



School: Natural Resources

Department: Pharmacy

Phone: 8871211758

Email: akjain.ie@gmail.com

Personal Webpage Link : NA

Name: Dr. Akhlesh Kumar Jain

Qualifications

Examination	Name of the Board/University	Year of passing	Division/Class/Grade
B. Pharm.	Dr. H.S. Gour University, Sagar, India.	1999	Ist
M. Pharm.	Dr. H.S. Gour University, Sagar, India.	2001	Ist
PhD.	Jamia Hamdard, New Delhi Indian Institute of Chemical Sciences, (IICT, CSIR) Hyderabad	2006	NA

Area of Interest/Specialization: Pharmaceutics; Drug delivery, Formulation of Nanoparticles, Non-Invasive delivery of therapeutic proteins and Vaccines using ligand coupled vesicular & nano-constructs, Nano-conjugates chemistry and drug targeting, Protein conjugates for per oral delivery;. Pegylated lipid vesicles for targeted delivery; Targeting of chemotherapeutic agents to cancerous regions

Experience Teaching

S. No.	Name of the Inst./Employer	Position Held	Duration (From-to)	Major Job Responsibilities and Nature of Experience
1	S D college of Pharmacy Barnala, Punjab	Professor	12-10-11 to 16-01-12	Teaching and administration
2	Guru Ghasidas University, Koni, Bilaspur	Assistant Professor	18-01-12 to till date	Teaching and administration

Research

S. No.	Name of the Institution	Position Held	Duration (From-to)	Major Job Responsibilities and Nature of Experience
1	Saket Biotechnologies Pvt Ltd. Hyderabad	Formulation Scientist	18/03/2001 to 24/03/2003	Worked on oral insulin delivery formulations
2	Central Drug Research Institute, Lucknow	Senior Scientist	08/12/2006 to 14/10/2008	Worked nanocarriers for selective cancer/tumor targeting
3	Dublin City University, Ireland	Post Doc researcher	31/10/2008 to 24/08/2009	Fusogenic liposomes for CS-BOTIM based neuronal delivery
4	University College Cork, Ireland	Post Doc researcher	25/08/2009 to 24/08/2010	Modified cyclodextrin for siRNA delivery

5	National University of Singapore, Singapore	Research Fellow	26/092010 to 25/092011	Nanocarriers for selective targeting to HCC
---	---	-----------------	------------------------	---

Awards and Honors:

- 2019** : Best Paper award & Commendation Medal, Guru Ghasidas University Bilaspur
- 2018** : Best poster award at Pt. Ravishankar Shula University Raipur
- 2003** : Senior Research Fellowship (CSIR, Based on National Aptitude Screening Test) HRD, Govt. of INDIA
- 1999** : Junior Research Fellowship (Graduate Aptitude Test in Engineering-99) IIT, Bombay, INDIA

Research Projects:

S.No.	Title	Role	Agency	Period	Amount Sanctioned	File no. and date	Status
1	Mucoadhesive colloidal carriers for mucosal immunization	PI	UGC	28-10-2012 to 27-1-2014	6,00000	BSR-UGC 12(3)-2012 28/10/2012	Completed
2	Preclinical development of patented biphenyl.....for the effective management of type 2 diabetes	PI	ICMR	23-08-2019 to 23-08-22	19,12970	58/03/2019/ BMS/PHA 23/02/2019	Completed

International Collaboration/Consultancy: NA

Best Peer Reviewed Publication (up-to 10):

1. K Mishra, P Ratre, S Thareja, AK Jain Polymeric Nanoparticles of Aromatase Inhibitors: A Comprehensive Review Current Pharmaceutical Design 27 (6), 855-865
2. AK Jain, H Sahu, K Mishra, S Thareja Mannose Conjugated Starch Nanoparticles for Preferential Targeting of Liver Cancer Current drug delivery, 2021
3. AK Jain, K Mishra, S Thareja In Silico, Docking of Anti Cancerous Drugs with β -Cyclodextrin polymer as a Prominent Approach to Improve the Bioavailability. Anti-cancer Agents in Medicinal Chemistry, 2020.
4. K Mishra, SK Verma, P Ratre, L Banjare, A Jain, S Thareja, AK Jain, In Silico Molecular Interaction Studies of Chitosan Polymer with Aromatase Inhibitor: Leads to Letrozole Nanoparticles for the Treatment of Breast Cancer. Anti-cancer Agents in Medicinal Chemistry, 2020.
5. AK Jain, S Thareja In vitro and in vivo characterization of pharmaceutical nanocarriers used for drug

delivery. Artificial cells, nanomedicine, and biotechnology 2019 47 (1), 524-539

6. Jain, Akhlesh K. R.K. Khar, F. J. Ahmed and Diwan, P.V., Effective insulin delivery using starch nanoparticles as a potential trans-nasal mucoadhesive carrier Eur J Pharm Bio 69;2, 2008, 226-435.
7. Jain, Akhlesh K. Chalasani, K.B., R.K. Khar, F. J. Ahmed and Diwan, P.V Muco-adhesive multivesicular liposomes as an effective carrier for transmucosal insulin delivery Journal of Drug Targeting. 15:6, 2007, 417 – 427.
8. Chalasani, K. B., G. J. Russel-Jones, Jain, A.K., S. K. Jain and Diwan P.V., Effective Oral Delivery of Insulin in animal models using Vitamin B12-coated Dextran Nanoparticles. Journal of controlled release 122 (2007) 141-150.
9. S.K., Jain, M.K., Chourasia, A.K., Jain, R.K., Jain, and A.K., Shrivastava. Development and characterization of mucoadhesive microspheres bearing salbutamol for nasal delivery. Drug Delivery, 11, 2004, 113-122.
10. Chauhan, A. S., Sridevi, S., Chalasani, K. B., Jain, A.K., Jain, S.K., Jain, N.K., and Diwan, P.V. Dendrimer mediated Transdermal Delivery: enhanced bioavailability of indomethacin. Journal of controlled release, 90, 2003, 335-343.

Recent Books/Book Chapters/Monographs etc.:

Book Chapters

1. Akhlesh K Jain, S K Jain, Nanocarriers mediated Protein delivery, (In press) CRC Press USA 2019, ISBN no. 9781351138901
2. Akhlesh K Jain, Solid Lipid Nanoparticles, Springer, USA
3. Akhlesh K Jain, In vitro In Vivo characterization of Pharmaceutical nanocarriers, Springer, USA
4. Introduction to nanomaterials to drug delivery, Elsevier, ed. Yasser Shahzad in press
5. Nanoparticles for lung targeting. Elsevier, ed. Yasser Shahzad in press

Published Books:

1. Nanoparticles and Nanocarriers- Based Pharmaceutical Formulations Editors: Akhlesh K. Jain, Keerti Mishra 1st Edition 2022, Bentham books, ISBN: 978-981-5049-79-4.
2. Akhlesh K Jain, keerti Mishra, Introduction to pharmaceuticals and Biopharmaceutics. 978-93-89802-33-7 New age Publisher New Delhi S K, Jain, Akhlesh K Jain, N K Jain, Dinesh Mishra, Handbook of Practical Pharmaceutics, Vallabh Prakshan, 2018, New Delhi, India, ISBN no: 978-93-85529-17-7.
2. Akhlesh K Jain, keerti Mishra, Introduction to pharmaceuticals and Biopharmaceutics. 978-93-89802-33-7 New Age Publisher New Delhi, 2022
3. Akhlesh K Jain, keerti Mishra, Novel drug delivery systems. New age Publisher New Delhi, In press

Research Supervision:

Ph.D. Students guided/under guidance (Details): 02+01

Total no. of M. Pharm. Students guided:10

Administrative Responsibilities: Team member PCI approval & Incharge Departmental HPLC units

Additional Information: NA