

CURRICULUM – VITAE

Personal Particulars

Name **PROF. (DR.) KAMLA PATHAK**
Father's name Shri J. N. Srivastava
Date of Birth 5.07.1963
Marital Status Married
Nationality Indian
Place of Birth Mathura
Designation Professor & Head



Official Address Department of Pharmaceutics
Rajiv Academy for Pharmacy,
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Academic Qualifications

1. High School from CBSE, New Delhi (1978)
2. 10+2 (1980) from CBSE, New Delhi (1980)
3. B. Pharm. from Panjab University, Chandigarh (1983)
4. M. Pharm. (Pharmaceutics) from Panjab University, Chandigarh (1985)
5. Ph. D. from Panjab University, Chandigarh (1991)

Teaching Experience (Under graduate)

Address of Workplace	Designation	Period (Duration)
Department of Pharm. Sciences, Panjab University, Chandigarh 160014	Lecturer	23 Aug1988- 28 Nov 1998 2 Nov 1989- 25 May 1990 (9 months)
B. N. College of Pharmacy, Udaipur, Rajasthan	Lecturer	March 1991-17 Aug 1995 (4 years, 5 months)
K. N. Modi Institute of Pharmaceutical Education and Research, Modinagar,(U.P.).	Reader	26 Aug 1995- 30 Apr1999 (3 years, 9 months)
Rajiv Academy for Pharmacy, Mathura, Uttar Pradesh.	Reader Professor	1 June1999- 31 Aug 2002 (3 years, 2 months) 1 Sep 2002- till date (11years) <i>as on 31st August 2013</i>

Teaching Experience (Post graduate / Research Guide)

Eleven years in Pharmaceutics.

Supervised 110+ M. Pharm. Projects and 2 Ph.D. projects

Ongoing projects- 5 Ph.D. and 6 M. Pharm. Projects

Fellowships Awarded

JRF, University Grants Commission, New Delhi, August 1983 to July1985

Junior Research Fellowship from CSIR, New Delhi, Oct.1985- Dec1985

Senior Research Fellowship, University Grants Commission, New Delhi, Jan1986- Nov.1988

Research Associate, University Grants Commission, New Delhi Nov.1988 – March1991

Professional Affiliation(s): Life Members of:

American Nano Society; **115183**

The Association of Pharmaceutical Teachers of India; **UP/LM-015**

Indian Pharmaceutical Association; **UP/ALL/LM/0039**

Indian Pharmacy Graduate Association; **LM 627**

Indian Hospital Pharmacy Association; **50632**

Society of Pharmacovigilance of India

The Indian Society for Technical Education; **LM 50406**

Registered Pharmacist, Uttar Pradesh Pharmacy Council

Panjab University Alumni Association

Association of Community Pharmacists of India; **UP/LM/006**

Publications

M. Pharm. thesis - *Factors effecting autooxidation of 6-Mercaptopurine*

Ph. D. Thesis - *Studies on Euphorbia prostrata Ait.*

More than 180 publications in journals of international and national repute

Professional Achievements

Convener, Research Degree Committee, C. C. S. University, Meerut (1997-1998)

Member, Board of Studies, Pharmacy and Pharmaceutical Sciences, C.S.J.M.U., Kanpur

Member, Board of Studies, U. P. Technical University, Lucknow (2003-2006)

Member of Apex Steering Committee, International Seminar on Emerging Trends in Pharmaceutical Sciences conducted by U. P. Technical University, Lucknow in 2006.

Member Selection Committee, M.D.U., Rohtak

Vice President, APTI, U.P. State Branch, (2007- 2008)

External Examiner for Hamdard University, New Delhi; U.P. Technical University, Lucknow;

Banaras Hindu University, Varanasi; Dr. B.R. Ambedkar University, Agra; M.J.P. Rohelkhand

University, Bareilly; M.D. University, Rohtak; Allahabad Agricultural University, Allahabad;

Punjabi University Patiala; DIPSAR University, New Delhi; Guru Jhambeshwar University, Hisar,

Member, National Advisory Board, SOPI (Indian Chapter)

Reviewer, *AAPS Pharm. Sci. Tech.; Drug Development and Industrial Pharmacy; International Journal of Pharmaceutics; Journal of Nanoscience and Nanotechnology; Scientia Pharmaceutica; PDA Journal of Pharmaceutical Science and Technology, Journal of Microencapsulation, Journal of Drug Targeting, Expert Opinion on Drug Delivery, Molecular Pharmaceutics; European Journal of pharmaceutics and Biopharmaceutics; Indian Journal of Pharmaceutical Education and Research; African J Pharm Pharmacol, Archives of Pharmacal Research; Eur J Pharm Biopharm*

Reviewer, Scientific projects, Knowledge Foundation, Sweden

Member, Global Editorial Reviewer *Board for Archives of Pharmacal Research*

Member, Editorial Board, *Int J Drug Del Tech*; ISSN 0975-4415

Member, Advisory Board, *Int J Pharm Sci Drug Res; IPGA Today*

Member, Editorial Board, *Int J Pharm Investigation; J Pharm Allied Sci Res; Insight Pharmaceutical Sciences, Pharmaceutical Technology*

Editor, *Bio Med International*; <http://mts.hindawi.com/editor/1735996246157490/>

AWARDS/PRIZES

1. IPGA Best Local Branch Award 2015, 30th Annual Conference of IPGA , 31st October 2015.
2. Motan Devi Dandiya prize for best research publications in Pharmacy, Professor Prem Chand Dandiya Endowment Trust 2012 and 2013 Biennial Best Publication Awards.
3. Dr. R.L. Nicore award 2012, for Best Research paper in Pharmaceutics published in IJPER
Title: *Evaluation of the kinetics and mechanism of drug release from econazole nitrate nanosponge loaded carbapol hydrogel*, Ind J Pharm Ed Res, 45 (1) 25-31. At 17th APTI Convention, Manipal 12th-15th Oct 2012.
4. Eminent Teacher Award, 2012, First Annual conference of Society of Pharmaceutical Education and Research 23rd June 2012.
5. First Prize: Sonam Singh, Pragya Rastogi, Kamla Pathak, Prefentially coated buccoadhesive tablets for localized delivery of an antifungal agent for the treatment of Candida albicans infection in oral cavity. 2nd National Women Conference – 2015, 'Women in Science – Promoting Excellence and Innovation for Future Development' March 25-27, 2015, Jiwaji University, Gwalior.
6. Third Prize: Rahul Kumar Singh, Nida Akhtar, Kamla Pathak, *Nanosized niosomes for enhanced ocular delivery of norfloxacin*, Nanoformulations and Translational Research: Small getting Bigger, Department of Pharmaceutical Sciences, BBAU, Lucknow, India, Poster Code: PN-4
7. First Prize; Munmun Jaiswal*, Vaishali Agrawal, Manish Kumar, Kamla Pathak, *Polymeric Micellar Ocular Delivery System of Miconazole Nitrate for the Management of Fungal Endophthalmitis*, 3-4 March 2014, SPIRIT-14, Dept. of Pharmaceutics, IIT, BHU, Varanasi (2014). Poster Code: PU-P3
8. Second prize; Smita Raghuvanshi & Kamla Pathak, *Sustained Release Low Density Gastroretentive Bioadhesive Microsponges of Cinnarazine: Optimization through Experimental Design*, 3-4 March 2014, SPIRIT-14, Dept. of Pharmaceutics, IIT, BHU, Varanasi (2014). Poster Code: PU-P3.
9. Second prize; Smita Raghuvanshi & Kamla Pathak, *Optimization of Floating Microsponges of Cinnarazine for Sustained Gastric Delivery*, CRATDDS-2014, AICTE Sponsored National Seminar on Current and Recent Advancement in Targeted Drug Delivery System, 9th - 10th Feb. 2014, Kota College of Pharmacy, Kota (Raj.) A-073
10. Second prize ; Akhilesh K. Tewari & Kamla Pathak , *"Preformulation studies of lipidic prodrug of riboflavin for improved corneal epithelial penetration in UVA-CXL procedure,"* Spirit'13- it's inside you organized by pharmaceutical society, IIT (BHU), Varanasi Swatantrata Bhawan, IIT (BHU), Varanasi, 16-17th March 2013, Poster code PU-P12
11. Second prize; Pallavi Rajput, Deshvir singh & Kamla Pathak , *"Fanicular cylindrical system :A novel gastroretentive dosage form providing simultaneous control and immediate delivery for*

treating H.pylori Ulcer , An international conference on targeting of bioactive concepts and application: Advanced Group of Pharmacy colleges Kanpur, 9th Feb 2013, Poster code-56

12. Best Poster; (Pharmaceutical Technology); Mayank Shah and Kamla Pathak *Statistical optimization of solid lipid nanoparticles of simvastatin by using factorial design* , 14th APTI Convention, 3rd - 4th Oct, 2009, Jodhpur, Rajasthan.

13. First prize (Pharmaceutical Technology) Mayank Shah and Kamla Pathak, *Statistical optimization of solid lipid nanoparticles of simvastatin by using factorial design*, 14th APTI Convention, 3rd - 4th Oct, 2009, Jodhpur, Rajasthan;

14. Second prize (Pharmaceutical Technology) Pramod Kumar, Vijay Sharma and Kamla Pathak, *Preparation and evaluation of taste masked carbonated fast disintegrating tablets of lamotrigine*, PH-86. 14th APTI Convention, 3rd - 4th Oct, 2009, Jodhpur, (Raj)

15. Second prize, (Pharmaceutical Technology); *Preparation and evaluation of buccoadhesive gels of glibenclamide*, Manish Srivastava, Anil K Philip and Kamla Pathak, PH-22. 13th APTI National Convention, Oct 3-4, 2008, Bilaspur.

DISTINCT ACHIEVEMENTS

- Technology Assignment Agreement between Vastrata, Limited, 11-13 Front Street, Corbridge, Northumberland, NE45 5AP, U.K; Kamla Pathak, Ambikanandan Mishra and Mukesh Kumar and Synergia Biosciences Pvt. Ltd. Bangalore, India, for the Formulation development of nose to brain delivery of an antipsychotic drug
- Scientific Advisor to Synergia Biosciences Pvt. Ltd. Bangalore, India
- Member, Advisory Board, Oniosome Research Centre, Mohali, Panjab
- Email interview: DESTACAN LA UTILIDAD DE LAS NANOEMULSIONES PARA LA ADMINISTRACION INTRANASAL DE RISPERIDONA, available at the following link: <http://www.siicsalud.com/dato/ensiic.php/111310>
- External Examiner, PG thesis (Pharmacy), University of Cape Town, Cape Town, South Africa
- Reviewer, Scientific projects, Knowledge Foundation, Swedem
- Reviewer, Scientific projects, Israel.

Professional stats

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PATENTS

1. SINGLE STEP SYNTHESIS OF RIBOFLAVIN LIPID CONJUGATE FROM RIBOFLAVIN FOR CORNEAL ACCUMULATION OF RIBOFLAVIN IN CORNEAL COLLAGEN CROSSLINKING, Patent Facilitating Centre, TIFAC CORE, New Delhi, Application No: T.I (33)/TIFA/2013. Applicant: Rajiv Academy for Pharmacy, Mathura; Inventors: Akhilesh Tiwari, Dr. Kamla Pathak
2. OSMOTIC CONTROLLED RELEASE ORAL FORMULATION OF LYCOPENE WITH ENHANCED SOLUBILITY, The Patent Office, New Delhi vide application number 2792/DEL/2008, dated 11/12/2008 time 12.02.52, CBR no. 969. Applicant & Inventors: Nitin Jain, Anil Philip, Kamla Pathak
3. NOVEL PROCESS FOR EXTRACTION OF SCOPOLETIN, The Patent Office, New Delhi, vide application number 422/DEL/2008, dated 05/02/2009 time 11.28.17, CBR no. 1764. Applicant & Inventors: Anuj Malik, Vikram Singh and Kamla Pathak

Book Chapter

Pathak K. "Ethosomes for optimized skin delivery", Chapter 6 in Vol VI- Drug Nano-carriers, 175-202, Recent Developments in Biotechnology" published by Studium Press LLC, USA.

HONOURS

Poster Evaluator, IPC, 19-22 Dec2015, JSS College of Pharmacy, Mysuru, Karnataka.

Chairperson, Scientific session, 2nd Annual National Conference of Association of Pharmaceutical Teachers of India, Haryana State Branch, 25th October 2015, MDU, Rohtak, Haryana.

Chairperson, Poster Session, RACS-7, 10-11 March 2015, Amity University, Noida,

Chairperson, Technical Session II, Nanoformulations and Translational Research: Small getting Bigger, Department of Pharmaceutical Sciences, BBAU, Lucknow, India. 2-3 Feb 2014

Reviewer, Poster Session, 29th Annual Conference of IPGA in collaboration with Lovely Professional University, G. T. Road, Phagwara, Punjab, 22-23 Nov 2014.

Chairperson, Scientific Session, 1st Annual Conference of APTI, Haryana State Branch, 22-23 August, 2014, Institute of Pharmaceutical Sciences, Kurushetra university, Kurushetra. Haryana

Chairperson, Poster Session, Pharmaceutical Technology, 14th APTI Convention, 3rd-4th Oct, 2009, Jodhpur, Rajasthan

Co-chairperson, Poster Session, Pharmaceutical Technology, 60th IPC, 12-14th Dec 2008, New Delhi

Chairperson, Poster Session, Pharmaceutical Technology, 59th, IPC, Varanasi, Dec.2007

LECTURES DELIVERED

1. **Gastroretentive Drug Delivery:** National Seminar on Emerging Frontiers & Challenges in Pharmaceutical Sciences, 4 April 2015. B. S. Anangpuria Institute of Pharmacy, Faridabad.

2. **Gastroretention: Utilizing shape and bioadhesive factors for Novel Drug Delivery System,** 2nd National Women Conference – 2015, 'Women in Science – Promoting Excellence and Innovation for Future Development' March 25-27, 2015, Jiwaji University, Gwalior.

3. **Nanophytomedicine: Nanotechnology in Herbal Drugs,** National Seminar on Ethnobotany: Concept and Prospective, March 21-22, BSA College, Mathura.

4. **Bifunctional Dosage form for Gastroretention**, QIP 23-27 Feb 2014, DIPSAR, New Delhi.
5. **Therapeutics and Diet care for HIV patients** International Conference on Community Participation In HIV/AIDS Prevention, Treatment and Care, 02-04 March, 2014
R.C.A. Girls P.G. College, Vrindaban Gate, Mathura (Key Speaker)
6. **Novel drug delivery system for gastroretention** CRATDDS – 2014, 1st AICTE sponsored national seminar on "current and recent advancement in targeted drug delivery system" 9th – 10th February 2014, Kota
7. **In vitro Dissolution: Preformulation tool for assessing Drug Delivery**, One Day National Seminar on "Preformulation: Its Impact on Drug Delivery" ITM University, Gwalior, 16 Jan 2014
8. **Health Care via Age Appropriate Formulations: Pediatric Perspective**, One day National conference, Dec 1, 2013, SVGP, Jhansi.
9. **Ethosomes: Efficient nanovesicular approach for optimized topical delivery**, Nanomedicine 2013, 30-31 May 2013, Radisson Blu Plaza, New Delhi
10. **Phospholipid Ethanol vesicles for optimized topical delivery**, National Conference on New Frontiers for Women in Science and Technology, 20-21 March 2013, Jiwaji University, Gwalior, Madhya Pradesh
11. **Pediatric Formulations: Regulatory and sensory perspectives**, AICTE sponsored 23 Feb 2013, Innovative College of Pharmacy, G Noida.
12. **Ethics in Education** 20 Feb 2013, Rajiv International School, NH#2, Mathura.
13. **Effect of Lipids on formulation development of nanoparticles**, TIFAC- CORE, MS University, Vadodara. 29th Feb 2012.
14. **Product Development issues of Lipid nanocarriers**, AICTE sponsored XVI quality improvement programme on Challenges in Pharmaceutical Sciences 21st Nov to 2nd December, 2011 DIPSAR, New Delhi.
15. **Lipid Nanoparticles: Modern Tools for drugs and Cosmetics**, National Conference on Innovations in Pharmaceutical sciences, 20th-22nd August, 2010, Department of Pharmaceutical Sciences, SGIT, Ghaziabad.
16. **Components of Rational Drug Use**, AICTE sponsored Staff Development programme 1st Sep -13th September 2009, Institute of Professional Studies, Gwalior
17. **Rational Drug Use**, AICTE sponsored Short term training programme 16th March-20th March 2009, Advanced Institute of Pharmacy
18. , Palwal, Haryana

LIST OF PUBLICATIONS

RESEARCH ARTICLES IN REFREED JOURNALS

1. Preeti Upadhyay, Manish Kumar, Kamla Pathak (2016) *Norfloxacin loaded pH triggered nanoparticulate in situ gel for extraocular bacterial infections: Optimization, ocular irritancy and corneal toxicity* **Iran J Pharm Res (In Press) IF 0.540**
2. Kamla Pathak, Vijay Sharma, Nida Akhtar, Pragya Rastogi, (2016) *Localization of fluconazole in oral cavity by preferential coating of buccoadhesive tablet for treatment of oral thrush*, **Int J Pharm Invest (In Press)**.
3. Gaurav Gangwar, Anil Kumar, Kamla Pathak (2015) *Utilizing the potential of guar gum for development of "Tabs in Cap" system of losartan potassium for chronotherapeutics* **Int J Biol Macromolecules** 72, 812-818. DOI:10.1016/j.ijbiomac.2014.09.027, **IF 3.096**.
4. Munmun Jaiswal, Manish Kumar, Kamla Pathak (2015) *Zero order delivery of Itraconazole via polymeric micelles incorporated in situ ocular gel for the management of fungal keratitis*, **J Colloids and Surfaces B**, 130, 23- 30. **IF 4.287**
5. Monika Joshi, Vijay Sharma, Kamla Pathak (2015) *Matrix based system of isotretinoin as nail lacquer to enhance transungal delivery across human nail plate* **Int J Pharm**, 478 (1), 268-277. DOI: 10.1016/j.ijpharm.2014.11.050 **IF 3.785**
6. Amit Kumar Singh and Kamla Pathak (2015) *Colon specific CODES™ based Piroxicam tablet: Statistical optimization, in vivo roentgenography and stability assessment*, **Pharm Dev Tech**. 20(2), 237-245. DOI:10.3109/10837450.2013.860549; **IF 1.335**
7. Kamla Pathak, Vijay Sharma and Meenu Sharma (2015) *Optimization, in vitro cytotoxicity and penetration capability of paclitaxel deformable vesicles for dermal chemotherapy in Kaposi Sarcoma* **Artif Cells, Nanomed Biotechnol** DOI:10.3109/21691401.2015.1080169, **IF 1.105 (Published online)**
8. Ravi Shankar and Kamla Pathak (2015) *Optimization studies on development and evaluation of papain based in-situ gelling system for chemo-mechanical caries removal*, **Pharm Dev Tech** 20:7, 801-811. DOI: 10.3109/10837450.2014.920361, **IF 1.335**
9. Akhtar N, Arkvanshi S, Bhattacharya SS, Verma A, Pathak K. (2015) *Preparation and evaluation of a buflomedil hydrochloride niosomal patch for transdermal delivery*. **J Liposome Res**. 25(3) 191- 201. DOI: 10.3109/08982104.2014.974058. **IF 1.882**
10. Sunita Dahiya, Atul Kaushik, Kamla Pathak (2015) *Improved Pharmacokinetics of Aceclofenac Immediate Release Tablets Incorporating its Inclusion Complex with Hydroxypropyl-β-Cyclodextrin* **Scientia Pharmaceutica** 83(3), 501–510. doi:10.3797/scipharm.1409-07. **IF 0.83**

11. Mohammad Ashif Khan, Nida Akhtar, Vijay Sharma, Kamla Pathak (2015) *Product development studies on sonocrystallized curcumin for treatment of gastric cancer*, **Pharmaceutics**, 7, 42-63, DOI:10.3390/pharmaceutics7020043.
12. Nida Akhtar, Kamla Pathak (2015) *Polymeric micelles for ocular delivery: Progress and issues*, **Pharm Nanotech**, 3 (3), DOI: 10.2174/2211738504666151127192330.
13. Priya Shahi, Neeraj Kumari, Kamla Pathak (2015) *MATICS: A novel chronotherapeutic system of ketorolac tromethamine for site and time specific delivery* **Int J Pharm Invest**, Jul-Sep; 5(3):161-70. DOI: 10.4103/2230-973X.160854.
14. Anju Gauniya, Rupa Mazumder, Kamla Pathak (2015) *Formulation, optimization and characterization of ziprasidone nanocrystals prepared by media milling technique* **Int J Pharm Pharm Sc**, 7(8),146-150.
15. Abdesh Singh, Manish Kumar, Kamla Pathak (2015) *β - Galactosidase mediated release characteristics of lornoxicam loaded guar gum microspheres: evaluation and product development* **Pharm Biomed Res**, 1(4) 12-28.
16. Priyanka Arya and Kamla Pathak (2014) *Assessing the viability of microsponges as gastro retentive drug delivery system of curcumin: Optimization and pharmacokinetics* **Int J Pharm.** 460, 1– 12. DOI:10.1016/j.ijpharm.2013.10.045; **IF 3.99**
17. Pallavi Rajput, Deshvir Singh and Kamla Pathak (2014) *Bifunctional capsular dosage form: Novel Funicular Cylindrical Gastroretentive system of clarithromycin and immediate release granules of Ranitidine HCl for simultaneous delivery* **Int J Pharm.** 461, 310– 321. DOI: 10.1016/j.ijpharm.2013.11.053; **IF 3.99**.
18. Akhilesh Tiwari, Neeraj Kumar Gangwar, Kamla Pathak (2014) *Fast dissolving ocular films of riboflavin acetate conjugate for treatment of keratoconus in UVA-CXL procedure: Ex-vivo permeation, Hemolytic toxicity and Apoptosis detection.* **Expert Opin. Drug Deliv**, 11(3), 325-343. DOI:10.1517/17425247.2014.873028 **IF 4.869**
19. Jyotsana Singh, Gulshan Chhabra and Kamla Pathak (2014) *Development of Acetazolamide loaded pH triggered polymeric nanoparticulate in-situ gel for sustained ocular delivery: In-vitro, ex-vivo evaluation and pharmacodynamic study* **Drug Dev Ind Pharm**, 40(9) 1223- 1232. DOI:10.3109/03639045.2013.814061, **IF 1.539**
20. Vaishali Agrawal, Manish Kumar, Kamla Pathak (2014) *Defining the properties of pH - sensitive polymeric micellar ocular delivery system of miconazole nitrate for the management of fungal endophthalmitis*, **Pharm Nanotechnol**, **2,157-166**. DOI: 10.2174/2211738502666141112220729
21. Kushal Pal Singh, Gulshan Chhabra, Vijay Sharma and Kamla Pathak (2014) *Development of thermoreversible periodontal sol of ciprofloxacin hydrochloride and serratiopeptidase: in-vitro and ex-vivo evaluation.* **Int J Pharm Invest** 4 (1) 5-14. DOI: 10.4103/2230-973X.127734
22. Neeraj Singh, Manish Kumar and Kamla Pathak (2014) *Optimization of diltiazem hydrochloride loaded mucoadhesive floating microspheres as calcium carbonate as floatation aid.* **Ind J Pharm Ed Res**, 48(3) 60-74. DOI: 10.5530/ijper.48.3.8, **IF 0.22**.

23. Mohd Yusuf, Vijay Sharma, Kamla Pathak (2014) *Nanovesicles for Transdermal Delivery of Felodipine: Development, Characterization and Pharmacokinetics* **Int J Pharm Invest.**, 4(3) 119-130. DOI: 10.4103/2230-973X.138342.
24. Prashant Kumar, Akhilesh Tiwari, Gulshan Chhabra, Kamla Pathak (2014) *Use of Central composite design for Statistical Optimization Promethazine Teoclate Loaded Solid Lipid Nanoparticles*, **Asian J Pharm.**, 8(4),279-286. DOI: 10.4103/0973-8398.143945; **IF 0.46**
25. Pravin Gupta, Jeet Singh, Kamla Pathak (2014) *Preparation and evaluation of venlafaxine hydrochloride microspheres by ionotropic gelation method*, **J Pharm Res.**, 8(1),53-58.
26. Deshvir Singh and Kamla Pathak (2013) *Hydrogen bond replacement – unearthing a novel molecular mechanism of surface solid dispersion for enhanced solubility of a drug for veterinary use*, **Int J Pharm** .441(1-2) 99-110. DOI: 0.1016/j.ijpharm.2012.12.008,**IF 3.99.**
27. Reena MP Singh, Anil Kumar and Kamla Pathak (2013) *Thermally triggered mucoadhesive in situ gel of loratadine: β -cyclodextrin complex for nasal delivery* **AAPS Pharm Sci Tech** 14 (1), 412-424. DOI: 10.1208/s12249-013-9921-9. **IF 1.776**
28. Arun Arya, Vijay Sharma and Kamla Pathak (2013) *Pharmacotechnical evaluation and dynamic vapor sorption studies of fast dissolving intraoral films of Loratadine* **Pharm Dev Tech**, 18(6) 1329-1338 (IF 1.107). DOI: 10.3109/10837450.2012.685659 **IF 1.333**
29. Mukesh Pathak, Gulshan Chhabra and Kamla Pathak (2013) *Design and development of a novel pH triggered nanoemulsified in situ ophthalmic gel of fluconazole: ex vivo transcorneal study, corneal toxicity and irritation testing*. **Drug Dev Ind Pharm.** 39 (5) 780-790. DOI:10.3109/03639045.2012.707203. **IF 2.01**
30. Lav Keshri and Kamla Pathak (2013) *Development of thermodynamically stable nanostructured lipid carrier system using central composite design for zero order permeation of Econazole nitrate through epidermis* **Pharm Dev Tech** 18(3): 634–644. DOI: 10.3109/10837450.2012.659256. **IF 1.333**
31. Brijesh Kumar, Vijay Sharma and Kamla Pathak (2013) *Effect of melt sonocrystallization on pharmacotechnical properties of paracetamol, indomethacin and mefenamic acid characterized by dynamic laser scattering and its impact on solubility* **Drug Dev Ind Pharm**, 39 (5) 687-695. DOI: 10.3109/03639045.2012.687743, **IF 2.01**
32. Priyanka Bhadouriya, Manish Kumar and Kamla Pathak (2013) *In vitro drug release assessment of atenolol floating microspheres using multicompartement release apparatus* **Drug Dev Ind Pharm**, 39(11),1663-1671. DOI:10.3109/03639045.2012.729592, **IF 2.01.**
33. Prem Shankar Gupta, Vijay Sharma and Kamla Pathak (2013) *Melt sonocrystallized piroxicam for oral delivery: Particle characterization, solid state stability and pharmacokinetics* **Expert Opin. Drug Deliv**, 10(1), 17-32. DOI:10.1517/17425247.2013.736961, **IF 4.869**
34. Mayank Shekhar and Kamla Pathak (2013) *Glyceryl monooleate coated bioadhesive hollow microspheres microspheres of Riboflavin: Optimization and pharmacokinetics* **Drug Deliv Transl Res.** 3(3), 209-223. DOI: 10.1007/s13346-013-0143-1

35. Pooja Sharma and Kamla Pathak (2013) *Inulin based tablet in capsule device for variable multipulse delivery of aceclofenac: Optimization and in vivo fluoroscopy* **AAPS Pharm Sci Tech** 14(2):736-47. DOI:10.1208/s12249-013-9959-8. **IF 1.776**
36. Ajay Kumar, Vikas Bali, Manish Kumar, Kamla Pathak (2013) *Comparative evaluation of porous versus non-porous mucoadhesive films as buccal delivery system of Glibenclamide,* **AAPS Pharm Sci Tech**, 14(4), 1321-1332. DOI: 10.1208/s12249-013-0014-6. **IF 1.776**
37. Vijay Sharma and Kamla Pathak (2013) *Modified Xanthan Gum as Rapidly Disintegrating Hydrophilic Excipient for Time-Controlled Disintegrating Tablets of Roxithromycin* **Ind J Pharm Edu Res.**, 47 (4) 79-87, DOI: 10.5530/ijper.47.4.11, **IF 0.22**
38. Vijay Tyagi, Deshvir Singh and Kamla Pathak (2013) *Semi-Solid Matrix filled Capsules Containing Solid Dispersion of Amlodipine Besilate: Development and Assessment* **J Adv Pharm Tech Res.**, 4, 42-49. DOI:10.4103/2231-4040.107499.
39. Shobhita Mishra, Neeraj Patel, Manish Kumar, Kamla Pathak (2013) *Cross-linked mucoadhesive microspheres based on anionic heteropolysaccharide for nasal delivery of felodipine: optimization and in vitro evaluation* **Drug Deliv Letters**, 3, 136-148.
40. Ved Prakash, Lav Keshari, Vijay Sharma and Kamla Pathak (2013) *Taste masking of oxybutynin chloride using lipid excipients and formulation as orodispersible tablets for geriatric population* **Indian Drugs** , 50(10),39-46.
41. Smriti Kumari and Kamla Pathak (2013) *Cavamax W7 composite psoralen ethosomal gel versus cavamax W7 psoralen solid complex gel for topical delivery—a comparative evaluation.* **Int J Pharm Invest.**, 3(4), 171- 182. DOI: 10.4103/2230-973X.121284.
42. Deepesh Sahu, Om Prakash, Jitendra Dhari, Arun Kumar Sinha Vijay Sharma Kamla Pathak (2013) *KyronT114 as an effective precursor for development of Fixed dose combination orodispersible formulation using taste masked resinate* **Int J Drug Dev Res.**, 5(2); 99-112. **IF 0.18.**
43. Gaurav Ahuja, Kamla Pathak,(2013) *Inclusion of Amiloride Hydrochloride in Microporous Accurel MP 1000: Effect of solvents, drug loading and in vitro release* **Der Pharmacia Lettre**, 2013, 5 (5):241-251.
44. Suchitra Kaushik, Kamla Pathak (2013) *Solid Dispersion Adsorbates - A Novel Method for Enhancement of Dissolution Rates of Felodipine,* **Int J Pharm Sci Res Rev.** 21(1), 310-313.
45. Poonam Verma and Kamla Pathak (2012) *Nanosized ethanolic vesicles loaded with econazole nitrate for the treatment of deep skin infections through topical gel formulation,* **Nanomed: Nanotech, Biol Med.**, 8, 489-496. DOI: 10.1016/j.nano.2011.07.004, **IF 6.692**
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41. Deepa Pathak, Vijay Sharma, Kamla Pathak (2008) *Patented technologies of fast dissolving formulations* **Pharmacos**, 35, 30- 34.
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48. Ritesh Kumar, Jashanjit Singh, Anil Philip and Kamla Pathak, (2007) *Patented Active transport Transdermal drug delivery technologies*, **The Pharma Review**, Vol.7, No.26, 133-139.
49. Tarun Virmani and Kamla Pathak (2007) *Optimization and Pharmacokinetics of Therapeutic Antibodies*, *Pharmaceutical Reviews* volume 5, Issue 6 (online journal)
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50. Anil Philip and Kamla Pathak (2007) *Use of asymmetric capsular system for osmotic dosage form: A review*, **Pharma Times**, Vol.39, No. 2, 24-25.
51. Kamla Pathak, Sunita Dahiya, Devender Pathak and Rajiv Dahiya (2006), *Electrically assisted Drug Delivery*, **The Indian Pharmacist** Vol. V, 47, 27-30.
52. Seema Pushkar, Anil Philip, Kamla Pathak and Devender Pathak (2006) *Dendrimers: Nanotechnology Derived Novel Polymers in Drug Delivery*, **Indian J Pharm Ed Res**, 40, 153-158
53. Devender Pathak, Rajiv Dahiya, Kamla Pathak and Sunita Dahiya (2006) *New Generation Antipsychotics: A Review*, **Indian J Pharm Ed Res**, 40(2), 77-83.
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58. Vivek Panot, Kamla Pathak, Devender Pathak and S.N. Singh (1996) *Borderline Substances: A Review*, **IDMA Bulletin**, 12, 298-302.
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61. D Pathak, K Pathak and AK Singla (1991) *Flavonoids as medicinal agents-Recent advances*, **Fitoterapia**, 62, 371-389. **IF 2.231**

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65. Kamla Pathak and Devender Pathak (1989) *Migraine headache*, **Eastern Pharmacist**, 32, 61- 63

Miscellaneous write ups

1. Article in souvenir of 26th Annual conference of IPGA, New Delhi, 2nd April 2011
2. Article in souvenir of Seminar on “Ethical Principles in Pharmaceutical Research”, School of Pharmaceutical Sciences, Shobhit University, Meerut, 7th May 2011
3. Renuka Sharma and Kamla Pathak (2010) *The emerging field of nanosponges*, Pharma Student, 33-35.

Ph. D. PROJECTS GUIDED/ ONGOING PROJECTS

- Design and evaluation of osmotically regulated formulations of flurbiprofen and ketoprofen
- Studies on Development of Novel Formulations for some poorly soluble drugs
- To design and evaluate controlled release matrix tablets containing cyclodextrin complexes of poorly soluble drugs
- Development of Nanocrystals of Poorly Water Soluble Drugs for Improved Delivery
- Solubility enhancement of poorly water soluble drugs using potentials of liquisolid technique
- Development and Evaluation of Novel Formulation of Herbal Bioactives for Treatment of Epilepsy
- Ethosomal formulations for the improved topical delivery of some newer drugs

M. PHARM. PROJECTS SUPERVISED

2005-2006

1. Design and evaluation of osmotically regulated *in situ* formed asymmetric membrane capsule for controlled delivery of metformin hydrochloride
2. Product development studies of amino acid conjugate of aceclofenac
3. Studies on dissolution enhancement of meloxicam
4. Penetration enhancement studies on organogel of oxytetracycline HCl
5. Design and evaluation of osmotically controlled asymmetric membrane capsules of promethazine hydrochloride
6. Design and evaluation of pediatric formulation of indomethacin
7. Preparation and evaluation of three layer matrix of tramadol HCl
8. Performance evaluation of some marketed brands of diclofenac sodium SR tablets
Formulation and evaluation of release retardant diclofenac sodium tablets
9. Formulation and evaluation of oil entrapped floating beads of loratadine
10. Preparation, evaluation and formulation of microbeads of ketoconazole
11. Development of oral dosage form for pediatric patients: use of modified gums/ polymer as base of rapidly disintegrating oral tablets of roxithromycin

2006-2007

1. Preparation and evaluation of silica gel based multiparticulate modulated delivery of piracetam
2. Preparation and evaluation of nutraceutical formulation of *aegle marmelos*
3. Design and evaluation of target retentive periodontal drug delivery system of metronidazole and doxycycline
4. The use of solubility parameter in dosage form design of cefaclor
5. Mucoadhesive microemulsion based drug delivery systems for brain targeting
6. Formulation and evaluation of solid dispersions of etoricoxib
7. Preparation and evaluation of buccoadhesive drug delivery system of glipizide
8. Formulation and development of proniosomal gel for transdermal drug delivery of clonazepam
9. Design and evaluation of osmotically regulated delayed release asymmetric membrane in membrane capsule of cefadroxil
10. Preparation and evaluation of colon targeted drug delivery of flurbiprofen
11. Design and evaluation of pH-dependent colon targeted drug delivery system of mesalamine
12. Design and evaluation of floating drug delivery system of famotidine

13. Design and evaluation of polymeric dispersions of promethazine hydrochloride for extended drug release
14. Preformulative assessment of preformed inclusion complexes of gemfibrozil with cyclodextrins
15. Formulation and evaluation of microemulsion gel of nimesulide as an approach to enhance transdermal permeation.

2007-2008

1. Development of extended release formulation of glibenclamide using solid dispersion approach.
2. Solubility modulation of secnidazole by use of porous adsorbent carriers.
3. Formulation and evaluation of fast dissolving films of loratadine
4. The use of solubility parameter to design a topical hydrogel of meloxicam.
5. Approaches to enhance complexation efficiency of β -cyclodextrin complexes of gemfibrozil.
6. Development and evaluation studies on sustained release floating granules of cinnarizine using lipid excipients.
7. Investigation on binary and ternary solid systems of meloxicam.
8. Preparation and evaluation of buccoadhesive gels of glibenclamide.
9. Design and evaluation of osmotically regulated controlled release nutraceutical through asymmetric membrane capsule.
10. Preformulation studies on synthesized ketoprofen- glycine conjugate for colon targeting.

2008-2009

1. Design and evaluation of osmotically regulated tablet of flurbiprofen.
2. Design and evaluation of osmotically regulated asymmetric membrane capsules of phenylephrine hydrochloride.
3. Inclusion of amiloride hydrochloride in microporous PP homopolymer powder: drug loading, release and pharmacodynamics.
4. Development and evaluation of sugar polymeric surfactant dispersion of etoricoxib and assessment of thermodynamic stability on aging.
5. Formulation, characterization and biodistribution of oral nanoemulsion of amlodipine besilate.
6. Preparation, characterization and pharmacodynamic evaluation of fused dispersions of simvastatin using PEO-PPO block copolymer.
7. Preparation and evaluation of ternary inclusion complexes of itraconazole.
8. Development optimization and in vivo evaluation of solid lipid nanoparticles of simvastatin.
9. Formulation and evaluation of taste masked carbonated oral solid preparation of lamotrigine.
10. Formulation of nanosponge loaded hydrogel for topical controlled delivery of econazole nitrate.
11. Two compartment asymmetric membrane capsule for simultaneous controlled release of atenolol and amlodipine besilate.
12. Taste masking of oxybutynin chloride using lipid excipients and formulation as rapidly disintegrating tablets.
13. In vitro release modification of pravastatin sodium by use of cross-linked beta-cyclodextrin.

14. Mucoadhesive properties of methacrylic acid copolymer microspheres of pravastatin sodium on gastrointestinal mucosa: an in vitro and ex vivo evaluation

2009-2010

1. Design and evaluation of periodontal drug delivery system of metronidazole benzoate and serratiopeptidase.
2. Formulation of oil-in-water nanosized emulsion for passive targeting of melphalan.
3. Preparation and evaluation of naproxen-glycine conjugate for colon targeting.
4. Development and evaluation of dual controlled release microballoons containing riboflavin and citric acid: in vitro and in-vivo evaluation.
5. Design and evaluation of asymmetric membrane coated osmotically controlled tablets of triprolidine hydrochloride.
6. Use of single and double hydrophilization approaches to enhance in-vitro dissolution rate of lornoxicam.
7. Formulation and evaluation of mucoadhesive bilayered buccal patches of pravastatin sodium.
8. Microbially triggered colon specific delivery of 5-fluorouracil: statistical optimization in vitro, in vivo, cytotoxic and stability assessment.
9. Formulation and evaluation of taste masked rapid release tablets of sumatriptan succinate.
13. Novel ethanolic vesicles loaded with econazole nitrate for the treatment of deep skin infections through topical gel formulation.
10. Formulation, optimization, pharmacokinetics and biodistribution of nanostructured lipid carriers designed for oral lymphatic uptake of simvastatin.
11. Effect of melt sonocrystallization on formulation development and pharmacotechnical properties of paracetamol, indomethacin and mefenamic acid
12. Formulation and evaluation of semi-solid capsules containing solid dispersion of amlodipine besilate.

2010- 2011

1. Development, evaluation and comparison of porous and non porous mucoadhesive films for buccal administration of glibenclamide.
2. Development of taste masked fixed dose combination orodispersible tablets using kyron t-114 for effective management of cough, cold and allergy.
3. Development and characterization of Immediate release capsule of anti-arthritis drug.
4. Influence of nanostructured lipid carrier on the permeability and stability of econazole nitrate administered by topical route.
5. Dual approach of drug delivery via osmotically regulated floating asymmetric membrane capsule of ranitidine hydrochloride.
6. Comparative study of surface solid dispersion and solid dispersion of meloxicam for development and evaluation of orodispersible tablet.
7. Development and characterization of nanoemulsified *in-situ* gel for ophthalmic delivery of fluconazole.

8. Development of cavamax W7 composite ethosomal gel of clotrimazole for improved topical delivery.
9. Development, statistical optimization and characterization of promethazine teoclate loaded solid lipid nanoparticles.
10. Effect of melt sonocrystallization on physicochemical, pharmacotechnical and pharmacokinetic properties of piroxicam.
11. Formulation and evaluation of microspheres as a floating drug delivery system of Atenolol.
12. Formulation & evaluation of taste masked chewable tablets of levocetirizine dihydrochloride & montelukast sodium.
13. Studies on meloxicam microsponges for colon targeting: formulation and evaluation.
14. Solubility enhancement of poorly water soluble drug cinnarizine by solid dispersion method.
15. Preparation and evaluation of liposomal gel formulation containing antifungal drug.
16. Development and evaluation of buffered ziprasidone HCl nanoemulsion for nasal delivery.
17. Formulation and evaluation of oral nanoemulsion of olmesartan medoxomil.

2011-2012

1. Cross-linked guar gum microspheres of piroxicam: a viable approach for colonic delivery.
2. Development and evaluation of sustained release tablets of glipizide using lipid excipients.
3. Development of an oral delivery system for ivermectin based on surface solid dispersion technique intended for veterinary use.
4. Formulation and in-vitro evaluation of buccoadhesive tablets of an antihypertensive drug: Enalapril.
5. Development and evaluation of triggered polymeric nonoparticulate in-situ gel for ophthalmic delivery of acetazolamide.
6. Development of periodontal sol of ciprofloxacin hydrochloride and serratiopeptidase:in-vitro and ex-vivo evaluation.
7. Development and evaluation of bioadhesive hollow microspheres of riboflavin.
8. Development and characterization of felodipine loaded transfersomes for transdermal delivery.
9. Development and characterization of pulsatile release tablet in capsule device for the delivery of aceclofenac.
10. Formulation and evaluation of thermally triggered mucoadhesive in-situ nasal gel of loratadine.
11. Design and evaluation of osmotically regulated asymmetric membrane capsules of venlafaxine hydrochloride.
12. Development and evaluation of an effervescent gastro-retentive drug delivery system of repaglinide.
13. Development and evaluation of felodipine loaded mucoadhesive microspheres for nasal drug delivery.
14. Development of composite psoralen ethosomes for improved drug delivery in localized psoriatic lesion.

2012-2013

1. Product development studies of riboflavin lipid conjugate for improved corneal epithelial penetration in treatment of keratoconus.
2. Development and evaluation of colon targeted tableted microspheres of lornoxicam.
3. Development of CODES™ based delivery system for colonic delivery
4. Development of tablets in capsule pulsatile system of losartan potassium
5. Development and characterization of transfersomes for transdermal delivery of paclitaxel in management of aids related kaposi's sarcoma
6. Development and characterization of isotretenoin loaded invasomal gel for the treatment of eosinophilic pustular folliculitis.
7. Novel gastro retentive system for simultaneous delivery of clarithromycin and ranitidine HCl
8. Development and evaluation of pH triggered chitosan nanoparticulate in-situ gel for ophthalmic delivery of norfloxacin
9. Development and evaluation of papain based in-situ gelling system for chemomechanical caries removal
10. Development and evaluation of mucoadhesive floating microspheres of diltiazem hydrochloride
11. Formulation and evaluation of floating microsponges of curcumin for stomach specific drug delivery

2013-2014

1. Design and evaluation of osmotically regulated gastroretentive asymmetric membrane capsule of acyclovir.
2. Formulation and evaluation of thermally triggered mucoadhesive in-situ gel of repaglinide for nasal delivery.
3. Effect of melt sonocrystallization on solubility characteristics of curcumin.
4. Development and characterization of nail lacquer for unguinal delivery of isotretinoin for nail psoriasis.
5. Polymeric micellar ocular delivery system of itraconazole for the management of fungal keratitis.
6. A novel system for two pulse release of ketorolac tromethamine based on "microspheres and tablet in capsule system" (MATICS) for rheumatoid arthritis.
7. Formulation and evaluation of buccoadhesive tablets of fluconazole for localized delivery in oral cavity.
8. Bioadhesive floating microsponges of cinnarizine: development and evaluation.
9. Development of surface solid dispersion filled coated capsule of loperamide

2014-15

1.

CONFERENCES, SEMINARS, SYMPOSIUM AND WORKSHOPS ATTENDED

1. 30th Annual Conference of Indian Pharmacy Graduates' Association, "Role of Pharmacist in Digital India" Saturday, 31st October 2015.
2. CICON-2015, 5th National Conference on Emerging Trends in Science, Engineering, Technology and management: Research and Development, Shobhit University, NH-58, Modipuram, Meerut, UP, India.
3. XXXIII Annual Conference of Society of Toxicology (India) ,23rd-25th Oct 2013, DUVASU, Mathura
4. 17th APTI Convention, Manipal, Oct 12th-15th 2012.
5. Emerging Trends in Pharmaceutical Sector of India, 24th Mar 2012, Rajiv Academy for Pharmacy, Mathura
6. Indian Congress of Pharmacy and Pharmaceutical Sciences 2009 and IPA Convention, March 14-15, 2009, DIPSAR, New Delhi.
7. 60th Indian Pharmaceutical Congress New Delhi, Dec 2008.
8. National conference on Nano, Bio and Information Technology Integration, March 23-25, 2007 at Sanjay Institute of Engineering and Management, Mathura
9. Fourth International Conference of Society of Pharmacovigilance, India, Jaipur, Nov., 2007
10. IPGA Seminar on Expectations of Pharma Industry from Educational Institutions on 10th March 2007
11. National Symposium on Relevance of Pharmacovigilance for Indian System of Medicine, 4th Nov., 2006, A.M.U., Aligarh
12. Third International Workshop and conference on Society of Pharmacovigilance, India, Agra, Dec., 2003
13. Silver Jubilee Conference on IPGA, New Delhi, Feb. 1999
14. Advances in Liposomal Technology - Dream to Reality, Sagar, March 1998
15. National Symposium on Herbal medicine, SBSIBS, Dehradun, March 1997
16. Workshop on Design and evaluation of New Drug Delivery Systems, Manipal, Oct 1995

17. Zonal workshop on ER-91 and Orientation programme for the teachers of Pharmacy, Udaipur, April 1995.
18. Seminar on Biotechnology in Medicine- Perspective and prospects, Chandigarh, March 1990.
19. 48th Indian Pharmaceutical Congress Chennai, Dec 1996.
20. 42nd Indian Pharmaceutical Congress Manipal, Dec 1990.
21. 41st Indian Pharmaceutical Congress Bombay, Dec 1989.
22. 38th Indian Pharmaceutical Congress Ahmadabad, Dec 1986.