under STRIDE.
- Convener, Two Days National Conference on Theme “Quality Control of Indian Medicinal Plants-Standardised Raw Material to Finished Products” during March 25-26, 2021 under UGC- SAP.
- Co-ordinator, One Day National Conference on “Bridging the Academia Industry Gap-Challenges and opportunities in new decade” held on March 06, 2020 under UGC-SAP.
- Convener, 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.

- Convener, One Day National Conference on Theme “Avenues of Herbal research and Industrial Collaboration” on dated 02.03.2019.
- Organized about 10 Workshops/National Seminars as Convener on various aspects of academics and research during headship of the department between November 2015 to November 2018.
- Organized 18<sup>Th</sup> 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 various camps, awareness programs in surrounding villages about health, sanitation, generic medicines, safe use of herbal drugs etc to sensitize the public.

### **Societal Contribution**

- Contributed as Member of the team for implementation evaluation of the Anemia Mukta Bharat (AMB) Program, conducted with stakeholders at state and district level, interaction with field level workers as well as beneficiaries during February 6-10, 2023.
- Sensitizing the society about health, sanitation, generic medicines, safe use of herbal drugs etc.

### **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 overall socio-economic development.

### **Professional/Administrative domain**

- Innovation, startup and Entrepreneurial activities to motivate students for self employment and become “Job Providers”.
- 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 (Completed).
- 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. (Completed)
- 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. 46 Lakhs + 20 lakhs Infrastructure grant – (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).

### ***Research Publications (Selected Indexed Only)***

- Ahlawat, A., Walia, V., Garg, M. Beneficial effects of Insulin and Rivastigmine in Type-3 Diabetes mellitus in rats. *Journal of Applied Pharmaceutical Science*. 2023. 13(7), pp. 123-131.
- Kumar, S., Buttar, H.S., Kaushik, S., Garg, M. Potential Role of Natural Essential Oils in the Management of Respiratory Distress in Patients Infected with SARS- CoV- 2: An Overview. *Learning from the COVID- 19 Pandemic: Implications for Science, Health, and Healthcare. Springer. 2023. Pp 221-230. 2023*
- Parashar S and Garg M: Green synthesis of silver nanoparticles (AGNPS) using *Manilkara zapota* fruit extract: potential role in catalytic degradation of methylene blue dye. *Int J Pharm Sci & Res* 2022; 13(8): 3187-93. doi: 10.13040/IJPSR.0975-8232.13(8).3187-93
- Garg M, Ahuja M. Advances in nanoparticles based controlled delivery of natural bio-actives. *Current Drug Delivery*. 2022, 19(2), 168-69. **I.F. 2.20.**
- Sonia Parashar, Manish kumar Sharma, Harpal Singh Buttar, Munish Garg. Green synthesized Silver Nanoparticles as Silver Lining in Antimicrobial Resistance: A

Review. *Current Drug Delivery*. 2022, 19(2), 170-181. **I.F. 2.20.**

- Sukender, Chanchal Garg, Harpal Sigh Buttar, Munish Garg. Demystifying Therapeutic Potential of Medicinal Plants against Chikungunya Virus. *Indian Journal of Pharmacology*. 2021, 53(5), 403-411. **I.F. 1.01.**
- Garg C, Sharma H, Garg M. Skin photo-protection with phytochemicals against photo-oxidative stress, photo-carcinogenesis, signal transduction pathways and extracellular matrix remodeling—An overview. *Ageing Res Rev* 2020; 62, 101127. **(I.F. 10.8)**
- Satija S, Tambuwala MM, Pabreja K, Bakshi HA, Chellappan DK, Aljabali AA, et al. 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. *J Planar Chromatogr Mod TLC* 2020;33(3):313-319.
- Walia V, Garg C, Garg M. Amantadine exerts anxiolytic like effect in mice: Evidences for the involvement of nitrenergic and GABAergic signaling pathways. *Behav Brain Res* 2020;380.
- Walia V, Garg C, Garg M. Lithium potentiated, pyridoxine abolished and fluoxetine attenuated the anxiolytic effect of diazepam in mice. *Brain Res Bull* 2019;150:343-353.
- Ahlawat A, Walia V, Kaira M, Garg M. Antioxidants signaling in neurodegenerative disorders. *Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Diseases*; 2019. p. 95-130.
- Kaira M, Ahlawat A, Walia V, Garg M. Free radicals and antioxidants in human health and diseases. *Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Diseases*; 2019. p. 23-52.
- Walia V, Garg C, Garg M. Nitrenergic signaling modulation by ascorbic acid treatment is responsible for anxiolysis in mouse model of anxiety. *Behav Brain Res* 2019;364:85-98.
- Walia V, Garg C, Garg M. NO-sGC-cGMP signaling influence the anxiolytic like effect of lithium in mice in light and dark box and elevated plus maze. *Brain Res* 2019;1704:114-126.
- Garg C, Khurana P, Garg M. Antiaging and antiwrinkle potential of glycyrrhiza glabra. *Plant Arch* 2019;19:1151-1155.

- Mehta M, Garg M, Dua K, Satija S. Simultaneous HPTLC densitometric estimation of KBA and AKBA from *Boswellia serrata*. *Curr Anal Chem* 2019;15(1):84-91.
- Walia V, Garg C, Garg M. 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. *Pharmacol Biochem Behav* 2018;173:96-106.
- Garg C, Khurana P, Garg M. Molecular mechanisms of skin photoaging and plant inhibitors. *Int J Green Pharm* 2017;11(2):S217-S232.
- 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. *J Mol Liq* 2017;229:161-166.
- Rohilla R, Garg C, Garg M. In vitro hypoglycemic evaluation of fractions of hydroalcoholic extract of heartwood of *Tecomella undulata* linn. *Asian J Pharm Clin Res* 2017;10(2):266-269.
- Mehta M, Dureja H, Garg M. Development and optimization of boswellic acid-loaded proniosomal gel. *Drug Deliv* 2016;23(8):3072-3081.
- Mehta M, Satija S, Garg M. Comparison between HPLC and HPTLC densitometry for the determination of 11-keto- $\beta$ -boswellic acid and 3-acetyl-11-keto- $\beta$ -boswellic acid from *Boswellia serrata* extract. *Indian J Pharm Educ Res* 2016;50(3):418-423.
- Satija S, Malik S, Garg M. Development of a new, rapid, and sensitive validated high-performance thin-layer chromatographic method for the estimation of berberine in *Tinospora cordifolia*. *J Planar Chromatogr Mod TLC* 2016;29(3):209-215.
- Yadav BS, Yadav R, Yadav RB, Garg M. Antioxidant activity of various extracts of selected gourd vegetables. *J Food Sci Technol* 2016;53(4):1823-1833.
- Garg M, Lata K, Satija S. Cytotoxic potential of few Indian fruit peels through 3-(4,5-dimethylthiazol-yl)-2,5-diphenyltetrazolium bromide assay on HepG2 cells. *Indian J Pharmacol* 2016;48(1):64-68.
- Sharma H, Garg M. Neuropharmacological activities of *Taxus wallichiana* bark in Swiss albino mice. *Indian J Pharmacol* 2015;47(3):299-303.
- Sharma H, Garg M. A review of traditional use, phytoconstituents and biological activities of Himalayan yew, *Taxus wallichiana*. *J Integr Med* 2015;13(2):80-90.

- Mehta M, Garg M. Proniosomal gel: A promising drug carrier for boswellic acids. *J Med Sci* 2015;15(3):130-134.
- Satija S, Bansal P, Dureja H, Garg M. Microwave assisted extraction of *Tinospora cordifolia* and optimization through central composite design. *J Biol Sci* 2015;15(3):106-115.
- Rohilla R, Garg M. Phytochemistry and pharmacology of *Tecomella undulata*. *Int J Green Pharm* 2014;8(1):1-6.
- Garg M, Singh D, Sharma H. Preparation and evaluation of dispersible tablets of Trikatu extract. *Asian J Pharm* 2014;8(4):275-278.
- Garg M, Singhal T, Sharma H. Cardioprotective effect of ammonium glycyrrhizinate against doxorubicin-induced cardiomyopathy in experimental animals. *Indian J Pharmacol* 2014;46(5):527-530.
- Mehta M, Satija S, Nanda A, Garg M. Nanotechnologies for Boswellic Acids. *Am J Drug Discov Dev* 2014;4(1):1-11.
- Bhan M, Satija S, Garg C, Dureja H, Garg M. A novel approach towards green extraction for glycyrrhithinic acid by ionic liquid based microwave assisted extraction and optimization through response surface methodology. *Pharmacogn J* 2014;9(6):866-872.
- Joon M, Garg M. Formulation and evaluation of standardised *Withania somnifera* leaf extract loaded transdermal gel. *J Med Sci* 2013;13(8):814-818.
- Kumar P, Mehta M, Satija S, Garg M. Enzymatic in vitro anti-diabetic activity of few traditional Indian medicinal plants. *J Biol Sci* 2013;13(6):540-544.
- Garg M, Garg P. Encapsulation of bio active compound ursolic acid as proniosomes and its evaluation. *Asian J Pharm* 2013;7(4):158-162.
- Garg M, Das S, Singh G. Comparative physicochemical evaluation of a marketed herbomineral formulation: Naga bhasma. *Indian J Pharm Sci* 2012;74(6):535-540.
- Kadian SS, Garg M. Pharmacological effects of carotenoids: A review. *Intl J Pharm Sci* 2012;3(1):42-48.
- Gupta VK, Kumria R, Garg M, Gupta M. Recent updates on free radicals scavenging flavonoids: An overview. *Asian J Plant Sci* 2010;9(3):108-117.



- Garg C, Khan SA, Ansari SH, Garg M. Efficacy and safety studies of *Foeniculum vulgare* through evaluation of toxicological and standardisation parameters. *Int J Pharmcy Pharm Sci* 2010;2(2):43-45.
- Garg C, Khan SA, Ansari SH, Garg M. Prevalence of obesity in Indian women. *Obes Rev* 2010;11(2):105-108.
- Garg C, Khan SA, Ansari SH, Suman A, Garg M. Chemical composition, therapeutic potential and perspectives of *Foeniculum vulgare*. *Pharmacogn Rev* 2009;3(6):346-352.
- Garg M, Dhar VJ, Kalia AN. Antidiabetic and antioxidant potential of *Phyllanthus fraternus* in alloxan induced diabetic animals. *Pharmacogn Mag* 2008;4(14):138-143.

### ***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 Books***

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

### **Book Chapters**

- Walia, V., Garg, M. Mitochondrial Dysfunction in Aging and Neurodegeneration, *Research Anthology on Supporting Healthy Aging in a Digital Society*, 2022, pp. 253–278.
- Ahlawat, A., Walia, V., Garg, M. (2022). Role of Impaired Insulin Signaling in the Pathogenesis of Dementia. In: Ashraf, G.M., Uddin, M.S. (eds) *Current Thoughts on Dementia*. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7606-2\\_3](https://doi.org/10.1007/978-981-16-7606-2_3)

- Kaira, M., Walia, V., Garg, M. (2022). Role of Hypertension and Hyperlipidemia in the Pathogenesis of Dementia. In: Ashraf, G.M., Uddin, M.S. (eds) *Current Thoughts on Dementia*. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7606-2\\_10](https://doi.org/10.1007/978-981-16-7606-2_10)
- Ahlawat, A., Kaira, M., Walia, V., & Garg, M. (2020). Molecular Mechanisms Underlying the Role of Mitophagy in Neurodegeneration. In M. Uddin, & G. Ashraf (Ed.), *Quality Control of Cellular Protein in Neurodegenerative Disorders* (pp. 63-87). IGI Global. <https://doi.org/10.4018/978-1-7998-1317-0.ch003>
- Kaira, M., Ahlawat, A., Walia, V., & Garg, M. (2020). Autophagic Dysfunction in Neurodegeneration: Pathogenic Cellular and Molecular Mechanistic Approaches. In M. Uddin, & G. Ashraf (Ed.), *Quality Control of Cellular Protein in Neurodegenerative Disorders* (pp. 25-62). IGI Global. <https://doi.org/10.4018/978-1-7998-1317-0.ch002>
- 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).
- 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 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 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).
- 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.

### ***Scientific papers Presented/Abstracts***

- Munish Garg, Meenu Bhan, Chanchal Garg. Presented the research paper titled “Development and Optimization of Boswellic acids loaded proniosomal Gel” during 8<sup>th</sup> International Conference on Natural and Alternative Medicines held at Dubai, UAE between September 25-27, 2017.
- Garg Munish, Singh Dharambir. Presented a paper titled “Development and evaluation of standardized solid dosage formulations of *Trikatu*” at 3<sup>rd</sup> Biennial International conference on Natural Products and Traditional Medicines held at NIPER from 22-24 November, 2012.
- Munish Garg, Arun Nanda, Sneha Das. Safety aspects of Indian herbo-mineral formulations- *Nagabhasma* A case study” Paper presented at 12<sup>th</sup> Congress of International Society for Ethnopharmacology (ISE) held at Science city, Kolkata during February 17-19, 2012.
- Garg M., Das S., Singh G., Solanki J., Hooda M. Comparative Biological Studies of Five commercial samples of herbo-mineral ayurvedic preparation- *Nagabhasma*. Paper presented at 63<sup>rd</sup> Indian Pharmaceutical Congress held at Bangalore during 16- 18 December, 2011.
- Munish Garg, Monika Hooda. Development and application of HPLC-DAD method for the evaluation of undeclared synthetic compounds in herbal formulations. Paper presented at 16<sup>th</sup> Annual convention of APTI held at I. S. F. college of Pharmacy, Moga between October 7 to 9, 2011.
- Joon M, Garg P, Garg M, Status regarding quality control and standardization for *Withania somnifer*. Paper presented at 16<sup>th</sup> Annual convention of APTI held at I. S. F. college of Pharmacy, Moga between October 7 to 9, 2011.
- Joon M, Garg P, Garg M, Status regarding quality control and standardization for *Withania somnifer*. Paper presented at 16<sup>th</sup> Annual convention of APTI held at I. S. F. college of Pharmacy, Moga between October 7 to 9, 2011.
- Das Sneha, Garg Munish and Singh Govind. Standardisation and quality control methods for determining Purity, safety and efficacy of an ayurvedic herbo-mineral preparation- *Nagabhasma*. Paper presented at AICTE sponsored National seminar “Industry expectations from Pharmacy Colleges” held at ITS paramedical (Pharmacy) College, Murad Nagar during 5-6 August, 2011.

- Monika Hooda, Jyoti Solanki, Sneha Das, Munish Garg. Evaluation of Undeclared chemicals in Herbal Formulations by HPLC. Paper presented at AICTE sponsored National seminar "Industry expectations from Pharmacy Colleges" held at ITS paramedical (Pharmacy) College, Murad Nagar during 5-6 August, 2011.
- Jyoti Solanki, Monika Hooda, Sneha Das, Munish Garg. Qualitative and quantitative estimation of residual solvents in herbal formulations. Paper presented at AICTE sponsored National seminar "Industry expectations from Pharmacy Colleges" held at ITS paramedical (Pharmacy) College, Murad Nagar during 5-6 August, 2011.
- Sukender Kumar, Jaspreet Singh, Monika Hooda, Sneha Das, Munish Garg. Screening of Herbal cosmetics for quality and efficacy aspects. Paper presented at AICTE sponsored National seminar "Industry expectations from Pharmacy Colleges" held at ITS paramedical (Pharmacy) College, Murad Nagar during 5-6 August, 2011.
- "Standardised alcoholic extract of *Phyllanthus fraternus* exerts potential action against disturbed biochemical parameters in diabetic animals" Oral presentation in 4<sup>th</sup> Global Summit on Medical & Aromatic Plants-2009 Kuching, Sarawak, Malaysia, held from December 1-5, 2009, at Kuching, Sarawak, Malaysia.
- "Evaluation of Toxicological Parameters for Efficacy and Safety of a Herbal Drug *Cyamopsis Tetragonolobus*" at International Herbal Conference-2009 held at Bangalore between February 26-28, 2009.
- "Antidiabetic and antioxidant potential of *Phyllanthus fraternus* in alloxan-induced diabetic animals" in 60<sup>th</sup> Indian Pharmaceutical Congress held at New Delhi on 11-13 Dec, 2008.
- Presented a paper titled "Effect of *Phyllanthus fraternus* plant extracts on Cardiovascular functions in alloxan induced diabetic rats" at Second International Symposium on *Recent Advances in Cardiovascular Sciences* held at DIPSAR, New Delhi on Feb 28, 2008.
- Presented a paper titled "Pharmacognostical and Standardisation parameters of *Phyllanthus amarus*" at 12<sup>th</sup> Symposium of Indian Society of Pharmacognosy held at Moga on Feb 23-24, 2008.
- Presented a paper titled "Antidiabetic and antioxidant potential of *Phyllanthus fraternus* in alloxan-induced diabetic animals" in 59<sup>th</sup> Indian Pharmaceutical Congress held at Varanasi on 20-23 Dec, 2007.
- Presented a paper titled "The effect of *Phyllanthus fraternus* plant extracts in alloxan-induced diabetic rats: A biochemical and histopathological study" in International Conference on *Research Advances in Traditional Medicine: Challenges and opportunities* held at Jamia Hamdard on October 30-31, 2007.
- Presented a paper titled "Effect of *Phyllanthus urinaria* extracts on normal and alloxan-induced hyperglycemic albino rats" in 39<sup>th</sup> Annual Conference of Indian Pharmacological Society (IPS) held at Jaipur dated Dec 21-23, 2006.
- Two Scientific abstracts of papers titled "Good agricultural practices for herbal

or medicinal plants” and “Dry granulation and compression to tablet form of spray-dried plant extracts” presented in *2<sup>nd</sup> National Seminar and Intellectual property fair on green Pharmacy* held at Mandsaur on dated 28-29 Oct, 2006.

- Scientific abstract of paper titled “Synthesis, Characterisation and Release Kinetics of Polymeric Prodrug of Diclofenac Sodium” presented at IPC 57<sup>th</sup> held at Hyderabad on dated Dec 2-4, 2005.
- Presented a paper titled “Optimum cultivation parameters, phytochemical and hypoglycemic studies of *Phyllanthus fraternus*” at *International Conference on promotion and development of Botanicals* held at Kolkata on Feb 25-26, 2005.
- Presented a paper titled “Antioxidant potential of *Sesbania gradiflora*” in IPC 56<sup>th</sup> held at Kolkata in Dec. 2004.
- Presented a research paper titled “*In vitro* and *in vivo* Antioxidant potential of *Lactuca sativa*-a prospective nutraceutical”, in IPC 55<sup>th</sup> held at Chennai from Dec. 19-21, 2003.
- Presented a research paper titled “*In vitro* and *in vivo* potential of *Moringa oleifera*” in IPC 55<sup>th</sup> held at Chennai from Dec. 19-21, 2003.
- Presented a paper titled “Use of Over Head Projector (OHP) in regular teaching classes” in IPC 55<sup>th</sup> held at Chennai from Dec. 19-21, 2003.

### **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**

- Green synthesis of silver nanoparticles with selected medicinal plants for their broad-spectrum antimicrobial activity-Sonia Parashar (2023) -
- “Investigation of Some Potential Neuronal Approaches for their Beneficial Effect in Type-3 Diabetes Mellitus”-Abhilasha (2023)
- 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)

***List of completed M. Pharm supervised dissertations***

**2023**

- Effect of naturally occurring Terpenoids against Dengue Virus: Pharmacokinetics, Toxicity profiling and Molecular docking studies- Anjali Kaushik

**2022**

- Preparation and Evaluation of Healthy Herbal Tea Combinations with Eco-friendly Packaging- Khushi Goel
- A study on estimation of inorganic metals concentration in Indian marketed herbal formulations through atomic absorption spectrophotometry- Jyoti Sandhu

**2021**

- To study the role of essential oils in the management of COVID-19 and related health disorders- Jyoti Saini
- A study on Need and Potential of Cultivation of Medicinal Plants for Quality Control and Sustainable Development- Kamini Bhardwaj

**2020**

- A study to determine the status of adulterants in milk and current evaluation methods- Deepak Kumar

**2019**

- Evaluation of some folklore used Indian medicinal plants for their anti-aging and anti-wrinkle potential – Chetna Verma
- Formulation development and evaluation of selected medicinal plants extracts having anti aging and anti wrinkle potential- Sanju
- Green Synthesis of Silver Nanoparticles, Characterization and Evaluation of Antimicrobial Activity – Kaneez Fatima

**2018**

- Evaluation of antiaging and antiwrinkle potential of selected herbal plants-

Ravinder Singh.

- *In vitro* evaluation of *Ocimum tenuiflorum* and *Manilkara zapota* for their antiaging and antiwrinkle potential- Amit Kumar

## **2017**

- Evaluation of Anti-aging and Antiwrinkle potential of selected Herbal Medicinal Plants.- Priyanka
- Estimation of essential trace elements and heavy metals in the marketed Indian Ayurvedic Asva and Arishta preparations.- Yatin Kumar
- Investigation of Enzyme Inhibitory Activity of Selected Indian Medicinal Plants for their *in vitro* Antidiabetic Potential- Meenakshi Kaira

## **2016**

- Pharmacognostical and phytochemical studies of *Psoralea corylifolia* for its standardization and quality Control-Nisha
- Safety evaluation of a polyherbal formulation: A subacute oral toxicity study- Nivedita
- Development of a validated HPTLC protocol for simultaneous estimation of mangiferin and emblin analysis in Marketed formulations-Shivani
- Development of a validated HPTLC protocol for simultaneous estimation of Aloe emodin and barbaloin analysis in Marketed formulations-Shruti
- Development of a validated HPTLC protocol for simultaneous estimation of rutin and silymarin analysis in Marketed formulations-Sonu

## **2015**

- Development, validation and analysis of HPTLC protocol for simultaneous analysis of rutin and p-coumaric acid in citrus fruits- Rinky
- Validated HPTLC protocol and stability indicating studies of piperine and *Piper longum*-Sachin Thakur
- Validated HPTLC protocol and stability indicating studies of Andrographolide and *Andrographis paniculata*- Pratibha
- Validated HPTLC protocol for simultaneous estimation of flavonoidal markers and analysis in differently extracted plants- Muskan
- Validated HPTLC protocol and stability indicating studies of Berberine and *Tinospora cordifolia*- Swati

## **2014**

- Microwave assisted extraction of phyllanthin from *Phyllanthus amarus* and optimization through Response surface Methodology- Sonia Verma.
- Development and evaluation of a herbal candy-Reena Hooda
- Antimicrobial and antioxidant activity of some Indian Fruit peels- Sonia Parashar
- Anticancer activity of some Indian fruit peels- Kusum lata
- Pharmacognostical, Phytochemical and anticancer activity of *Zizyphus numalaria*- Poonam

### **2013**

- Microwave-assisted extraction of berberine from *Tinospora cordifolia* and optimization through Response surface Morphology- Preeti Bansal
- Development and evaluation of Nutritional summer herbal cold drink. Vinni Ahuja
- Antidepressant and anti-anxiety activity of *Taxus wallichiana* Zucc.- Hitender Sharma
- Cardioprotective effect of ammonium glycyrrhizinate in doxorubic induced cardiotoxicity in experimental animals- Tinku

### **2012**

- Formulation and evaluation of *Withania somnifera* extract loaded transdermal gel for improved pharmacological action- Monika Joon.
- Analysis of marketed products of withania for heavy metal, trace elements and marker component (withaferin-A) for quality control and standardisation- Ravikant.
- Pharmacokinetic and pharmacological evaluation of ursolic acid loaded transdermal gel- Parul Garg.
- Formulation and evaluation of solid dosage formulations of *Trikatu*- Dharamveer Singh.
- Alpha-amylase inhibitors from some important medicinal plants of India- Pardeep Kumar.

### **2011**

- Analytical studies of a few herbal cosmetic preparations for quality control and efficacy- Sukender Kumar.
- Studies on some herbal *Churna* preparations for the qualitative and quantitative estimation of heavy metals and trace elements- Jaspreet Singh
- Development and application of HPLC-DAD method for the evaluation of undeclared synthetic compounds in herbal formulations- Monika Hooda.
- Development of a suitable GC-FID method for simultaneous analysis of residual solvents in herbal formulations- Jyoti Solanki.



- Physico-chemical and biological studies of a Herbo-mineral preparation *Naga Bhasma* - Sneha Das
- Pharmacognostical, Phytochemical and Pharmacological evaluation of the bark of *Holoptella integrifolia* (Roxb.) Planch.- Harbir Singh.

## **2010**

- Chemical and Antimicrobial studies of *Mentha arvensis* and *Mentha piperita* - Madhu Gill.

## ***Invited Lectures/Talks***

- Resource Person in online ATAL AICTE sponsored 5 Days Faculty Development Programme (FDP) on topic entitled "Translating Pharmacognosy Knowledge into Health care System" organised by KLE College of Pharmacy, Hubli, Karnatka on November 23, 2021.
- Resource Person and Chief Guest (Inaugural ceremony on 20 Sept. 2021) in online ATAL AICTE sponsored 5 Days Faculty Development Programme (FDP) on topic entitled "Relationship of Emotional Intelligence with occupational stress, Job Satisfaction and Organizational Commitment" organised by Sagar Institute of Research and Technology Pharmacy, Bhopal.
- Resource person in panel discussion at ' Education Leaders' Summit Chapter Two, held on the theme "Building Resilient Education Systems for Inclusive and Sustainable Development: A Global Solidarity" on August 14<sup>th</sup>, 2021.
- 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, Ballabhgarh 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.
- Delivered various lectures/talks on "Components and parameters of NBA accreditation in technical Institutions" and 'NBA accreditation and its significance in Technical Institutions" throughout India during Jan 2006 to Dec 2008. To name a few are, Bannari Amman Institute of Technology, Coimbatore, SCMS Institute of Management, Cochin, Sharad Pawar College of Pharmacy,

Nagpur etc.

- Delivered a lecture on “Government initiatives in the promotions of Natural product research” in a UGC refresher course in Department of Pharmaceutical Technology, Jadavpur University, Kolkata in Dec 2008.
- Delivered a lecture on “Government initiatives in the promotions of herbal research in academic institutions” in a AICTE sponsored staff development programme at SBS College of Pharmacy, Patti, Amritsar Dec 2009.
- Delivered a lecture on “Government funding schemes for the promotions of Natural product research” in one day conference at Sagar Institute of Pharmacy, Bhopal in May 2010.
- Delivered a lecture on “NBA accreditation in Pharmacy Institutions” in one day conference at Sagar Institute of Pharmacy, Bhopal in May 2010.
- Delivered a lecture on Government initiatives in the promotions of Natural product research” in one day conference at NRI College of Pharmacy, Bhopal in May 2010.
- Delivered a lecture on “Perspectives of Pharmacy Education in India” in UGC sponsored Refresher course for faculty members in Pharmaceutical Sciences held at Department of Pharmacy Education and Research, South Campus, Bhaisnwal Kalan, BPS Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat, Haryana on 21/05/2012.
- Delivered a lecture on “Evaluation of Quality Parameters in Pharmacy Institutions” in UGC sponsored Refresher course for faculty members in Pharmaceutical Sciences held at Department of Pharmacy Education and Research, South Campus, Bhaisnwal Kalan, BPS Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat, Haryana on 21/05/2012.
- Delivered a lecture on “Indian Herbal Industry: QUEST for Global Acceptance” at International Conference on “Perspectives and Challenges in Pharmacy and healthcare systems” held at Manav Institute of Pharmacy, Jevra, Hisar during September 21-23, 2012.
- Delivered an invited lecture on “Secrets of Success” at INSPIRE program held at ISF College of Pharmacy, Moga, on October 29.10.2013.
- Resource person in One day workshop held at Department of Pharmaceutical Sciences on “Instrumental methods in Pharmaceutical Research” on November 28, 2013.
- Delivered an invited lecture on “Indian Herbal Industry: QUEST for Global Acceptance” during 19th Annual Convention and 2nd International Conference of Society of Pharmacognosy- 2015 (ICSP-2015) hosted by A. U. College of Pharmaceutical Sciences, Andhra University, Visakhapatnam from 20-22 March, 2015

### ***Academic achievements***

- Received “Award of Appreciation” by ISF Pharmacy College Managing Committee in 2005 based on students’ performance in exams and student research projects.
- Best research paper award for the presentation made during 12<sup>th</sup> Symposium of Indian Society of Pharmacognosy.
- Delivered lectures on improvement of the quality education in India at various platforms.
- Co-ordinated several expert committee visits for Accreditation (NBA) throughout India.
- Chaired a scientific session at 12<sup>th</sup> Congress of International Society for Ethnopharmacology (ISE) held at Science city, Kolkata during February 17-19, 2012.
- Chaired a scientific session at Indo-Bulgarian Conference on Recent Advances in Herbal Technology held at ISF College of Pharmacy, Moga, on September 7, 2013.
- Chaired a scientific session during UGC sponsored one day National Seminar held at Faculty of Pharmacy, Jamia Hamdard, New Delhi on February 1, 2014.
- Organising Secretary of 18<sup>th</sup> Annual Convention of Society of Pharmacognosy on theme “Promotion and Globalisation of Indian Herbal Products- Perspectives and Prospects” held at M. D. University during 21-22, February, 2014.
- Chaired a scientific session during International conference of ISE held at Chennai during March 7-9, 2014.
- Chaired a scientific session during 1<sup>st</sup> APTI Conference at Kurukshetra University, Kurukshetra on August 23-24, 2014.
- Chaired a scientific session during one day conference on Natural Plants organized by Department of Genetics, Maharshi Dayanand University, Rohtak on March 19, 2015.
- Chaired a scientific session during IPC held at Chitkara University, Rajpura, Punjab in December 2017.

### ***Other Activities***

Donated blood twice during programs organised by Youth Red Cross Society.

***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**