



## Prof. (Dr.) Harish Dureja

M. Pharm. (*Pharmaceutics*), Ph.D. (*Gold-Medalist*), AIC  
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## Positions

- ❖ Dean, Faculty of Pharmaceutical Sciences
- ❖ Head, Department of Pharmaceutical Sciences
- ❖ Director, Centre for IPR Studies
- ❖ Director, Professional Consultancy Cell
  
- ❖ Visiting Professor, ARCCIM, Faculty of Health, University of Technology Sydney, NSW 2007 Australia.

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## Experience (s)

- ❖ **Professor**/ Maharshi Dayanand University, Rohtak  
July 12, 2016 - PRESENT
- ❖ **Associate Professor**/ Maharshi Dayanand University, Rohtak  
July 12, 2013 - July 11, 2016
- ❖ **Reader** /Maharshi Dayanand University, Rohtak  
July 12, 2010 - July 11, 2013
- ❖ **Assistant Professor** /Maharshi Dayanand University, Rohtak

September 26, 2006 - July 11, 2010

- ❖ [Lecture/Assistant Professor](#)/ Maharshi Dayanand University, Rohtak  
November 02, 2000 - September 25, 2006 (On Contract)
  - ❖ [Lecturer](#)/ Rajiv Academy for Pharmacy, Matura (UP)  
February 28, 2000 - November 01, 20
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## Educational Qualifications

Teaching: 23 years

Research and Guidance: 20 years

- Ph. D. (2008) on the topic “Development of Mathematical Models for the Prediction of Biopharmaceutical, Biological and Physicochemical Properties of the Molecules” from Maharshi Dayanand University, Rohtak.
- [\(GOLD MEDAL with BEST THESIS AWARD\)](#).
- Master in Pharmacy in Pharmaceutics (2000) from Deptt. of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala. (Aggregate: 69%).
- Bachelor in Pharmacy (1997) from Dr. K. N. Modi Institute of Pharmaceutical Education and Research, Modi Nagar, Ch. Charan Singh University, Meerut. (Aggregate: 73%).
- Diploma in Pharmacy (1993) from Deptt. of Pharmacy, Pt. BDS PGIMS, Maharshi Dayanand University, Rohtak. (Aggregate: 64%).
- GATE - 97, IIT, Chennai: 85.64 Percentile.
- XII Class: 66% Board of School Education, Haryana (1991). X Class: 80% Board of School Education, Haryana (1989).
- Registered Pharmacist: Registration No. 7485 dt. 04.11.1994
- Associate of the Institution of Chemists (AIC) (December 2009) World Intellectual Property Organization’s General Course on Intellectual Property (April 2010)
- Professional Diploma in Clinical Research (February 2011)
- Online Courses: (i) **AI for everyone from Sanford University**  
(ii) **Herbal Medicine by University of Minnesota**  
(iii) **COVID-19: What You Need to Know by Osmosis.org**

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## Research Projects

- 2013/Optimization of nanoparticle drug delivery of anticancer drug(s)/ **Rs. 20, 00, 000/-** /Research Promotion Scheme/All India Council for Technical Education, New Delhi/**Principal Investigator**/Completed 2017 (13-01-2014 to 06-01-2017).
- **2014**/Nanoparticles-in-microparticles System (NiMS) for formulating mouth dissolving tablets of AcetazolamideRs. **10,000/-**/Deptt of Student Welfare, M. D. University, Rohtak/**Principal Investigator**/Completed 2015.
- **2015**/Statistically designed nanoliposomal delivery for anticancer drugs /**Rs. 14,19,000/-**/Major Research Project / University Grant Commission, New Delhi/**Principal Investigator**/Completed 2018 (01-07-2015 to 30-06-2018).
- **2017**/Formulation and Evaluation of Anticancer potential of *Lens culinaris* Medikus seeds/**Rs. 7,00,000/-** Haryana State Council for Science and Technology, Panchkula/**Principal Investigator**/Completed 2020. (06-01-2017 to 18-03-2020)
- **2018**/UGC-SAP-DRS-II/**Rs. 76,00, 000/-**/University Grant Commission, New Delhi/**Co- Principal Investigator**/Ongoing.
- 2022/Preparation, Optimization and Characterization of nanoparticle delivery systems targeting respiratory disorders/Post Seed grant/Rs. 3,00,000/-M. D. University, Rohtak. (ongoing- 2022 onwards)

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## Area of Research

- Nanoparticulate drug delivery (Nanomedicine)
- Regulatory Affairs
- Chemical Computation and In-silico ADME modeling
- Pharmaceutical Process Development

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## Patent Filing

Filed Indian Patent on

- Anti Dengue formulation (Application No. 202011013163)
  - Improved method of administration of Memordica Charantia L. dried seed extract for treatment of DIAB (App. No 202311062375)
  - A novel mucoadhesive film for insulin administration and preparation thereof (202311062374)
  - Buccal film for mucoadhesive administration of polypeptides for diabetes treatment (202311062376)
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## BOOK (s)

1. **Advanced Drug Delivery Systems for Colonic Disorders/Harish Dureja**, Raimar Loebenberg, Sachin Kumar Singh, Muralikrishnan Dhanasekaran, Kamal Dua/ Elsevier Inc/2023/ pages -463/ISBN: 9780443140440
2. **Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases/ Harish Dureja**, Jon Adams, Raimar Löbenberg, Terezinha de Jesus Andreoli Pinto, Kamal Dua/**Springer Nature**, Singapore/2023/ISBN:978-981-19-7655-1/<https://doi.org/10.1007/978-981-19-7656-8>
3. **A Treatise on Practical Pharmaceutical Engineering/Harish Dureja**, Viney Chawla, Pooja A Chawla/**Vallabh Prakashan, India/2023/ISBN: 978-93-85529-52-8**
4. **Drug Delivery Systems for Metabolic Disorder/Harish Dureja**, Narasimha Murthy, Peter R Wich and Kamla Dua/**Elsevier Inc/2022/ pages -527/ISBN: 978-0-323-99616-7**
5. **Industrial Pharmacy- II/Harish Dureja**, Kamal Dua/**Vallabh Prakashan, India/2022/ISBN: 978-93-85529-51-1**
6. **Nanoparticles for the Delivery of Anticancer Agents/Harish Dureja/LAP Lambert Academic Publishing; Year- 2016/Pages – 280/ ISBN: 978-3-659-87739-1.**

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## BOOK Chapter/Monographs

1. **2010/Eccentricity Based Descriptors for QSAR/QSPR/A. K. Madan and Harish Dureja/Novel Molecular Structure Descriptors - Theory and Applications II/Mathematical Chemistry Monographs No. 9 {Gutman I., Furtula B. (Eds.)}/University of Kragujevac and Faculty of Science, Kragujevac, Serbia; 2010; pp.91-138; ISBN:978-86-81829-99-8**
2. **2010/Applications of Eccentric Connectivity Index/A. K. Madan and Harish Dureja/Novel Molecular Structure Descriptors - Theory and Applications II/Mathematical Chemistry Monographs No. 9 {Gutman I., Furtula B. (Eds.)}; University of Kragujevac and Faculty of Science, Kragujevac Serbia; 2010;pp.247-268/ISBN:978-86-81829-99-8**
3. **2011/Models for the Prediction of A3 Adenosine Receptor Binding Affinity of 2-Chloro-N6-substituted -4'- thioadenosine -5'-uronamides/Rakesh K. Goyal, Harish Dureja, G. Singh, and A. K. Madan/Mihai V. Putz Nova Science Publisher, USA; 2011;pp.309-325/ISBN:978-1-61209-669-8**
4. **2012/Classification Models for Safe Drug Molecules/A.K. Madan, Sanjay Bajaj and Harish Dureja/Computational Toxicology, Volume II Series: Methods in Molecular Biology, Vol. 930; Reisfeld, Brad; Mayeno, Arthur N. (Eds.)/Humana Press, Springer Science, NY; 2012; pp. 148/ISBN:978-1-62703-058-8**
5. **2012/Prediction Of Pharmacokinetic Parameters/A.K. Madan and Harish Dureja/Computational Toxicology Volume I/Series: Methods in Molecular Biology, Vol. 929/Reisfeld, Brad; Mayeno, Arthur N. (Eds.)/Humana Press, Springer Science, NY; 2012; pp. 156/ISBN:978-1-62703-049-6**
6. **2012/Pendentivity Based Descriptors for QSAR/QSPR/Harish Dureja and A. K. Madan/Distance in Molecular Graphs - Applications/Mathematical Chemistry Monographs No. 13 {Gutman I., Furtula B. (Eds.)};/University of Kragujevac and Faculty of Science, KragujevacSerbia; 2012; pp. 55-80. ISBN:978-86-6009-015-9**

7. **2012**/Models for Prediction of BRAF Inhibitory Activity of 2,6-Disubstituted Pyrazines/R. Dutt, **Harish Dureja** and A.K. Madan *Advances in Chemical Modeling*. Volume 3; Chapter 30/Mihai V. Putz/Nova Science Publishers, NY, USA;2012;pp.383-408. ISBN:**978-1-62257-110-9**
8. **2016**/Nanoparticles in Anticancer Drug Delivery/Deepti Pandita, Sandeep Kumar, Viney Lather, Parijat Pandey and **Harish Dureja**/*Encyclopedia of Nanoscience and Nanotechnology*, 25-Volume Set/Hari Singh Nalwa/ American Scientific Publisher, California, USA; 1-58883-001-2 (vols. 1-10, 2004) plus-58883-159-0
9. **2020**/Pendentancy Based Molecular Descriptors For QSAR/QSPR Studies Naveen Khatri, **Harish Dureja**, A. K. Madan *New Frontiers in Nanochemistry: Concepts, Theories, and Trends*, Volume – 3/M.V. Putz (Ed.),/Apple Academic Press & CRC Press of Taylor & Francis pp. 333-346/ISBN: 9781771887809
10. **2020**/Super Augmented Eccentric Connectivity Indices and their Significance in Drug Discovery Process /Rohit Dutt, **Harish Dureja**, A. K. Madan/*New Frontiers in Nanochemistry: Concepts, Theories, and Trends*, Volume – 3/M.V. Putz (Ed.),Apple Academic Press & CRC Press of Taylor & Francis /pp: 457-470. ISBN: 9781771887809
11. **2020**/Current status of topology based molecular descriptors/Rakesh Kumar Marwaha, **Harish Dureja**, A.K. Madan/*New Frontiers in Nanochemistry: Concepts, Theories, and Trends*, Volume -2 /M.V. Putz (Ed.),/Apple Academic Press & CRC Press of Taylor & Francis ISBN: 9781771887809
12. **2020**/Classification Models Using Decision Tree, Random Forest And Moving Average Analysis/Rohit Dutt, **Harish Dureja**, A.K. Madan/*New Frontiers in Nanochemistry: Concepts, Theories, and Trends*, Volume – 3/M.V. Putz (Ed.),/Apple Academic Press & CRC Press of Taylor & Francis /Pp. 91-116.ISBN: 9781771887809
13. **2020**/Applications of Randic Index And Its Variants/Monika Singh, **Harish Dureja**, A. K. Madan/*New Frontiers in Nanochemistry: Concepts, Theories, and Trends*, Volume – 2/M.V. Putz (Ed.), Apple Academic Press & CRC Press of Taylor & Francis ISBN: 9781771887809
14. **2020**/Obesity and Diabetes: Pathophysiology of Obesity-Induced Hyperglycemia and Insulin Resistance/Gaurav Gupta, Ridhima Wadhwa, Parijat Pandey, Sachin Kumar Singh, Monica Gulati, Saurabh Sajita, Meenu Mehta, Avinash Kumar Singh, **Harish Dureja**, Trudi Collet, Kavita Pabreja, Dinesh Kumar Chellappan, Kamal Dua/*In: Pathophysiology of Obesity-Induced Health Complications. Advances in Biochemistry in Health and Disease*, Tappia P., Ramjiawan B., Dhalla N. (eds) vol 19. Springer, Cham, Switzerland.ISBN: 978-3-030-35357-5
15. **2020**/Pulmonary Bioadhesive Drug Delivery Systems and Their Applications/Ridhima Wadhwa, Subhashini Bharathala, Taru Aggarwal, Nikita Sehgal, Nitesh Kumar, Gaurav Gupta, Dinesh Kumar Chellappan, Pawan Kumar Maurya, Terezinha De Jesus Andreoli Pinto, Trudi Collet, **Harish Dureja**, Philip M. Hansbro and Kamal Dua/*In: Bioadhesives in Drug Delivery*, K.L. Mittal, IS Bakshi and JK Narang (eds.) pp. 371–390; Scrivener Publishing LLC. ISBN: 9781119640196
16. **2020**/Nanomedicine advances in cancer therapy/Nikita Hinge, Murali Monohar Pandey, Gautam Singhvi, Gaurav Gupta, Meenu Mehta, Saurabh Satija, Monica Gulati, **Harish Dureja**, Kamal Dua/*Advanced 3D-Printed Systems and Nanosystems for Drug Delivery and Tissue Engineering*, In: Lisa C. du Toit, Pradeep Kumar, Yahya E. Choonara, Viness Pillay (Eds.); Woodhead Publishing Series in Biomaterials, pp. 219-253; Elsevier Inc. ISBN:978-0-12-818471-4
17. **2020**/Edible pulses: a part of a balanced diet to manage cancer/Garg V, Vohra K, **Dureja Harish**. In: *Promising Drug Molecules of Natural Origin*/Rohit Dutt, Anil K. Sharma, Raj K. Keservani, Vandana Garg (Eds)/Apple Academic Press, Ontario, Canada. ISBN: 9781771888868
18. **2020**/Advancement in Translational Respiratory Research using Nanotechnology/Parijat Pandey, Deepika Purohit, Dinesh Kumar Chellappan, Gaurav Gupta, Murtaza Tambuwala, Alaa A. Aljabali, **Harish Dureja** (chapter 10; pp 211-226)/*In: Nanoformulations in human health: Challenges and Approaches*, Talegaonkar, Sushama, Rai, Mahendra (Eds.)/Springer International Publishing, Springer Nature Switzerland .ISBN: 978-3-030-41857-1

19. **2020/** Emerging Nanotechnology in Chronic Respiratory Diseases/Parijat Pandey, Meenu Mehta, Shakti Shukla, Ridhima Wadhwa, Gautam Singhvi, Dinesh Kumar Chellappan, Saurabh Satija, Gaurav Gupta, Rajendra Awasthi, Parteek Prasher, Philip M. Hansbro, Kamal Dua & Harish Dureja (chapter 18, pp 449-468) pp-/ In: Nanoformulations in human health: Challenges and Approaches, Talegaonkar, Sushama, Rai, Mahendra (Eds.)/Springer International Publishing, Springer Nature Switzerland .ISBN: 978-3-030-41857-1 [https://doi.org/10.1007/978-3-030-41858-8\\_20](https://doi.org/10.1007/978-3-030-41858-8_20)
20. **2021/**Advanced drug delivery system in pancreatic cancer (Chapter-20)/Vimal Arora, Dinesh Kumar Chellappan, Krishnan Anand, and Harish Dureja/In: Advanced Drug Delivery Systems in the Management of Cancer/Kamal Dua, Meenu Mehta, Terezinha de Jesus Andreoli Pinto, Lisa G. Pont, Kylie A. Williams, Michael J. Rathbone (Eds.)/ Academic Press, Elsevier, Kidlington, Oxford OX5 1GB, United Kingdom/ISBN 978-0-323-85503-7
21. **2021/**Biosynthetic exosome nanoparticles isolation, characterization, and their diagnostic and therapeutic applications (Chapter -30)/Krishnan Anand, Balakumar Chandrasekaran, Gaurav Gupta, Harish Dureja, Sachin Kumar Singh, Monica Gulati, Dinesh Kumar Chellappan, Balamuralikrishnan Balasubramanian, Ireen Femeela, Vijaya Anand Arumugam, and Kamal Dua/In: Advanced Drug Delivery Systems in the Management of Cancer/Kamal Dua, Meenu Mehta, Terezinha de Jesus Andreoli Pinto, Lisa G. Pont, Kylie A. Williams, Michael J. Rathbone (Eds.)/ Academic Press, Elsevier, Kidlington, Oxford OX5 1GB, United Kingdom/ISBN 978-0-323-85503-7
22. **2021/**Exploring the potential of medicinal plants in Lung Cancer (Chapter -11)/Anju Dhiman and Harish Dureja/Medicinal Plants for Lung Diseases: A Pharmacological and Immunological Perspective/ Dua, K., Nammi, S., Chang, D., Chellappan, D.K., Gupta, G., Collet, T. (Eds.), Springer Nature, Singapore/ ISBN:978-981-3368-49-1 (DOI: [10.1007/978-981-33-6850-7\\_11](https://doi.org/10.1007/978-981-33-6850-7_11))
23. **2021/**Nanocelluloses in Sensing Technology: Design, Preparation, and Applications/Alaa A. A. Aljabali, Mohammad A. Obeid, Mazhar S. Al Zoubi, Nitin Bharat Charbe, Dinesh Kumar Chellappan, Vijay Mishra, Harish Dureja, Gaurav Gupta, Parteek Prasher, Kamal Dua, Rasha M. Elnashar, Murtaza M. Tambuwala, Ahmed Barhoum/A. Barhoum (ed.), Handbook of Nanocelluloses: Classification, Properties, Fabrication, and Emerging Applications/Springer Nature Switzerland AG 2021 /pp1-37/ISBN:978-3-030-62976-2/ DOI: [https://doi.org/10.1007/978-3-030-62976-2\\_44-1](https://doi.org/10.1007/978-3-030-62976-2_44-1)
24. **2021/**Nanocelluloses as a Novel Vehicle for Controlled Drug Delivery/Alaa A. A. Aljabali, Mohammad A. Obeid, Meriem M. Rezigue, Alaa Alqudah, Nitin Bharat Charbe, Dinesh Kumar Chellappan, Vijay Mishra, Dinesh M. Pardhi, Harish Dureja, Gaurav Gupta, Parteek Prasher, Kamal Dua, Ahmed Barhoum, and Murtaza M. Tambuwala/A. Barhoum (ed.), Handbook of Nanocelluloses: Classification, Properties, Fabrication, and Emerging Applications/Springer Nature Switzerland AG 2021/pp1-30/ISBN:978-3-030-62976-2/DOI: <https://doi.org/10.1007/978-3-030-62976-2>
25. **2022/**Alaa A. A. Aljabali, Mazhar S. Al Zoubi, Khalid M. Al-Batanyeh, Alaa Alqudah, Mohammad A. Obeid, Parteek Prasher, Vijay Mishra, Gaurav Gupta, Poonam Negi, Deepak N. Kapoor, Harish Dureja, Saurabh Satija, Dinesh Kumar Chellappan, Kamal Dua, Murtaza M. Tambuwala/Chapter -3/Designing and Synthesis of Green Polymeric Nanomaterials for Pharmaceutical Applications/Green Nanomaterials: Sustainable Technologies and Applications Edited By Kaushik Pal/1st Edition/Apple Academic Press/Pages 18/ ISBN9781003130314/DOI:<https://doi.org/10.1201/9781003130314>
26. **2022/** Alaa A.A.Aljabali, Mohammad A.Obeid, Sura A.Awadeen, Eman M.Migdadi, Ahmed Barhoum, Mazhar S. Al Zoubi, Dinesh Kumar Chellappan, Vijay Mishra, Nitin B.Charbe, Harish Dureja, Gaurav Gupta, Parteek Prasher, KamalDua, Murtaza M. Tambuwala/Chapter 2 - Nature bioinspired and engineered nanomaterials/In: Micro and Nano Technologies, [Fundamentals of](#)

Bionanomaterials, Editor(s): Ahmed Barhoum, Jaison Jeevanandam, Michael K. Danquah, Elsevier, Inc., Pages 31-58, ISBN: 978-0-12-824147-9; , Doi: <https://doi.org/10.1016/B978-0-12-824147-9.00002-9>.

27. **2022**/Three-Dimensional Printing: Future of Pharmaceutical Industry (Chapter 18)/Manju Bala, Anju Dhiman, **Harish Dureja**, Munish Garg, Pooja A Chawla, Viney Chawla//Nanopharmaceuticals in Regenerative Medicine, Editor(s) Harish kumar Madhyastha, Durgesh Nandini Chauhan, CRC Press, Boca Raton, Pages 329-342, ISBN:978-0-367-72113-8, DOI: <https://doi.org/10.1201/9781003153504>
28. **2022**/Chemical Moieties as Advanced Therapeutics for Targeting Respiratory Disorders (Chapter 4)/Parteek Prasher, Mousmee Sharma, Deepak N. Kapoor, Poonam Negi, Gaurav Gupta, Flavia C. Zacconi, Murtaza M. Tambuwala, Meenu Mehta, Saurabh Satija, Harish Dureja, Dinesh Kumar Chellappan, Kamal Dua/ Editors: Chellappan, D.K., Pabreja, K., Faiyazuddin, M., Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases, Springer, Singapore, Pages 75-93, ISBN: 978-981-16-4392-7, DOI: [https://doi.org/10.1007/978-981-16-4392-7\\_4](https://doi.org/10.1007/978-981-16-4392-7_4)
29. **2022**/Vesicular Drug Delivery Systems in Respiratory Diseases (Chapter 7)/Saurabh Satija, Daljeet Singh Dhanjal, Parvarish Sharma, Md Sadique Hussain, Yinghan Chan, Sin Wi Ng, Parteek Prasher, Harish Dureja, Chirag Chopra, Reena Singh, Gaurav Gupta, Dinesh Kumar Chellappan, Kamal Dua, Meenu Mehta/ Editors: Chellappan, D.K., Pabreja, K., Faiyazuddin, M., Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases, Springer, Singapore, Pages 125-141, ISBN: 978-981-16-4392-7, DOI: [https://doi.org/10.1007/978-981-16-4392-7\\_4](https://doi.org/10.1007/978-981-16-4392-7_4).
30. **2022**/Nisha Gulati, Kamal Dua, Harish Dureja, Advanced drug delivery systems for targeting obesity, Editors: Harish Dureja, S. Narasimha Murthy, Peter R. Wich, Kamal Dua/Drug Delivery Systems for Metabolic Disorders/Elsevier, Inc./Pages 207-215/ISBN: 978-0-323-99616-7/DOI: <https://doi.org/10.1016/B978-0-323-99616-7.00028-1>
31. **2022**/Vimal Arora, Atul Kabra, Ritika Puri, Govind Vyas, Kamal Dua, Harish Dureja/ Emerging drug delivery in the treatment of hyperpituitarism and hypopituitarism (Chapter -17)/ Editors: Harish Dureja, S. Narasimha Murthy, Peter R. Wich, Kamal Dua/Drug Delivery Systems for Metabolic Disorders/Elsevier, Inc./Pages 249-257/ISBN: 978-0-323-99616-7/DOI: <https://doi.org/10.1016/B978-0-323-99616-7.00004-9>.
32. **2022**/Nitin Verma, Komal Thapa, Neha Kanojia, Harish Dureja, Kamal Dua/Advanced drug delivery systems targeting metabolic disorders: erythropoietic protoporphyria (chapter -7)/Editors: Harish Dureja, S. Narasimha Murthy, Peter R. Wich, Kamal Dua/Drug Delivery Systems for Metabolic Disorders/Elsevier, Inc./Pages 85-95/ISBN: 978-0-323-99616-7/ DOI: <https://doi.org/10.1016/B978-0-323-99616-7.00024-4>
33. **2022**/Vimal Arora, Atul Kabra, Ram Babu Sharma, Harish Dureja, Kamal Dua/Advanced drug delivery system in the treatment of hyperglycemia and hypoglycemia (chapter -16)/ Editors: Harish Dureja, S. Narasimha Murthy, Peter R. Wich, Kamal Dua/Drug Delivery Systems for Metabolic Disorders/Elsevier, Inc./Pages 233-247/ISBN: 978-0-323-99616-7/DOI: <https://doi.org/10.1016/B978-0-323-99616-7.00019-0>.
34. **2023**/Elucidating the Molecular Mechanisms of Toxicity of Natural Polymer-Based Drug Delivery Systems Used in Various Pulmonary Disorders (chapter 22)/Suhrud Pathak, Kruthi Gopal, Jack Deruiter, Rishi M. Nadar, Satyanarayana Pondugula, Sindhu Ramesh, Kamal Dua, **Harish Dureja**, Randall Clark, Timothy Moore, Muralikrishnan Dhanasekaran/Editors:, **Harish Dureja**, Jon Adams, Raimar Löbenberg, Terezinha de

- Jesus Andreoli Pinto, Kamal Dua/Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases/ Springer Nature, Singapore/Pages 425-443/ISBN: 978-981-19-7655-1/ DOI: <https://doi.org/10.1007/978-981-19-7656-8>
35. 2023/Clinical Trials and Regulatory Issues of Natural Polymers Employed in Respiratory Disease/chapter 21/Tarif Hussian, Swagat Tripathy, Kamal Dua & Harish Dureja/Editors:, **Harish Dureja**, Jon Adams, Raimar Löbenberg, Terezinha de Jesus Andreoli Pinto, Kamal Dua/Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases/ Springer Nature, Singapore/Pages 407-424/ISBN: 978-981-19-7655-1/ DOI: <https://doi.org/10.1007/978-981-19-7656-8>
36. 2023/Introduction to Lung diseases/chapter 1/Sarita Rawat, Karuna Dhaundhiyal, Ishwar Singh Dhramshaktu, B. Tazneem, Roshan Salfi, Dinesh Kumar Chellappan, Harish Dureja, Sachin Kumar Singh, Kamal Dua & Gaurav Gupta/Editors:, **Harish Dureja**, Jon Adams, Raimar Löbenberg, Terezinha de Jesus Andreoli Pinto, Kamal Dua/Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases/ Springer Nature, Singapore/ISBN: 978-981-19-7655-1/ DOI: <https://doi.org/10.1007/978-981-19-7656-8>.
- 37.

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### *Research Publications*

#### 2001

1. **Dureja Harish**, Tiwary A. K. and Gupta Sunil, Simulation of Skin Permeability in Chitosan Membranes, International Journal of Pharmaceutics, 213, 193-98, 2001. (IF= 3.458) (ISSN: 0378-5173)([10.1016/S0378-5173\(00\)00666-9](https://doi.org/10.1016/S0378-5173(00)00666-9))

#### 2002

2. Chawla Viney and **Dureja Harish**, Chitosan - Preparation and Properties, Indian Drugs, 39 (4), 191-94, 2002. (ISSN: 0019-462X)
3. **Dureja Harish**, Sharma Rishi, Rathore Arvind and Lamba H.S., Permeability Evaluation of Transdermal Drug Delivery Systems, Journal of Science & Pharmacy, 3(4), 131-38, 2002. (ISSN: 0972-3897)
4. Saggi Jitender Singh, Sharma Rishi, **Dureja Harish** and Kumar Vipin, Benzimidazoles with Biphenyls: Synthesis of 5-substituted-2-n-propyl-1-[(2'-carboxy biphenyl-4-yl)-methyl] benzimidazoles, Journal of Indian Institute of Science, 82, 177-182, 2002. (ISSN: 0019-4964)

#### 2003

5. Singh Bijender, **Dureja Harish**, Sharma Rishi, Patil B.M., Effect of Vitamin E on the Impaired Gastrointestinal Activity of Streptozotocin-Induced Diabetic Rats, Indian Journal of Pharmacology, 35, 186-187, 2003. (IF= 0.583) ((ISSN:0253-7613)
6. **Dureja Harish**, Kaushik Deepak, Kumar Vipin and Sardana Satish, Regulatory Aspects of Dietary Supplements, Journal of Science & Pharmacy, 4(3), 89-96, 2003. (ISSN: 0972-3897)
7. **Dureja Harish**, Kaushik Deepak and Kumar Vipin, Developments in Nutraceuticals, Indian Journal of Pharmacology, 35, 363-372, 2003. (IF= 0.583) (ISSN: 0253-7613)



## 2004

8. **Dureja Harish** and Kaushik Deepak, Barcode in Pharmaceutical Industry, Chronicle Pharmabiz, 4, 8, 2004.
9. Kaushik Deepak, Saini, T. R. and **Dureja Harish**, Development of Olanzapine Melt-in-Mouth Tablets by Sublimation Technique, Journal of Pharmaceutical Research, 3(2), 35-37, 2004. (ISSN: 0973-7200)
10. Kaushik Deepak, **Dureja Harish** and Saini, T. R., Orally Disintegrating Tablets, Tablets & Capsules, 2, 30-36, 2004. (ISSN: 1549-9928)
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## 2023

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263. Rohilla, Seema, Ankur Rohilla, Sonia Narwal, Harish Dureja, and Deepak Prabhakar



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## Guest Editor

1. *Regulatory Stratagem in Healthcare Environment - Need for Success*/Applied Clinical Research, *Clinical Trials and Regulatory Affairs* Volume 2, Issue No. 3, 2015/Bentham Science Publishers
2. *Regulatory Audit and Compliance in Life Science Domain*/Applied Clinical Research, *Clinical Trials and Regulatory Affairs* Volume 4, Issue No.2, 2017/Bentham Science Publishers
3. *Nanoparticulate Drug Delivery Systems* *Current Nanomaterials*, Volume 2, Issue No. 3, 2017/Bentham Science Publishers
4. *Anticancer Drug-Loaded Nanoparticulate Drug Delivery*/Current Nanomedicine Volume 9, Issue 1, 2019/Bentham Science Publishers
5. *Regulatory Traits - Relevance To Contemporary Healthcare Environment (part-1)*/Applied Clinical Research, *Clinical Trials and Regulatory Affairs* Volume 6, Issue 1, 2019/Bentham Science Publishers
6. *Nanoformulations containing Phytochemicals or Herbal extracts*/Frontiers in Pharmacology (IF- 3.845) Volume 9, 2019/Frontiers, Avenue du Tribunal Fédéral 34 , Lausanne Switzerland.
7. *Regulatory Traits - Relevance To Contemporary Healthcare Environment (part-II)*/Applied Clinical Research, *Clinical Trials and Regulatory Affairs* Volume 6, Issue 3, 2019/Bentham Science Publishers.

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**Content Writer/ Reviewer**

**Content Writer for e-Pathshala program of Ministry of Human Resources Development for Post Graduate course of Pharmaceutical Sciences for the paper Novel Drug Delivery System II for following Modules:**

- *Module 1 – Introduction to Colloidal and Supramolecular Drug Delivery systems*
- *Module 2 – Materials for Colloidal Carrier Systems*

**Reviewer for following modules for e-Pathshala program of Ministry of Human Resources Development for Post Graduate course of Pharmaceutical Sciences for the paper Novel Drug Delivery System II:**

- *Module 11 – Introduction of Liposomes*
- *Module 12 – Preparation of Liposomes*
- *Module 13 – Characterization and Applications of Liposomes*
- *Module 29 – Introduction to Microsphere*
- *Module 30 – Preparation of Microsphere*
- *Module 31- Characterization and Applications of Microsphere.*

## Awards and Honors

- ❖ MDU- Research Incentive Award 2021- by Maharshi Dayanand University Rohtak
- ❖ **MDU Best Researcher Award 2020** by Maharshi Dayanand University Rohtak
- ❖ Dr. R.L. Nicore award for **Best article published in 2018** in Indian Journal of Pharmaceutical Education and Research, during 24th APTI National Convention on 11th October 2019.
- ❖ Awarded Young Pharmacy Teacher of the Year Award - 2014 by Association of Pharmaceutical Teachers of India, Haryana State Branch on 23<sup>rd</sup> August, 2014.
- ❖ Best Thesis Award (Ph.D.) with GOLD-MEDAL by Maharshi Dayanand University, Rohtak.
- ❖ First Prize in Pharmpeople.com's Essay Contest-2005 on "Pharmacy Education in India: Past, Present and Future" organized by Pharmpeople.com, Toronto, Canada.
- ❖ Best Paper Award "Prof. M.L. Khorana Memorial Prize Award – 2005 for publication Indian Journal of Pharmaceutical Sciences, 2005, 67(2), 169-174 during the 58<sup>th</sup> IPC at Mumbai.

## Recognition of Expertise

Reviewed the manuscripts for following Journals:

- ❖ *AAPS Pharmaceutical Science and Technology*
- ❖ *African Journal of Pure and Applied Chemistry*
- ❖ *Chemical Biology and Drug Design*
- ❖ *Current Drug Delivery*
- ❖ *Current Eye Research*
- ❖ *Drug Discovery Today*
- ❖ *E-Journal of Chemistry*
- ❖ *Eurasian Journal of Analytical Chemistry*
- ❖ *Indian Journal of Pharmacology*
- ❖ *Iranian Journal of Pharmaceutical Research*
- ❖ *Journal of Applied Mathematics and Computing*
- ❖ *Journal of Pharmaceutical Innovation*
- ❖ *Journal of Pharmaceutical Sciences*

- ❖ *Karbala International Journal of Modern Science*
  - ❖ *Mathematical Biosciences*
  - ❖ *Medicinal Chemistry Research*
  - ❖ *Molecular Diversity*
  - ❖ *PDA Journal of Pharmaceutical Science and Technology*
  - ❖ *Technology Transfer and Entrepreneurship*
  - ❖ *Therapeutic Innovation and Regulatory Science*
  - ❖ *International Journal of Biological Macromolecules*
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## Ph.D. Guidance

1. Deepak Kaushik/Formulation Development, Optimization and Evaluation of Taste Masked Dosage Forms/Awarded-2015/<http://hdl.handle.net/10603/302524>
2. Meenakshi Gupta/Development and Characterization of Nanoparticulate Drug Delivery for Anticancer drug(s)/Awarded -2018/<http://hdl.handle.net/10603/406519>
3. Dharmender Rathee/Design, Synthesis and Biological Evaluation of Novel Anticancer Agents Targeting Matrix Metalloproteinases and Multidrug Resistance/Awarded -2018/<http://hdl.handle.net/10603/216044>
4. Neeta/Optimization, Development and Characterization of Nanoparticles of Boswellic Acids for Cancer Treatment/Awarded-2018/<http://hdl.handle.net/10603/299372>
5. Seema Rohilla/Development and Characterization of Nanoliposomal Drug Delivery for an Anticancer Drug/Awarded-2018/<http://hdl.handle.net/10603/298580>
6. Parijat Pandey/Development, Optimization and Evaluation of an Anticancer Drug Loaded Polymeric Nanoparticles/Awarded-2018/
7. Sunil/Central Composite Designed Solid Lipid Nanoparticles of Antitubercular drug(s) /Awarded-2019/<http://hdl.handle.net/10603/299356>
8. Neeta Sharma/Pricing Regulation of Prescription Drug and its analysis across regulated and less regulated markets/Awarded-2020/<http://hdl.handle.net/10603/329386>
9. Kripa Vohra/Formulation and Evaluation of Anticancer potential of *Lens culinaris* Medikus seeds/Awarded -2020/<http://hdl.handle.net/10603/326442>
10. Reena Sheoran/Formulation of Nanoliposomes of Anticancer Drug using Pharmaceutical Experimental Design/Awarded-2021.
11. Sandeep Dhiman /A study on incessant coordination among global regulatory authorities and collaboration with pharmaceutical industry for selected products/Awarded 2021/<http://hdl.handle.net/10603/362689>
12. Mandeep Dahiya/Development, Optimization and Evaluation of Sorafenib Tosylate Loaded Superparamagnetic Nanoparticles for Anticancer Drug Delivery/awarded 2023
13. Virender Sachdeva/Formulation Development and Evaluation of Ananas Comosus for Anticancer Activity
14. Harpreet Khanuja/Quality by Design Approach on Nanocarrier Delivery of Sorafenib: Formulation and in vitro Characterization
15. Anjali Saharan/Formulation Development and Evaluation of Terminalia Catappa Linn for Antidiabetic Potential
16. Ajeet Pandey/Dissolution Enhancement of a BCS Class II Drug using QbD Approach
17. Kirpa Shanker Tiwari/Development and evaluation of an improved osmotic controlled release tablets of metformin hydrochloride
18. Nisha/Design, Optimization and Characterization of Nanoparticulate drug delivery system targeting respiratory disease(s)
19. Priynka/Bioavailability enhancement of selected BCS class II drugs
20. Tarif Hussain/A Study on Evolution of Digital Technology and its impact on Pharmaceutical Regulatory Environment

21. Gagan Dua/ A Study of Clinical Trials Digitization and Current Regulatory Environment Across Globe
  - 22.
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## Refresher Courses/ Training Programs

1. Quality Improvement Programme/15<sup>th</sup> to 29<sup>th</sup> March 2000/AICTE sponsored at College of Pharmacy, New Delhi
  2. Patent Awareness Workshop/21<sup>st</sup> December 2002/M.D. University, Rohtak.
  3. AICTE sponsored workshop Computational structure based drug design/4<sup>th</sup> to 6<sup>th</sup> December 2006/Jaypee University of Information Technology, Solan (H.P.)
  4. Orientation Course/4-week from February 2<sup>nd</sup> to 28<sup>th</sup>, 2009/Kurukshetra University, Kurukshetra
  5. Refresher Course in Pharmacy/May 11<sup>th</sup> to 31<sup>st</sup>, 2010. Kurukshetra University, Kurukshetra
  6. Training Programme of CPCSEA/6<sup>th</sup> Dec., and 7<sup>th</sup> Dec., 2018/CPCSEA, Ministry of Environment, Forest and Climate Change, New Delhi.
  7. Assessors' Orientation Programme /August 27<sup>th</sup>, 2019/National Assessment and Accreditation Council, New Delhi.
  8. Workshop cum Orientation Programme on Leadership in Educational Administration for Academic Administrators in Universities and Colleges organized by the Department of Educational Administration, January 19-21, 2022 at NIEPA, New Delhi (online mode)
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## Invited Lectures

1. Design of Experiments in Pharmaceutical Formulations/AICTE sponsored Staff Development program on Lecture Design and Delivery Methodologies/Ram Gopal College of Pharmacy, Gurgaon/December 7<sup>th</sup>, 2010.
2. Writing a Research Paper/AICTE sponsored Staff Development program on Lecture Design and Delivery Methodologies/Ram Gopal College of Pharmacy, Gurgaon/December 11<sup>th</sup>, 2010.
3. Design of Experiments in Pharmaceutical Formulations/Symposium on Advances in Drug Delivery Systems/Chitkara College of Pharmacy, Chitkara University, Rajpura, Punjab/March 8<sup>th</sup>, 2011.
4. Design of Experiments in Pharmaceutical Process and Formulations/ICAR sponsored summer school on Advances in Bioprocessing/Bioengineering and Quality assessment Techniques/Central Institute of Post Harvest Engineering and Technology, Ludhiana, Punjab/June 18<sup>th</sup>, 2011.
5. In silico ADME Modeling/ICAR sponsored summer school on Advances in Bioprocessing/Bioengineering and Quality assessment Techniques/Central Institute of Post Harvest Engineering and Technology, Ludhiana, Punjab/June 18<sup>th</sup>,

2011

6. Design of Experiments in Nanoformulations/AICTE sponsored national seminar on Nanoschool- Emerging Techniques, Novel And Innovative Strategies/JCDM College of Pharmacy, Sirsa/September 25, 2011.
7. Optimization in Herbal Formulations/AICTE sponsored Staff Development Programme on "Recent Advances in Herbal Drug Development and Standardization/Rajendra Institute of Technology and Science/April 04<sup>th</sup>, 2012.
8. Writing a Research Paper/UGC sponsored Refresher Course/B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat/May 28<sup>th</sup>, 2012.
9. Optimization in Pharmaceutical Formulations/UGC sponsored Refresher Course/B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat/May 28<sup>th</sup>, 2012.
10. *In silico* ADME Modeling/AICTE sponsored Staff Development program on Current Status and Future Perspective in Drug Discovery and Delivery Technologies/JCDM College of Pharmacy, Sirsa/June 26<sup>th</sup>, 2012.
11. Design of Experiments in Pharmaceutical Formulations/Alwar Scientific and Technological conference in Pharmaceutical Sciences and Pharma Quest 2013/Alwar College of Pharmacy,/February 22<sup>nd</sup>, 2013.
12. Design of Experiments/APTI Collaborated Academic staff college: Interactive workshop on Training Teachers for Tomorrow Need /Kurukshetra University, Kurukshetra/March 26<sup>th</sup>, 2013.
13. BCS based Biowaiver/AICTE sponsored Faculty Development Programme on Recent advances in novel drug delivery systems/JCDM College of Pharmacy, Sirsa/June 08<sup>th</sup>, 2013
14. Transdermal Drug Delivery Systems/AICTE sponsored Faculty Development Programme on Recent advances in novel drug delivery systems/JCDM College of Pharmacy, Sirsa/June 08<sup>th</sup>, 2013.
15. Design of Experiments in Pharmaceutical Formulations/AICTE and PTU sponsored Faculty Development Program on Recent Advances in Applied Analytical and Pharmaceutical Sciences/Rayat & Bahra Institute of Pharmacy, Sahauran, Mohali/December 18, 2013.
16. *In silico* ADME modelling/National Conference on Innovation in Engineering, Pharmaceutical, Legal and Management Sciences/Bahra University, Shimla/May 30<sup>th</sup>, 2014.
17. Preformulation/Faculty Development Programme/Rayat & Bahra Institute of Pharmacy, Sahauran, Mohali/July, 3<sup>rd</sup>, 2014.
18. Career Counseling –Job opportunities in Pharmaceuticals/Radio talk/All India Radio, Rohtak/October, 8<sup>th</sup>, 2014.
19. BCS based biowaivers: Regulatory Issues/APTI sponsored seminar on Emerging Trends in Pharmaceutical Education and Research/Hindu College of Pharmacy, Sonapat/April 1<sup>st</sup>, 2015
20. Pharmacist – Safe use of drugs/Continuing Pharmacy education programme/Haryana State Pharmacy Council at Bhiwani/August 30<sup>th</sup>, 2015
21. Pharmacist – Safe use of drugs/Pharmacist day celebration/Hindu College of Pharmacy, Sonapat/September 25<sup>th</sup>, 2015.
22. Formulation of Pharmaceutical Dosage Form by Experimental Design/Emerging Trends in Pharmacological Research and Pharmacy Practice/Rayat Bahra University, Mohali/October, 17<sup>th</sup>, 2015.
23. Design Of Experiment For the Formulation of Nanoparticles/Savitribai Phule Pune University sponsored seminar on Design Of Experiment For Formulation and Development/Bhousaheb Hiray Smarnika Samiti Trust's Institute of Pharmacy, Malegaon, Distt Nashik /January 23<sup>rd</sup>-24<sup>th</sup>, 2016
24. Magnetic Nanoparticles: Possibilities and challenges/Current Scenario in Novel

- Drug Delivery Systems/Sri Sai College of Pharmacy, Pathankot, Punjab/March 18<sup>th</sup>, 2016.
25. Design Of Experiment For the Formulation of Nanoparticles/APTI Haryana State Branch sponsored National Conference on Challenges and Opportunities in Drug Design and Development/Jan Nayak Ch. Devi Lal Memorial College of Pharmacy, Sirsa/April 23<sup>rd</sup>, 2016.
  26. Role of Pharmacist in management of Diabetes/National Pharmacy programme Celebrations/Hindu College of Pharmacy, Sonapat/23<sup>rd</sup> November, 2016.
  27. Role of Pharmacist in management of Diabetes/National Pharmacy programme Celebrations/Chitkara University, Rajpura (Punjab)/November, 26<sup>th</sup>, 2016
  28. Role of Pharmacist in management of Diabetes/National Pharmacy programme/Alwar Pharmacy College, Alwar (Rajasthan)/January, 19<sup>th</sup>, 2017.
  29. Curriculum for Pharmacy Course by Pharmacy Council of India (Panel Discussion)/3<sup>rd</sup> Annual Convention of APTI Punjab as National Conference on Interdisciplinary Trends in Pharmaceutical Research/University School of Pharmaceutical Sciences, Rayat-Bahra University, Mohali, Punjab/April 13<sup>th</sup>-14<sup>th</sup>, 2017.
  30. *In Silico* Classification Models for Predicting Pharmacokinetic Parameters/APTI sponsored national Conference on Emerging Trends in Computer Aided Drug Design and Delivery/School of pharmacy and Emerging Sciences, Baddi University, Baddi (Himachal Pradesh)/May 11, 2017.
  31. Writing Research Paper and Research Designs/One week workshop on Research methodology (Interdisciplinary)/Academic Staff College, BPSM Vishwavidyalaya, Khanpur Kalan/September 11<sup>th</sup>, 2017.
  32. Formulation of Pharmaceutical Dosage Form by Experimental Design/Centre for Pharmaceutical Professional Advancement/Krupanidhi College of Pharmacy, Banglore/ October 10<sup>th</sup>, 2017.
  33. Role of Pharmacist in management of Diabetes/Pharmacist day Programme/Department of Pharmacy, Indira Gandhi University, Rewari (Haryana)/October, 11<sup>th</sup>, 2017.
  34. Know Your Medicine: Ask Your Pharmacist/National Pharmacy week Celebrations Gurugram Global College of Pharmacy, Gurugram/October, 24, 2017.
  35. Formulation of Pharmaceutical Dosage Form by Design of Experiments/IPGA National Convention -2017 on Interdisciplinary Research in Pharmaceutical Sciences/ISF College of Pharmacy, Moga (Punjab)/October 28<sup>th</sup>-29<sup>th</sup>, 2017.
  36. Formulation Aspects of Suspensions and Emulsions/Deptt of Pharm Sciences, G.D. Goenka University, Gurugram/October 31<sup>st</sup>, 2017.
  37. Intellectual Property Rights/Deptt of Pharmacy, K.R. Mangalam University, Gurugram/October 31<sup>st</sup>, 2017.
  38. New Education Regulations by Pharmacy Council of India/Education Regulation Awareness programme/PDM college of Pharmacy, PDM University, Bahadurgarh/November 16<sup>th</sup>, 2017.
  39. Section 3(d) of Indian Patent Act: A critical Analysis/Deptt of Science and Technology sponsored workshop on IPR system; the fuel of Interest, to the fire of Genius/Indira Gandhi University, Meerpur, Rewari/March 21, 2018.
  40. Non-Compartment Modeling/M. M. Institute of Pharmacy, MM University, Mullana, Ambala/April 10<sup>th</sup>, 2018.
  41. Design of Experiments: Application in Pharmaceuticals Institute of Pharmaceutical Sciences, Kurukshetra University, Kurukshetra/April 10<sup>th</sup>, 2018.
  42. Formulation of Pharmaceutical Dosage Form by Design of Experiments/APTI sponsored Faculty Development Programme on Innovative and Effective Teaching and Research skills in Pharmacy/Swami Devi Dyal Institute of Pharmacy, Barwala,

- Panchkula/April 22th , 2018.
43. Intellectual Property Rights/Implication and Implications of Intellectual Property Rights in India/Deptt. of Education and IPR Cell, M. D. University, Rohtak/June 30<sup>th</sup>, 2018.
  44. Generic Drugs/Amity Institute of Pharmacy, Amity University, Gurugram/August 08<sup>th</sup>, 2018.
  45. Career Opportunities for Pharmacy aspirants/Induction Programme/School of Pharmaceutical Sciences, Starex University, Gurugram/August 08<sup>th</sup>, 2018.
  46. Design Of Experiment (DOE) Techniques In Research/Conference on Design on Experiments/Qsutra and School of Pharmaceutical Sciences, Lovely Professional University, Punjab/14<sup>th</sup> July, 2018.
  47. Design of Experiments for Pharmaceutical Formulations/Pharmacy Council of India sponsored CEP programme on Recent Industrial Approaches in Pharmaceutical Area : from Theory to Practice/Maharaja Ranjith Singh Punjab Technical University, Bhatinda, Punjab/September 27<sup>th</sup>, 2018
  48. Magnetic Nanoparticles: Possibilities and Challenges/MPCST sponsored National conference on Current Approaches and Advancements in Novel Drug Delivery Systems/IES Institute of Pharmacy, Bhopal (MP)/September 29<sup>th</sup>, 2018.
  49. Design of Experiments for Pharmaceutical Formulations/PCI sponsored Continuing Education Programme (CEP)Laureate Institute of Pharmacy, Kathog, Jawalamukhi, Kangra-HP /January 6<sup>th</sup>, 2019.
  50. Optimization Techniques In Research/Ten days faculty development program/Faculty Development Centre, M. D. University, Rohtak /February 09, 2019.
  51. Teaching and Research Methodology/Faculty Development Program On Teaching Pedagogy in the Digital Age: Opportunities and Challenges/M M School of Pharmacy, MM University, Sadopur, Ambala/May 4<sup>th</sup>, 2019.
  52. Design of Experiments for Pharmaceutical Formulations/PCI sponsored Continuing Education Programme (CEP) on Resurgence in Pharmaceutical Education/B.S. Anangpuria Institute of Pharmacy, Faridabad/March 15<sup>th</sup>, 2019.
  53. Pharmacist - Safe Use of Drugs/Guru Ram Dass College of Pharmacy, Amritsar/August 26<sup>th</sup>, 2019.
  54. Professional Development in Pharmacy/Faculty Development Program On Professional Development And Stress Management at Workplace/M M Institute of Pharmacy, MM University, Mullana, Ambala/November 22<sup>nd</sup>, 2019.
  55. Good Laboratory Practices/Certificate Course in Quality control and Quality Assurance/Centre for Skill Development, Kurukshetra University, Kurukshetra/December 6<sup>th</sup>, 2019.
  56. Good Documentation Practices and pharmacopoeias/Certificate Course in Quality control and Quality Assurance/Centre for Skill Development, Kurukshetra University, Kurukshetra/December 6<sup>th</sup>, 2019.
  57. Intellectual Property Rights/Faculty Development programme/Sh. L. N. Hindu College, Rohtak/December 20<sup>th</sup>, 2019.
  58. Copyright: Fair use and Infringement/Workshop on Intellectual Property Rights/Ch. Bansi Lal University, Bhiwani /February 07, 2020.
  59. Design Of Experiment in Pharmaceutical Research/E-workshop on DoE/Association of Pharmaceutical Teachers of India, Bangalore/May, 11, 12, 13 and 14, 2020.
  60. Artificial intelligence in Healthcare/International Webinar on Artificial Intelligence in Pharmaceutical and Health care /Pharmaceutical Royal International Society (PRISAL Foundation), Bhopal/May 16, 2020.
  61. Immunity boosting Nutraceuticals/Webinar on Herbal: Immunity boosting

- Nutraceuticals/Himachal Pradesh Technical University, Hamirpur and Laureate Institute of Pharmacy, Jawalamukhi, Kangra/June 22, 2020.
62. Copyright: Fair Use and Infringement/One week online short term course on Intellectual property rights and ethics, UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar/July 30th, 2020.
  63. Section 3(d) of Indian Patent Act: A critical analysis/One week online short term course on Intellectual property rights and ethics, UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar/July 31st, 2020.
  64. Artificial Intelligence in Healthcare/ Celebration of World Pharmacy Day/Panipat institute of Engineering, Panipat/September 25, 2020.
  65. Artificial Intelligence in Healthcare/ /Four Week Faculty Induction Program -01, UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar/October 03, 2020.
  66. Artificial Intelligence in Healthcare/Webinar/Lords University, Alwar/ November 3, 2020.
  67. Role of Pharmacists as Healthcare Warriors/Webinar on 59th National Pharmacy week-2020/ Geetanjali Institute of Pharmacy, Geetanjali University, Udaipur/November 18th, 2020.
  68. Career Advancement Scheme: Promotion of Teachers/online Four Week Faculty Induction Program -02, UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar/December 08, 2020.
  69. E-content Development/online Four Week Faculty Induction Program -02, UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar/December 16, 2020.
  70. Qbd in Pharmaceutical Research/online Refresher Course in Research Methodology, UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore/December 23, 2020.
  71. *In silico* classification models for Predicting pharmacokinetic parameters/AICTE sponsored online Short Term Training Programme on Computer Aided Drug Designing: A customized and innovative solution to the greatest challenges in Chemistry/Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy, Bela, Ropar, Punjab/January 11, 2021.
  72. Copyright: Fair Use and Infringement/21 day Interdisciplinary refresher Course (online mode)/ Faculty Development Centre, Maharshi Dayanand University, Rohtak/January 11, 2021.
  73. Section 3(d) of Indian Patent Act: A critical analysis/21 day Interdisciplinary refresher Course (online mode)/ Faculty Development Centre, Maharshi Dayanand University, Rohtak/January 12, 2021.
  74. Predicting pharmacokinetic parameters using *in silico* classification models/AICTE sponsored STTP on In Silico Drug Discovery And Design: Methods And Applications, Bapatla College of Pharmacy, Andhra Pradesh/February 01, 2021.
  75. Qbd in Pharmaceutical Research/1st National capacity building training workshop cum faculty development program on Manufacturing of tablets: Process, quality control and documentation/School of Pharmacy, Career Point University, Hamirpur, Himachal Pradesh, February 07, 2021.
  76. UGC CAS Regulations for promotion of Faculty/Online Four week Faculty Induction Programme-03, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/February 13, 2021.
  77. Online learning: Developing the e-content/Online Four week Faculty Induction Programme-03, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/February 18, 2021.
  78. Extension lecture on Quality by design/Deptt of Pharmaceutical Sciences, Ch Bansi



- Lal University, Bhiwani/February 24, 2021.
79. Extension lecture on Six sigma approach and CDSCO/Deptt of Pharmaceutical Sciences, Ch Bansi Lal University, Bhiwani/February 27, 2021.
  80. Extension lecture on Process Validation/Deptt of Pharmaceutical Sciences, Ch Bansi Lal University, Bhiwani/March 01, 2021.
  81. UGC Guidelines for Promotion under Career Advancement Scheme/Online Four week Faculty Induction Programme-04, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/March 05, 2021.
  82. Extension lecture on ICH guidelines/Deptt of Pharmaceutical Sciences, Ch Bansi Lal University, Bhiwani/March 06, 2021.
  83. UGC Guidelines for Promotion under Career Advancement Scheme/Online Four week Faculty Induction Programme, Faculty Development Centre, Maharshi Dayanand University, Rohtak/March 15, 2021.
  84. Statistical analysis and interpretation/Online Four week Faculty Induction Programme-04, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/March 23, 2021.
  85. Copyright: Infringement and fair use/Online Four week Faculty Induction Programme, Faculty Development Centre, Maharshi Dayanand University, Rohtak/March 24, 2021.
  86. Quality by design in Pharmaceutical Research/one week workshop on Research methodology and academic writing skills/Ch Ranbir Singh Institute of Social and Economic change and Faculty of Pharmaceutical Sciences, M. D. University Rohtak/April 08, 2021.
  87. *In silico* classification models for predicting pharmacokinetic parameters/AICTE sponsored Quality Improvement programme on In Silico Approaches in Drug Delivery/Birla Institute of Technology, Deemed University, Mesra, Ranchi, Jharkhand/ June 16, 2021.
  88. Design of Experiment in Pharmaceutical Research/One day Webinar on Qbd/The Oxford College of Pharmacy, Bangalore/June 24, 2021.
  89. Artificial Intelligence in Healthcare/First International Virtual Convention/Mesco Institute of Pharmacy Amroha (UP)/ June 26, 2021.
  90. CAS Promotion Criteria: The UGC Guidelines/Online Faculty Induction Programme-05, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/August 04, 2021.
  91. Copyright: Ethics and Fair Use/Online Faculty Induction Programme-05, UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/August 11, 2021.
  92. Quality by Design in Pharmaceutical Research/Workshop on Computer Assisted Formulation Development and ADMET Prediction/Bioinformatics Centre (Sponsored by Department of Biotechnology, Government of India), Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala/ September 07, 2021.
  93. Demonstrating Design of Experiment Software//Workshop on Computer Assisted Formulation Development and ADMET Prediction/Bioinformatics Centre (Sponsored by Department of Biotechnology, Government of India), Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala/ September 07, 2021.
  94. Quality by Design in Pharmaceutical Research/STC-2: Advances in Pharmaceutical Research (06 Sept - 11 Sept 2021)/QIP (Pharmacy) Center, Department of Pharmaceutical Technology, Jadavpur University, Kolkata/September 08, 2021.
  95. Quality by Design in Pharmaceutical Research/INTERNATIONAL CONFERENCE CUM RESEARCHER'S SUMMIT-2021- Research & Development in Pharmaceutical

Sciences: Updates and Perspectives/IEC School of Pharmacy, IEC University, Baddi, Himachal Pradesh (online) September 10-11, 2021.

96. Pharmacy: Career Opportunities and Professional Development/Induction Program/DVM College of Pharmacy, Sohna, Haryana/November 13, 2021.
97. Pharmacy: Career Opportunities and Professional Development/Fresher's Induction Program 2K21/Sat Priya College of Pharmacy, Rohtak, Haryana/November 29, 2021.
98. Pharmacy: Career Opportunities and Professional Development/ 60th National Pharmacy Week- Pharmacist : An integral part of Healthcare/Induction-Inauguration for 2021-22/ Alwar Pharmacy College, Alwar, Rajasthan/December 01, 2021.
99. Artificial Intelligence in Healthcare/Lords University Alwar, Rajasthan/December 01, 2021.
100. UGC CAS Guidelines for Promotion of Teachers/Online Faculty Induction Programme-06 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/October 05, 2021.
101. COPYRIGHT: Fair use and Infringement/Online Faculty Induction Programme-06 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/October 09, 2021.
102. Assessment and Accreditation: The NAAC Criteria/Online Faculty Induction Programme-06 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/October 29, 2021.
103. Artificial Intelligence in Healthcare/AICTE Sponsored Online Atal Academy Faculty Development Program (FDP) on "Design Thinking: A Patient-Centric Approach in Healthcare Industry"/Noida Institute of Engineering and Technology, (Pharmacy Institute), Greater Noida, UP/ December 15, 2021
104. CAS Guidelines for Promotion of Teachers: UGC/Online Faculty Induction Programme-07 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/December, 15, 2021.
105. Emerging Trends in Pharmaceutical Industry/Shanti Niketan college of Pharmacy, Mandi, Himachal Pradesh/December 24, 2021.
106. Artificial Intelligence in Healthcare/ Refresher Program Sponsored by AICTE-ISTE on "Technology Advancements and Emerging Trends in Pharmaceutical Education, ISF College of Pharmacy, Moga, Punjab/ December 27<sup>th</sup>, 2021.
107. NAAC Criteria: Assessment and Accreditation/Online Faculty Induction Programme-07 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/December, 28, 2021.
108. COPYRIGHT: Fair use and Infringement/Online Faculty Induction Programme-07 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/January, 04, 2022.
109. Leave Regulation: Central Civil Services Rules/Online Faculty Induction Programme-07 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/January, 08, 2022.
110. UGC Guidelines: Promotion Under CAS/UGC Sponsored Online Faculty Induction Programme-08 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/February 24, 2022.
111. NAAC: Assessment and Accreditation Criteria/UGC Sponsored Online Faculty Induction Programme-08 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/March, 01, 2022.
112. Copyright: The Ethical Considerations/UGC Sponsored Online Faculty Induction Programme-08 UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar/March, 16, 2022.

113. Design of Experiment in Pharmaceutical Research/Faculty Development Program (April 4-6)/ Latest Pedagogy Tools For Teaching And Innovative Research In Pharmacy/ Himalayan Institute of Pharmacy, Kala-Amb/April 05, 2022.
114. COPYRIGHT: Infringement and Fair Use/One day Workshop on IPR/Ch Bansi Lal University, Bhiwani/ April, 27, 2022.
115. Quality by Design in Pharmaceutical Research/Summer Seminar Series/Delhi Pharmaceutical Sciences and Research University, Delhi/May 27, 2022.
116. Design and Analysis of Experiments/Extension Lecture/Department of Pharmaceutical Sciences, Indira Gandhi University, Meerpur, Rewari/ July 22, 2022.
117. Digital Therapeutics: Pharmaceutical Regulatory Environment/Five-day International Conference on 'ADVANCEMENTS IN DRUG REGULATORY AFFAIRS: PHARMACEUTICAL INDUSTRY-ACADEMIA PERSPECTIVE' (ADRA-2022),organized by the Chitkara College of Pharmacy, Chitkara University, Punjab, India, on September, 27, 2022.
118. Artificial Intelligence in Healthcare/Pharmacy Week Celebration 2022/B S Anangpuria Institute of Pharmacy, Faridabad/ November 23, 2022.
119. Transforming Regulatory System of Higher Education/Workshop on Basic contours of NEP-2020/ M. D. University, Rohtak/ January 09-12, 2023.
120. Digital Therapeutics: Regulatory Challenges and Revolution in the Digital Era/72nd Indian Pharmaceutical Congress, Nagpur/January 20, 2023.
121. Pharmacy: Career Opportunities and Professional Development/Fresher's Induction Program/Pavitra Institute of Pharmacy, Sohna, Gurugram//February 03, 2023.
122. Quality by Design in Pharmaceutical Sciences/Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala/February 09, 2023.
123. Artificial Intelligence in Pharmaceutical Sciences/ Department of Pharmaceutical Sciences, Indira Gandhi University, Meerpur, Rewari/March 15, 2023.
124. Design of Experiments: Concepts and Implementation/Two-day National Symposium-cum-Workshop on "Contemporary Trends, Tools and Techniques in Pharma Quality by Design (QbD): From Conceptualization to Implementation", Panjab University, Chandigarh/April 20, 2023.
125. Illicit drug use among youths/5 days health awareness camp organized by Youth Red Cross, M. D. University, Rohtak/May 14, 2023
126. Emerging Pedagogical Practices for Skilling in Pharmaceutical Sciences, Quality by design in Pharmaceutical Research/Faculty Development Program, Chandigarh University, Mohali/July 07, 2023.
127. Regulatory Strategies of Digital Therapeutics: Revolution in 21<sup>st</sup> Century/ Innovation and Advances in Drug Development & Clinical Research' (IADDCR-2023), Chitkara University, Rajpura, Punjab/April 24, 2023.
128. Digital Therapeutics and Pharmaceutical Regulatory Environment/Recent Technological Trends and Advancements in Pharmaceutical Sciences/Academic and Administrative Development center and Amity Institute of Pharmacy/Amity University, Haryana/ October 12, 2023
- 129.

## Paper Presentation/Participation in Conference/Seminar

- ❖ AICTE sponsored National level Seminar/Recent Trends In Innovative Drug Discovery and Research/GGS College of Pharmacy, Yamunanagar/27<sup>th</sup>-29<sup>th</sup> Oct., 2006.

- ❖ APTI sponsored National seminar/Emerging trends in Pharmaceutical Education and Research/Lord Shiva College of Pharmacy, Sirsa/April 28, 2007.
- ❖ IPGA National seminar/Recent Trends in Pharmaceutical Education and Research at Rajendra Institute of Technology and Sciences, Sirsa/September, 29<sup>th</sup> – 30<sup>th</sup>, 2007
- ❖ Decision Tree Derived Models For Prediction Of Physico-Chemical, Pharmacokinetic And Toxicological Properties Of Antihistaminic/Drugs Innovations in Drug Discovery and Research, Punjabi University, Patiala/March 3<sup>rd</sup> – 5<sup>th</sup>, 2009.
- ❖ 14<sup>th</sup> National Convention of the Society of Pharmacognosy at Hindu College of Pharmacy, Sonapat/February 20<sup>th</sup>-21<sup>st</sup>, 2010.
- ❖ Box-behnken designed solid dispersion of ezetimibe/QbD in Pharma Development organized by Select Biosciences India Private Limited, Chandigarh/March 1<sup>st</sup>-2<sup>nd</sup>, 2013.
- ❖ Convergence of Biotechnology and Engineering for Industry at Department of Biotechnology/University Institute of Engineering and Technology, M. D. University, Rohtak/ November 26, 2014.
- ❖ Pricing Regulations in India/Ist Convention of APTI Rajasthan State Branch/ Emerging Trends in Pharmaceutical Education, Research and Regulatory Affairs, Udaipur/February, 13<sup>th</sup>-14<sup>th</sup>, 2015.
- ❖ Central Composite Designed Atorvastatin Loaded Chitosan Nanoparticles/Strategic approaches to strengthen academic and industrial collaboration (APTICON-2015)/DAVV Auditorium, Indore/October 9<sup>th</sup>-11<sup>th</sup>, 2015.
- ❖ Pharmaceutical Pricing: A strategic insight/APTICON-2016; 21<sup>st</sup> APTI Annual National Convention, Manipal University, Manipal/October 14<sup>th</sup>- 16<sup>th</sup>, 2016.
- ❖ National seminar on Awareness on Intellectual Property Rights sponsored by Deptt of Science and Technology, Haryana by Pt B D Sharma University of Health Sciences, Rohtak /March 17<sup>th</sup>, 2017.
- ❖ 8<sup>th</sup> AASP Conference/Integrating Pharmacy Education Practice and Research/The Asian Association of School of Pharmacy in association with Indian Association of Colleges of Pharmacy, JSS University, Mysuru/October 27<sup>th</sup>-29<sup>th</sup>, 2017.
- ❖ Apticon -2018/Challenges for global competitiveness of Pharmacy Practices relevant to education at Lloyd Institute of Management and Technology, Greater Noida/March 24<sup>th</sup>, 2018.
  - ❖ E-poster/Formulation, Characterization and Antiproliferative Effects of Boswellic Acids Loaded Chitosan Nanoparticles on Human Lung Cancer Cell Line A549/The Virtual conference on Lung Cancer, Bioevents Limited, UK/September 24<sup>th</sup>-25<sup>th</sup>, 2020.
- ❖ 4<sup>th</sup> Webinar on Nanotechnology and Nanomedicine/Oral Presentation/Magnetic Nanoparticles:possibilities and challenges/Longdom Conference, London, UK/November 12<sup>th</sup>, 2020.
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## **Session Chair in CONFERENCE/SEMINAR**

- ❖ IPGA- National Convention – 2012/The Future of Pharmacist: A Healthcare Professional/Kurukshetra University, Kurukshetra/November 17<sup>th</sup>-18<sup>th</sup>, 2012.
- ❖ 65<sup>th</sup>Indian Pharmaceutical Congress (Poster Evaluator)/Vision 2020: Empowering Pharmacist/Amity University, Greater Noida/December 20<sup>th</sup> – 22<sup>nd</sup>, 2013.
- ❖ IPGA sponsored Seminar/Role of Community Pharmacist in Handling of Antibiotics/ Institute of Pharmaceutical Sciences, Kurukshetra University, Kurukshetra/ April 12<sup>th</sup>, 2014.
- ❖ 1<sup>st</sup> Annual Conference of APTI Haryana State Branch/Indian Scenario of Pharmaceutical Education: Challenges and Future Prospective/Kurukshetra University, Kurukshetra/August 22<sup>nd</sup>

- 23<sup>rd</sup>, 2014.

- ❖ 1<sup>st</sup> APTI Convention of Punjab state Branch/Advancements, Opportunities and Future Vision of Indian Scenario of Pharmaceutical Education and Research/Rayat Bahra Institute of Pharmacy, Hoshiarpur, Punjab/April 3<sup>rd</sup>-4<sup>th</sup>, 2015.
- ❖ IPGA sponsored Seminar/Rational use of Antibiotics – Role of Pharmacist/Ch. Bansi Lal University, Bhiwani /August 28<sup>th</sup>, 2015.
- ❖ 30<sup>th</sup> Annual Conference of Indian Pharmacy Graduate Association/Role of Pharmacist in Digital Era/Air Force Auditorium, Subroto Park, New Delhi/October, 30<sup>th</sup>, 2015.
- ❖ National Conference on Pharmacovigilance/Drug Safety and Pharmacovigilance/Guru Gobind Singh College of Pharmacy, Yamunanagar (Haryana)/Dec., 6<sup>th</sup>, 2015.
- ❖ 67<sup>th</sup> Indian Pharmaceutical Congress/ Pharma Vision 2020; Pharmacists for a Healthy India/JSS University, Mysuru, Karnataka/Dec., 19<sup>th</sup> – 21<sup>st</sup>, 2015.
- ❖ RAJAPICON-2016/2<sup>nd</sup> Convention of APTI Rajasthan State Branch/Training for Pharmacy Teachers: Future Perspectives/Alwar Pharmacy College, Alwar, Rajasthan/March 11<sup>th</sup>-12<sup>th</sup>, 2016.
- ❖ 2<sup>nd</sup> Annual National Convention of APTI Punjab State Branch/Emerging Scenario in Human Resource Development for Pharmacy Profession/APTI Punjab State Branch and GPCG, Patiala/March 19<sup>th</sup>, 2016.
- ❖ APTI Haryana state Branch women Forum Programme/Women Pharmacists: Values and Voice in Global Health Scenario/ PDM College of Pharmacy, Bahadurgarh/April 1<sup>st</sup>, 2016.
- ❖ APTICON-2016/Golden Jubilee of APTI/21<sup>st</sup> APTI Annual National Convention/Manipal University, Manipal/October 14<sup>th</sup>- 16<sup>th</sup>, 2016.
- ❖ 68<sup>th</sup> Indian Pharmaceutical Congress (Poster Evaluator)/Quality Pharmaceuticals and Patient welfare/Andhra University, Visakhapatnam, AP/Dec., 16<sup>th</sup> – 18<sup>th</sup>, 2016.
- ❖ 1<sup>st</sup> National conference on Recent Advances and Challenges in Healthcare/Role of Technology in Transforming Healthcare/G. D. Goenka University, Gurugram/March 18, 2018.
- ❖ Phytocon-2018/International Conference on Commercialization of Medicinal Plant products: Lab Technique to Trade/School of Pharmaceutical Sciences, Lovely Professional University, Punjab/April 14<sup>th</sup>, 2018.
- ❖ APTICON-2018/23<sup>rd</sup> Annual National Convention of APTI/Innovative Teaching and Learning strategies in Pharmacy- Requirement and Barriers/Rajasthan APTI at Swami Keshvanand Institute of Pharmacy, Jaipur/October 5<sup>th</sup>-6<sup>th</sup>, 2018.
- ❖ 106<sup>th</sup> Indian Science Congress/Technical session of Medical Science including physiology/Lovely Professional University, Phagwara, Jalandhar, Punjab by Indian Science Congress Association/January 5<sup>th</sup>, 2019.
- ❖ Evaluator of Scientific abstract for DISSO RESEARCH PRESENTATIONS, INDIA 2020 -ONLINE organized by Society for Pharmaceutical Dissolution Sciences (SPDS) in collaboration with Association of Pharmaceutical Teachers of India (APTI) in June 2020.
- ❖ Scientific Committee Member and Evaluator or DISSO RESEARCH PRESENTATIONS, INDIA 2021 -ONLINE organized by Society for Pharmaceutical Dissolution Sciences (SPDS) in collaboration with American Association of Pharmaceutical Scientists, USA and Association of Pharmaceutical Teachers of India (APTI) in July 2021.
- ❖ Session Chairman in FIRST "Pharma Summit" on the theme, "Innovations, Start-ups, and Entrepreneurship" Organized by Department of Pharmacy, Panipat Institute of Engineering and Technology (PIET) on April 15-16, 2022.
- ❖ Scientific Committee Member and Evaluator or DISSO RESEARCH PRESENTATIONS, INDIA 2022 -ONLINE organized by Society for Pharmaceutical Dissolution Sciences (SPDS) in collaboration with American Association of Pharmaceutical Scientists, USA and Association of Pharmaceutical Teachers of India (APTI) in June 2022.
- ❖ Session Chairman in International Conference "Recent Advances and Challenges in Healthcare" (REACH 2022)- "Digital Healthcare in the Post COVID Era" organized by School of Medical and

Allied Sciences, G D Goenka University, Sohna, Gurugram on August, 23, 2022.

- ❖ Session Chairman in Indian Pharmacological Society 3rd North zone conference on Challenges and opportunities in experimental and clinical pharmacology in post covid era (ACEP-2023) organized by M. M. College of Pharmacy, M. M. University, Mulana on February 09, 2023.
- ❖ Session Chairman in ISFCON-2023, Two Days National Conference sponsored by AICTE, New Delhi on "Commercialization of Natural Products" organized by ISF College of Pharmacy, Moga on February 10, 2023.

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## Organizational Experience

- ❖ Organizing Secretary/32<sup>nd</sup> Inter-Zonal Youth Festival (UNIFEST-12)/M. D. University, Rohtak/October, 30<sup>th</sup>-31<sup>st</sup> and November, 1<sup>st</sup>, 2012.
- ❖ Organizing committee member/DSW sponsored one day workshop/ Instrumental Methods in Pharmaceutical Research/Deptt of Pharm. Sciences, M. D. University, Rohtak/November 28<sup>th</sup>, 2013.
- ❖ Organizing Committee Member/33<sup>rd</sup> Inter-Zonal Youth Festival (UNIFEST-13)/M. D. University, Rohtak/November, 8<sup>th</sup> - 10<sup>th</sup>, 2013.
- ❖ Organizing committee Member/ Alumni Meet/ M.D. University, Rohtak/February 25, 2014. ❖ Organizing Committee Member/Inter-Zonal Youth Festival/M. D. University, Rohtak/December, 14<sup>th</sup>-16<sup>th</sup>, 2014.
- ❖ Joint Secretary/18<sup>th</sup> Annual Convention of Society of Pharmacognosy /Department of Pharmaceutical Sciences, M. D. University, Rohtak/February 21<sup>st</sup>-22<sup>nd</sup>, 2014.
- ❖ Organizing Committee Member/UGC Sponsored National Seminar/Recent Trends and Innovations in Pharmaceutical Research/Department of Pharmaceutical Sciences, M. D. University, Rohtak/March 8<sup>th</sup>, 2014.
- ❖ Organizing Committee Member/Folk Festival/M. D. University, Rohtak/March 06, 2015. ❖ Organizing Secretary/Workshop on schedule Y and Good Clinical Practices/Institutional Human Ethics Committee, M. D. University, Rohtak/July 20<sup>th</sup>, 2015.
- ❖ Organizing Secretary/Annual APTI Conference -Future of Pharmacy Profession: Role of Pharmacy Teachers/M. D. University, Rohtak/October, 24<sup>th</sup>-25<sup>th</sup> 2015.
- ❖ Judge/HIV/AIDS awareness and prevention program/Youth Red Cross Office, M. D. University, Rohtak/December, 1<sup>st</sup>, 2015.
- ❖ Coordinator Competitive Events (Stage IV)/National Youth Festival (india)/Govt of Haryana M.D. University, Rohtak/January, 12<sup>th</sup>-16<sup>th</sup> 2017.
- ❖ Organizing Committee Member/ 37<sup>th</sup> National Youth Festival/M.D. University, Rohtak/November, 17<sup>th</sup>-19<sup>th</sup>, 2017.
- ❖ Chairman- Scientific Services Committee (LOC)/69<sup>th</sup> Indian Pharmaceutical Congress/Skill and Will to make and serve Quality Pill/Chitkara University, Rajpura (Punjab)/December 22<sup>nd</sup> - 24<sup>th</sup>, 2017.
- ❖ Organizing Committee Member/UGC sponsored National Conference and Awareness Programme /Protection of Intellectual Property Rights- Need of the hour/Department of Pharmaceutical Sciences, M. D. University, Rohtak/May 10<sup>th</sup>, 2018.
- ❖ Convener/Implication and implementation of intellectual property rights (IPR) in india/IPR Cell and Deptt of Education, M. D. University, Rohtak/June 24, 2018.
- ❖ Convener/Intellectual Property Rights Protection/Haryana State Council of Science and Technology, Panchkula sponsored National Workshop/M. D University Rohtak/November 3<sup>rd</sup>, 2018.
- ❖ Co-patron/National Workshop on Intellectual property rights: protection, ownership and Innovation/Deptt of Education in collaboration with IPR cell, M. D. University, Rohtak/December

15<sup>th</sup>, 2018.

- ❖ Convener/National Conference on Intellectual Property Rights: Policies for Research and Innovation/Deptt of Zoology and IPR Cell, M. D. University, Rohtak/January, 19<sup>th</sup> 2019.
- ❖ Convener/International Workshop on Intellectual Property Rights Centre for Medical Biotechnology and IPR Cell, M. D. University, Rohtak/February 11<sup>th</sup>, 2019.
- ❖ Convener/National Seminar On Innovation Practices In Farming/Institution Innovation Council, M. D. University, Rohtak/February 23<sup>rd</sup>, 2019.
- ❖ Convener/ National Workshop on Start-ups, Innovation and Entrepreneurship Awareness Program Ministry of Micro,small and medium enterprise (MSME), Haryana and Institution Innovation Council, M. D. University, Rohtak/March 6<sup>th</sup>, 2019
- ❖ Convener/Haryana State Council of Science and Technology, Panchkula sponsored International Conference on Prospects of IPR in Innovative practices/IPR cell and Deptt of Pharmaceutical Sciences, M. D. University, Rohtak/August 19<sup>th</sup>, 2019.
- ❖ Convener/International Workshop on Industry Academia Interaction: bridging the gap/Professional Consultancy Cell, M. D. University, Rohtak/November 26<sup>th</sup> 2019.
- ❖ Deputy Course Coordinator/One week GIAN program/Ethnopharmacology- challenges and opportunities at the face of globalization/Department of Pharmaceutical Sciences, M. D. University, Rohtak sponsored by MHRD, New Delhi under the scheme of Global Initiative of Academic Network/December 14<sup>th</sup>-18<sup>th</sup>, 2019.
- ❖ Convener/INTERNATIONAL WORKSHOP ON PATENT FILING/Intellectual Property Right Cell, Maharshi Dayanand University, Rohtak/ January, 24<sup>th</sup>- 25<sup>th</sup>, 2020.
- ❖ Judge/Scientific models and scientific posters/National Science week celebration 2021/Indira Gandhi University, Rewari/February 25, 2021.
- ❖ Convener/Webinar on the Role of IPR in technology transfer/Centre for IPR Studies, Maharshi Dayanand University, Rohtak/ June 19, 2021.

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## M. Pharm. Supervision

1. **2004-05**/Ms. Deepti/Studies on novel techniques for improvement of dissolution rate and content uniformity using glibenclamide as a model drug.
2. **2005-06**/Ms. Monika/Development of sustained release solid dispersion for soluble drug and sparingly soluble drug using factorial design.
3. **2006-07**/Mr. Balwan Singh/Development and evaluation of porous solid dispersions of glimepiride using factorial design.
4. **2006-07**/Mr. Devender/Generic Drugs: Global issues and regulatory control
5. **2007-08**/Ms. Jyotsana/Study on influence of critical variables in high shear wet granulation on dissolution profile of furosemide.
6. **2007-08**/Ms. Deepti Kaushik/Marketing authorization of generic drugs: global issues and challenges
7. **2008-09**/Mr. Manjeet Kumar/Development and characterization of factorially designed 5-fluorouracil microspheres.
8. **2008-09**/Ms. Ruchika Swami/BCS based biowaivers: regulatory issues and challenges
9. **2008-09**/Mr. Dinesh Kumar/Regulatory aspects of Pharmaceutical excipients
10. **2009-10**/Mr. Vipin Kumar/Permeability evaluation through chitosan membranes
11. **2009-10**/Mr. Dulichand/Drug approval process: Global issues and Regulatory control
12. **2009-10**/Ms. Neelam/Box-Behnken designed solid dispersions of Ezetimibe
13. **2010-11**/Mr. Rattan Lal/5-FU Loaded chitosan nanoparticles
14. **2010-11**/Mr. Jaideep/Bioanalytical method development and validation for the estimation of Olmesartan in Human Plasma using LC-MS/MS
15. **2010-11**/Ms. Chetna/Prescription drug labeling: significance and regulatory requirements
16. **2010-11**/Mr. Vinod/Regulatory aspects of pharmaceutical impurities
17. **2011-12**/Mr. Sandeep Goel/Method development for quantification of beta form of Imatinib mesylate using powder X-ray diffraction technique

18. **2011-12/Mr. Naresh Sarasar/Taste masking of levocetirizine dihydrochloride with ion exchange resin using factorial design.**
19. **2011-12/Ms. Jyoti/Cosmetic regulations around the globe.**
20. **2011-12/Ms. Vandana/Product Lifecycle Management in Pharmaceuticals: Regulatory issues and challenges.**
21. **2011-12/Ms. Nidhi Garg/Preparation, optimization and characterization of Multifunctional directly co-processed excipient**
22. **2011-12/Mr. Amit Kumar/Compromised anti-anxiety effect of non-benzodiazepines in stressed mice**
23. **2012-13/Mr. Mohit Kumar/Formulation and characterization of gastroretentive floating tablets of famotidine hydrochloride using Box-Behnken design**
24. **2012-13/Mr. Arun Kumar Chopra/Development of chitosan nanoparticles for ocular delivery of fluconazole using Box-Behnken design**
25. **2012-13/Ms. Preeti Garg/Box-Behnken designed nanoparticle-in-microparticle (NiMS) system for formulating acetazolamide orally disintegrating tablets**
26. **2012-13/Ms. Neelam Dalal/Recent challenges and strategies on deficiency response to fasten approval**
27. **2012-13/Mr. Parveen Kumar/Regulatory pharmaceutical environment of emerging market: Unique challenges ahead**
28. **2013-14/Mr. Parijat Pandey/Spray Dried Nanoparticles-in-Microparticles System (NiMS) for Formulating Acetazolamide in Orally Disintegrating Tablets Applying Central Composite Design (CCD).**
29. **2013-14/Mr. Mandeep Dahiya/Development and Characterization of Imatinib loaded Magnetic Nanoparticles using Pharmaceutical Experimental Design**
30. **2013-14/Ms. Rajni/Taste masking of bitter drugs using ion exchange resin**
31. **2013-14/Ms. Manisha Saini/Recent challenges and opportunities in USA's pharmaceutical regulatory landscape**
32. **2013-14/Ms. Monika Punia/Regulatory consideration of quality by design and its implementation using shop floor case study**
33. **2014-15/Ms. Dimple Chaudhary/Regulatory road map of medical devices in emerging markets**
34. **2014-15/Ms. Komal Dhull/Regulatory intervention of outrageous cosmetics**
35. **2014-15/Ms. Prerna Kaushik/Horizon scanning-drug pricing regulations of prescription drugs**
36. **2014-15/Ms. Priya Dhiman/Development and Characterization of atorvastatin loaded chitosan nanoparticles using central composite design**
37. **2014-15/Mr. Vipin Malik/Formulation and characterization of gastroretentive floating tablets of allopurinol using central composite design**
38. **2015-16/Ms. Reena/Formulation and evaluation of microspheres based oro-dispersible Roxithromycin tablets using central composite design**
39. **2015-16/Ms. Beena Kumari/Formulation and characterization of gastro retentive floating tablet of atorvastatin calcium using central composite design**
40. **2015-16/Mr. Vipin Malik/Formulation and characterization of gastro retentive floating tablet of allopurinol using central composite design**
41. **2015-16/Mr. Jaidev/Nutraceuticals regulatory insights: Current scenario and future scope**
42. **2016-17/Ms. Vriti /Regulatory aspects and policies related to development, evaluation and control of Nanopharmaceuticals**
43. **2016-17/Ms. Ritika babbar/A cognitive of PLCM in pharma emerging markets regulatory environment**
44. **2016-17/Ms. Nidhi Saiwal/Formulation and characterization of simvastatin loaded polymeric nanoparticles using sonication technique**
45. **2016-17/Mr. Gaurav Sharma/Dissolution enhancement of glibenclamide using solid dispersion technique by applying central composite design**
46. **2017-18/Ms. Reena/Formulation and characterization of glimepiride nanoparticles for dissolution enhancement**
47. **2017-18/Ms. Anshul/Optimization of fenofibrate loaded nanocrystals for dissolution**



- enhancement using central composite design
48. **2017-18/Mr. Aditya Kumar/The pre-mortem: Regulation for Biosimilars in USA, EU, Japan and India**
  49. **2017-18/Mr. Raseshwar Banerjee/Bridging the Hive: Parenteral and ophthalmic regulatory filing**
  50. **2018-19/Ms. Pooja Mehra/Innovator and generic drugs: Uniqueness of Chinese and Japanese pharma regulations**
  51. **2018-19/Ms. Pooja Rathee/Mainstreaming 505(B) (2) in pharma environment**
  52. **2018-19/Ms. Nisha/Formulation and Characterization of Fenofibrate Loaded Nanoemulsion using High Shear Homogenisation Technique for Improvement of Solubility**
  53. **2018-19/Mr. Manish/Preparation, Optimization and Evaluation of Glimepiride Loaded Nanoemulsion using High Shear Homogenization Technique for Improvement of Solubility using Box-Behnken Design**
  54. **2019-20/Mr. Anurag Kumar/Formulation and Characterization of Rufinamide Nanosuspension for Improvement of Solubility**
  55. **2019-20/Ms. Doli Dagar/Formulation Of Letrozole Loaded Nanoemulsion**
  56. **2019-20/Mr. Sumit Sanduria/Regulatory Challenges of Developing a Combination Product in a Globalized World**
  57. **2019-20/Ms. Aman Kumari/Inspections, Warning Letters And Compliances: Global Regulatory Scenario**
  58. **2020-21/Mr. Sushil Kashyap/Formulation, Optimization And Characterization Of Levetiracetam Loaded Nanosuspension**
  59. **2020-21/Mr. Vikram/Regulatory Aspects of Herbal Medicines in Global Scenario**
  60. **2020-21/Mr. Nihal Singh/Study On Recent Regulatory Waves On Pharmaceuticals Across The Globe**
  61. **2020-21/Ms. Manisha Dalal/Formulation, Optimization And Characterization Of Oxcarbazepine Loaded Nanoemulsion**
  62. **2021-22/Litasha/Formulation and Characterization of Oxcarbazepine Nanosuspension using High Pressure Homogenization Technique**
  63. **2021-22/Lokesh/Formulation, optimization and characterization of Nystatin-loaded Nanoemulsion**
  64. **2021-22/Nihsa Khatri/Comparative Study On Regulatory Considerations Of Covid-19 Vaccines And Medicines**
  65. **2021-22/Harsh/To Study and Analyze the Regulation on Falsified and Counterfeit Pharmaceutical Products: A Global Scenario**
  66. **2022-23/**

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## Professional Experience

**Director, Centre for IPR Studies - 03/06/2021 /Director, Intellectual Property Right Cell, MDU, Rohtak - 07/05/2018 to 02/06/2021.**

**Director, Professional Consultancy Cell, MDU, Rohtak - 05/12/2018**

**Convenor, Institution Innovation Council, MDU, Rohtak - 07/01/2019 to 30/09/2020.**

- ❖ Member/Peer Team- NAAC/ August 2019 to till date
- ❖ Member /Academic council, M. D. University, Rohtak/June 8th, 2008 to June 7th, 2010 and

December 05, 2014 to till date.

- ❖ Chairman, Board of Studies, M. D. University, Rohtak/November 11, 2021 to till date.
- ❖ Chairman, Departmental Research Committee., M. D. University, Rohtak/November 11, 2021 to till date.
- ❖ Member/Board of studies, M. D. University, Rohtak/ January 05th, 2009 to July 12th, 2010 and February 16th. 2015 to November 10, 2021..
- ❖ Member/University Court, M. D. University, Rohtak/July 23rd, 2009 to July 22, 2012.
- ❖ Member Secretary/Human Ethics Committee, M. D. University, Rohtak/ December, 2012 to Jan 2019.
- ❖ Member/ Human Ethics Committee, M. D. University, Rohtak/ January , 2019 to till date..
- ❖ Coordinator/Career Counseling and Placement Cell/M. D. University, Rohtak/ October 08<sup>th</sup>, 2013 to June, 2017.
- ❖ Secretary/APTI Haryana State Branch/August 2013- July 2016.
- ❖ Member/Faculty of Pharmaceutical Sciences, M. D. University, Rohtak/May 21st, 2007 to May 12th, 2008 and November 14th, 2014 to November 13th, 2015, July 11, 2016 to till date.
- ❖ Member/Dissection Monitoring Committee, Deptt of Zoology, M. D. University, Rohtak/October, 2014 onwards.
- ❖ President/APTI Haryana State Branch/August 2016 to till date.
- ❖ Convener/Flying Squad, Ch. Bansi Lal University, Bhiwani/May 22nd, 2015.
- ❖ Outside Expert/Faculty of Pharmacy, Baba Mastnath University, Rohtak/ October, 2014.
- ❖ Member/Department Research Committee/ November 29th, 2007 to November 28th, 2009 and July 12th, 2010 to November 11, 2021..
- ❖ Outside expert for Academic and Administrative Audit at Indira Gandhi University, Meerpur, Rewari
- ❖ Outside Expert/Faculty of Pharmacy, Maharaja Ranjit Singh Punjab Technical University, Bhatinda/October 01st, 2017 to September 30th, 2019.
- ❖ Outside Expert/Faculty of Pharmacy, Adesh University, Bhatinda/July 2018 to till date.
- ❖ Outside Expert/Board of Studies, Deptt of Pharmacy, Adesh University, Bhatinda/July 2018 to till date.
- ❖ Outside Expert/Board of Studies, School of Pharmacy, Starex University, Gurugram/October 2017 to till date.
- ❖ Outside Expert/Board of Studies, Deptt of Pharmaceutical Sciences, Indira Gandhi University, Rewari/October 2016 to till date.
- ❖ Member/Committee for Radha Krishnan Fund, M. D. University , Rohtak/March 2019 to till date.
- ❖ Member/Quality Advisory Council, M. D. University, Rohtak/June 2020 to till date.
- ❖ Outside Expert/Board of Studies, University Institute of Pharmaceutical Sciences, Chandigarh University, Mohali, Punjab/February 2020 to till date.
- ❖ Outside Expert/Board of Studies, Himachal Pradesh Technical University, Hamirpur (HP)/ July 2021 to till date.
- ❖ External Member/Syllabus Revision committee for Department of Pharmaceutics at National Institute of Pharmaceutical Education and Research, Guwahati, Assam/ September 2021.
- ❖ Outside Expert/RDC, School of Pharmaceutical Sciences, Jaipur National University, Jaipur/October 2021 to till date.
- ❖ Outside Expert/Research Degree Committee (RDC), Deptt of Pharmacy, Kumaun University, Nainital/Utttrakhand/ July 2021 to till date.
- ❖ Outside Expert/Board of Studies, Department of Pharmaceutical Sciences, HNB Garhwal University, (A Central University), Srinagar-Garhwal/April 2022 to till date.
- ❖ Outside Expert/Board of Studies, Deptt of Pharmacy, Kumaun University, Nainital/Utttrakhand/ April 2022 to till date.
- ❖ Outside Expert/Board of Studies, School of Pharmaceutical Sciences, Jaipur National University, Jaipur/June 2022 to till date.
- ❖ Outside Expert/Board of Studies in Pharmacy (Faculty of Pharmacy), T M College of Pharmacy, Teerthanker Mahaveer University, Moradabad, Uttar Pradesh/June 2023 to till date.
- ❖ Member/Human Ethics Committee, Chandigarh University, Chandigarh University, Mohali,

- Punjab/ September 2023 to till date.
- ❖ Outside expert/Adhoc Committee, Department of Pharmaceutical Sciences/Chaudhary Devi Lal University, Sirsa/June 2023 to till date
- ❖ Outside Expert/Board of Studies, Department of Pharmaceutical Education and Research, Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur, Sonapat/June 2022 to till date.
- ❖ Outside Expert/DRC, Department of Pharmaceutical Sciences/Chaudhary Bansi Lal University, Bhiwani/October 2023 to till date

### Other Experiences

- ❖ Dy. Supdt/Centre Supdt (Examination) for B. Pharm. /M. Pharm. Examinations at Deptt. of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak.
- ❖ Convenor, Admission committee for B. Pharm. Admissions and M. Pharm. Admissions and PhD admissions
- ❖ Member, Admission committee for Ph.D., M. Pharm. and B. Pharm. Admissions
- ❖ Student Advisor at Deptt. of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak.
- ❖ Member of Seat Allotment Committee in State Counseling for admission to B. Pharmacy and LEET (Pharmacy) at Maharshi Dayanand University, Rohtak.
- ❖ Member of Hostel Allotment Committee at Deptt. of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak.
- ❖ Member, AICTE expert visit to Technical Institutes
- ❖ Member, PCI expert team for Pharmacy Institutions.
- ❖ Member, University Court, M. D. University, Rohtak.
- ❖ Member, Anti-ragging committee, Deptt. of Pharmaceutical Sciences, M. D. University, Rohtak.
- ❖ Member, Inspection Committee of Affiliated Colleges, M. D. University, Rohtak.
- ❖ Observer in CTET examination, AIEEE and AIPMT and UGC-NET conducted by CBSE, New Delhi.
- ❖ Observer (OSD) in National Institute of Open Schooling examination at Rohtak Centres
- ❖ Outside expert in the Selection Committees for recruitment of Pharmacy faculty at JCD college of Pharmacy, Sirsa; Royal College of Pharmacy, Hissar; Ram Gopal College of Pharmacy, Gurgaon; Lingaya's University, Faridabad; Ch. Bansi Lal University, Bhiwnai; BPS Mahila Vishwavidyalaya, Khanpur Kalan; Starex University, Gurugram; Raffles University, Neemrana; Gurugram University, Gurugram; Sat Priya Institute of Pharmacy, Rohtak; Indira Gandhi University, Rewari, KR Manglam University, Sohna, G J University, Hissar

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## Membership of Professional Bodies

- ❖ Life member of Indian Pharmaceutical Association (PUN/LM/0084).
- ❖ Life Member of the Association of Pharmaceutical Teachers of India (HA/LM-0197).
- ❖ Life member of Indian Pharmacy Graduate Association (LM-5921)
- ❖ Executive Council Member of InPharm Association ([www.inpharm.org](http://www.inpharm.org))
- ❖ Life Member, Indian Pharmacological Society (LH-106)
- ❖ Life member, Indian Science Congress Association (L36945)

( Harish Dureja)