

Curriculum Vitae

 **Dr. Harsh Yadav** (Ph.D. in Pharmacy)

 **Home Town:** Bilaspur Chhattisgarh, India

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Objective: To continuously upgrade my professional attitude and excel in academics & research.

Expertise:

Development and characterization of galactomannan-based drug delivery carriers for BCS Class II/IV drugs. Modification/derivatization of natural polysaccharides. Animal handling in an *in-vivo* streptozotocin-induced diabetic model. Characterization of natural polysaccharides through NMR and IR.

Educational Qualifications:

Qualification	Institute / College	Board / University	Year	Percentage (%)
Ph. D in Pharmacy	Department of Pharmacy Indira Gandhi National Tribal University (A Central University) Amarkantak, Madhya Pradesh	I.G.N.T.U	2018-2024	8.33 (SGPA)
M-Pharmacy (In Pharmaceutical Chemistry)	School of Chemical Sciences and Pharmacy Central University of Rajasthan (A Central University) Ajmer, Rajasthan	C.U.RAJ	2013-2015	69.30
B-Pharmacy	S.L.T Institute of Pharmaceutical Sciences Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, Chhattisgarh	G.G.U	2009-2013	65.91

Important Links:

Google Scholar: <https://scholar.google.co.in/citations?hl=en&user=BdvBvccAAAAJ>

LinkedIn: <https://www.linkedin.com/in/harshdv8/>

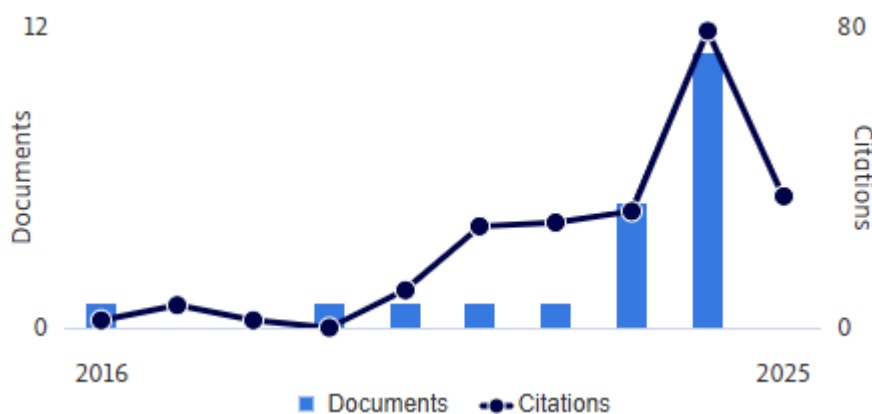
Research Gate: <https://www.researchgate.net/profile/Harsh-Yadav-23>

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57215601285>

Scopus ID: 57215601285

ORCID ID: <https://orcid.org/0000-0001-9328-0512>

Documents & citation trends:



Citations Index:

Particulars	h-index	i10	Citations
Google	07	07	239
Scopus	07	-	220

Ph.D. Thesis Title:

- Development of Polysaccharide-based Drug Delivery Carriers

M. Pharm Thesis Title:

- Synthesis and characterization of PLGA-PEG di-block co-polymeric micelles loaded with tamoxifen.

Grants Received:

1. “Senior Research Fellowship-2022” awarded by Indian Council of Medical Research (ICMR), New Delhi, India. (Total Budget: INR 15,84,600)
2. “UGC non-NET fellowship” from University Grant Commission, Govt of India and Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, India, (Total Budget: INR 3.84 Lakh)

Awards & Honors:

1. “Senior Research Fellowship” awarded by Indian Council of Medical Research (ICMR), New Delhi, India (2022-2025).
2. Qualified **CUCET** Got for a 1 year's scholarship from the Central University of Rajasthan
3. RET-AIR-1, NMAT, **GPAT**, and **NIPER** Qualified.

Project Undertaken:

UGC-MRP Project entitled “Synthesis and Biological Evaluation of some novel 2-(N-Substituted)-3H-Phthalazine-1,4-Dione analogues for their potential Antihypertensive activity”. For a period of 23/08/2016 to 31/12/2016 (Principal Investigator: Dr. K. P. Namdeo)

TEACHING/PROFESSIONAL/RESEARCH EMPLOYMENT

(Particulars in descending order starting with the present post):

Status of Institute/ University*	Post held	Period of Employment		Nature of duties/work
		From	To	
LCIT School of Pharmacy, Bilaspur (C.G)	Assistant professor	17-12-2024	Till date	Teaching B-Pharm students
Chouksey Engineering College School of Pharmacy, Bilaspur (C.G)	Assistant professor	02-02-2017	17-06-2017	Teaching B-Pharm students
SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G)	Project Fellow	23-08-2016	31-12-2016	UGC-MRP Project Fellow
J K College of Pharmacy, Bilaspur (C.G)	Assistant professor	25-08-2015	15-06-2016	Teaching B-Pharm students

Publications:

Research Papers:

- [1] **Yadav H**, Maiti S. Locust bean gum glutarate nanocomposite hydrogel microspheres of gliclazide: Optimization by box-Behnken design and preclinical evaluation of anti-diabetic efficacy. International Journal of Biological Macromolecules. 2024 Oct 28:136963 <https://doi.org/10.1016/j.ijbiomac.2024.136963> (**Impact Factor:7.7**)
- [2] **Yadav H**, Maji B, Maiti S. Novel succinoylated carboxymethyl guar gum nanocarriers of glimepiride for controlling type-2 diabetes. Medicine in Novel Technology and Devices. 2024 May 29:100309, <https://doi.org/10.1016/j.medntd.2024.100309> (**Impact Factor:3.0**)
- [3] **Yadav H**, Maiti S. Poly (allylamine)-adorned heptylcarboxymethyl galactomannan nanocarriers of canagliflozin for controlling type-II diabetes: Optimization by Box-Behnken design and in vivo performance. International Journal of Biological Macromolecules. 2024 Jul 30:134253, <https://doi.org/10.1016/j.ijbiomac.2024.134253> (**Impact Factor:7.7**)

- [4] **Yadav H**, Kumar P, Sharma V, Sharma G, Raza K, Katare OP. Enhanced efficacy and a better pharmacokinetic profile of tamoxifen employing polymeric micelles. *RSC advances*. 2016;6(58):53351-7, <https://doi.org/10.1039/C6RA10874A>. (*Impact Factor:3.9*)
- [5] Agrawal R, **Yadav H**, Patel J, Sulakhiya K, Maiti S. Inorganic metal salts as additives in the design of cellulose/arabinogalactan hydrogels for prolonged delivery of simvastatin in simulated bio-fluids. *Journal of Vinyl and Additive Technology*. 2024 Mar;30(2):515-29, <https://doi.org/10.1002/vnl.22065>. (*Impact Factor:3.8*)
- [6] Panday A, **Yadav H**, Patel J, Paliwal R, Maiti S. Calcium silicate-reinforced pH-sensitive alginate-gellan gum composite hydrogels for prolonged drug delivery. *Journal of Applied Polymer Science*. 2023 Oct 5;140(37):e54392, <https://doi.org/10.1002/app.54392>. (*Impact Factor:2.7*)
- [7] Rai M, Lakra P, **Yadav H**, Maiti S. Nanoemulsion-laden poly(vinyl) alcohol hydrogel films for transdermal delivery of carbamazepine. *J Vinyl Addit Technol*. 2024; 1-16, <https://doi.org/10.1002/vnl.22116>. (*Impact Factor:3.8*)
- [8] Vishwakarma A, **Yadav H**, Lakra P, Sulakhiya K, Paliwal R, Maiti S. Madhuca indica oil-entrapped buoyant galactomannan hydrogel microspheres for controlling epileptic seizures. *International Journal of Biological Macromolecules*. 2024 May 31:132739. (*Impact Factor:7.7*)

Review Papers:

- [1] Maiti S, Maji B, **Yadav H**. Progress on green crosslinking of polysaccharide hydrogels for drug delivery and tissue engineering applications. *Carbohydrate Polymers*. 2023 Nov 15:121584, <https://doi.org/10.1016/j.carbpol.2023.121584>. (*Impact Factor:10.7*)
- [2] **Yadav H**, Maiti S. Research progress in galactomannan-based nanomaterials: Synthesis and application. *International Journal of Biological Macromolecules*. 2020 Nov 15; 163:2113-26, <https://doi.org/10.1016/j.ijbiomac.2020.09.062>. (*Impact Factor:7.7*)
- [3] **Yadav H**, Agrawal R, Panday A, Patel J, Maiti S. Polysaccharide-silicate composite hydrogels: Review on synthesis and drug delivery credentials. *Journal of Drug Delivery Science and Technology*. 2022 Aug 1; 74:103573, <https://doi.org/10.1016/j.jddst.2022.103573>. (*Impact Factor: 4.5*)
- [4] Maiti, S., Maji, B., Badwaik, H., Pandey, M. M., Lakra, P., & **Yadav, H.** (2024). Oxidized ionic polysaccharide hydrogels: Review on derived scaffolds characteristics and tissue engineering applications. *International Journal of Biological Macromolecules*, 280, 136089. <https://doi.org/10.1016/j.ijbiomac.2024.136089>. (*Impact Factor:7.7*)

Book Chapters:

- [1] **Yadav H**, Karthikeyan C. Natural polysaccharides: Structural features and properties. In *Polysaccharide carriers for drug delivery* 2019 Jan 1 (pp. 1-17). Woodhead Publishing.
- [2] **Yadav H**, Maurya A, Agarwal A, Singh AK, Dubey S, Moktan Tamang A, Agrawal R, Chaudhary SK. Strategies to Combat Multidrug Resistance by Non-traditional Therapeutic Approaches.

In Non-traditional Approaches to Combat Antimicrobial Drug Resistance 2023 Feb 14 (pp. 57-78). Singapore: Springer Nature Singapore.

- [3] **Yadav H**, Dubey S, Khan NS, Dixit AK. Nanoherbals Drug Delivery System for Treatment of Chronic Asthma. *Advances in Novel Formulations for Drug Delivery*. 2023 Mar 27:473-90.
- [4] Maurya A, Singh AK, **Yadav H**, Mishra G, Awasthi R, Mishra SK, Chaudhary SK. Role of Phytoconstituents in Targeting Cytokines for Managing Pathophysiology of Lung Diseases. *Targeting Cellular Signalling Pathways in Lung Diseases*. 2021:783-803.
- [5] **Yadav H**, Gupta L, Dubey S, Maiti S, Yadav N. Economical importance, structural diversity, and properties of natural gums. In *Natural Gums 2023* Jan 1 (pp. 23-53). Elsevier.
- [6] **Yadav H**, Dubey S, Mehta A, Gadkari P, Tekchandani P, Maiti S. Sophisticated techniques for characterization of polysaccharide hydrogels. In *Polysaccharides-Based Hydrogels 2024* Jan 1 (pp. 139-171). Elsevier.
- [7] Sangya Dubey, Janhavi Singh, Manasvi Saini, Chaitanay Vinayak Narayan, Shallu Singh, Shikha Baghel Chauhan, Indu Singh, **Harsh Yadav**, and Sachin Gupta. *Introduction to Diabetes Mellitus and Its Management, Naturally Occurring Chemicals for the Treatment and Management of Diabetes Mellitus and Related Disorders*, 2024 April 29, ISBN: 979-8-89113-491-1, <https://doi.org/10.52305/WBBQ6236>.
- [8] Maiti S, Paliwal R, **Yadav H**. Progress in Nanocarrier-Mediated Intracellular Drug Delivery. In *Nanomedicine, Nanotheranostics and Nanobiotechnology 2024* August, (pp. 12) CRC Press. <http://dx.doi.org/10.1201/9781003130055-10>
- [9] **Yadav H**, Subash P., Dubey S, Maurya A, Singh R, Maiti S. Recent Developments in Nanotechnology-Based Therapeutics for the Treatment. *Molecular Targets and Therapeutic Interventions Against Neurodegenerative Diseases*. 2025 Mar 31:256.

Paperback Books:

- [1] Pharmaceutical Jurisprudence for B. Pharm. 5th Semester Paperback by Shweta Singh Chauhan (Author), Dr. Puspendra Kumar (Author), & Harsh Yadav (Author) (ISBN: 978-93-94919-15-0)

International/National Conferences:

Sl. No.	Title of the paper presented	Title of Conference/ Seminar etc.	Date of event	Organized by	Level
1.	To uncovered the potential of galactomannan-based nanomicelles in improving therapeutic effectiveness of sodium-glucose cotransporter 2 (SGLT2) inhibitor classes of antidiabetics	BioStart: Bridging Innovative Research & Startups in Pharmaceuticals	28-04-2024	S.D. College of Pharmacy & Vocational Studies, Muzaffarnagar-251001, U.P., India	International

2.	Glutaric Anhydride Reinforced Galactomannan Nanocomposite Hydrogel Microspheres: Optimization By Response Surface Methodology and Evaluation of Drug Delivery Performance	An Emerging Interface between Life Science and Nanotechnology: Present Status and Future Prospects	29-02-2024	Department of Pharmaceutics, Periyar College of Pharmaceutical Sciences, Tiruchirappalli. 620021	International
3.	Development of polysaccharide-based drug delivery carriers	New Horizon of Health Science	4 th -5 th March 2020	School of Pharmacy, Chouksey Engineering College, Bilaspur Chhattisgarh, India.	International
4.	Enhanced efficacy & better pharmacokinetic profile of tamoxifen employing polymeric micelles	“Frontier in Pharmaceutical Sciences and Research” with the theme “Advances in Development, Delivery System and Clinical Monitoring of Drugs”	23 rd & 24 th September, 2017	Columbia Institute of Pharmacy, Raipur, Chhattisgarh, India.	International
5.	Synthesis & Characterization of PLGA-PEG Diblock Copolymeric Nanoparticle; Tamoxifen	Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges”.	17-18 February, 2015	Department of Pharmacy, Central University of Rajasthan, Bandar Sindri, Ajmer, Rajasthan, India.	National

Workshops:

- One-day workshop on E-resources, Reference management tool: Mendeley, and anti-plagiarism software: Urkund /Turnitin organized by Prof. Ram Dayal Munda Central Library, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, India on 22nd November 2019.
- One-week Hands-on Training Workshop under DST-STUTI PROGRAMME OF IIT (ISM) DHANBAD on “Preparation and Characterization of Oral Solid Dosage Form” during June 10 - 16, 2022 Organized by DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY, BIT MESRA, RANCHI, Funded by: Department of Science & Technology (DST), Govt. of India

Industrial Visit:

- Industrial visit at RANBAXY, PLETHICO PHARMACEUTICALS LIMITED, NANDINI MEDICAL LABS. (P) LIMITED, Dewas Madhya Pradesh (M.P.)

Language Known:

Chhattisgarhi, Hindi and English

Professional Expertise:

1. 10 years of combined experience in academics and research.
2. Hands-on experience with Spectrofluorophotometer, XRD, TGA, NMR, FT-IR, UV-visible spectroscopy, Fluorescence Microscope, bath sonicator, Animal handling, etc.

3. Synthesis and characterization of natural polysaccharide-based drug delivery carriers, targeted drug delivery. Preparation and characterization of polymeric nanoparticles made from natural polysaccharides such as guar gum, locust bean gum, xanthan gum, chitosan, gelatin, and lipid nanoparticles. Preparation and characterization of microspheres, nano-emulsions, patches, film, liposomes, hydrogel, etc.
4. Operating Systems, M. S. Office Package, GraphPad Prism, MestReNova, ChemBioDraw, ImageJ, R-Software, Origin, SigmaPlot, Corel Draw, Works on Schrödinger and E-DRAGON online software, Adobe Premier Pro and Video Editing

Professional Memberships:

- Registered Pharmacist at Chhattisgarh State Pharmacy Council, Raipur, Chhattisgarh, India.

Community Service/Departmental Representation:

- General secretary of the Department Club (Pharma Zest) at the Central University of Rajasthan (2013-2015).
- Elected Member of Student Council at Central University of Rajasthan (2013-14).
- I have worked as a design board member in a university student magazine named “UDAAN” (2010-2013).
- Participated in voluntary blood donation camp

Professional References:

Prof. (Dr.) Sabyasachi Maiti

Dean: Faculty of Pharmacy
Department of Pharmacy, Indira Gandhi National
Tribal University, Lalpur, Amarkantak, 484887,
Madhya Pradesh, India.

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DECLARATION:

I, the undersigned, certify that to the best of my knowledge and belief, these curriculum vitae truly describe my personal, qualifications and experience.

Place: Bilaspur (C.G.) 495004

Date: 8-Apr-25



(HARSH YADAV)