

# Manju Singh

E- mail: manjursu@gmail.com;

drmanjursingh@gmail.com

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Plot No: 4, Lokmanya tilak housing society,  
Near gole chowk, Pt. D.D.Nagar, Raipur  
(C.G.) 492010

**Cell Phone: 91- 8109797927**  
**Phone Work: 91-771-2262832**  
**Phone Home: 91-9625438257**

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## ACADEMIC QUALIFICATION

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<b>Post-doc</b>	Univ of Mississippi, Oxford, USA	2014
<b>Ph.D.</b>	UIOP, Pt. R.S.U. Raipur (C.G.)	2009
<b>M.Pharm.</b>	Dr. H.S. Gour V.V. Sagar, (M.P.)	2004
<b>B.Pharm.</b>	H.N.B. Garhwal Central University (U.K.)	2001
<b>Intermediate</b>	C.B.S.E Board, New Delhi	1996
<b>High School</b>	C.B.S.E Board, New Delhi	1994

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**Ph.D. Topic “Development and Characterization of Novel Delivery Systems for Proteins and Peptides”**

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**M. Pharm (Pharmaceutical Biotechnology) Topic “Controlled and prolonged interferon therapy using a novel approach”**

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**WORK EXPERIENCE**                      **20 years**

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**RESEARCH EXPERIENCE**              **18 years**

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**TEACHING EXPERIENCE**              **20.6 years**

**Professor**                      22 Dec 2023 to till date University Institute of Pharmacy,  
Pt. Ravishankar Shukla Univ, Raipur 492 010, C.G

**Associate Professor**              22 Dec 2020 to 21 Dec 2023 date University Institute of Pharmacy,  
Pt. Ravishankar Shukla Univ, Raipur 492 010, C.G

<b>As Assistant Professor</b>	Oct 2008 to Dec 2020 University Institute of Pharmacy, Pt. Ravishankar Shukla Univ, Raipur-492 010, C.G
<b>As Lecturer</b>	Nov. 2005 to Oct 2008, Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur- 492 010, C.G
<b>As Lecturer</b>	Nov. 2004 to Oct. 2005: Rameesh Institute of Pharmaceutical Sciences, Greater Noida, (U.P.).

## **ADMINISTRATIVE EXPERIENCE**

**Member-**Board of studies July 2011-June 2014; July 2019 to till date

**Member-** Committee for the Purpose of Control and Supervision on Experiments on Animals  
(CPCSEA) Govt. of India

**Ex-member Secretary-**Staff council 2013

**Member-**Departmental Research Committee

**Member-**Department anti-ragging committee 2017-till date

**Warden-** University Professional Girls' hostel since Nov 2011-Dec2017

## **RESEARCH GUIDANCE**

Approved Ph.D. Guide at Pt. Ravishankar Shukla University, Raipur (C.G.)

Ph.D. awarded- 04 (March 2016, Jan 2019, May 2022; Feb 2025); 01 (submitted)

Students enrolled - 04

M.Pharm Students Guided- 14

## **FELLOWSHIP / AWARDS**

### **International**

1. DHR ICMR International Fellowship 2015 for research at Department of Pharmaceutics, University of MS, Oxford, USA.
2. Among the top 2% of scientists across the world in the field of Pharmacy and Pharmacology in a survey conducted by Stanford University, United States for consecutive 3 years (2021, 2022, 2023).

### **National**

3. APTI Prof. C.J.Shishoo Award for research in pharmaceutical sciences at Bhubaneswar 2024

4. Dr. Ambikanandan Misra Award for Best researcher in Pharmaceutical Sciences, at Pharma conclave, New Delhi, December 2022
5. UGC Research Award (Recommended) 2013.
6. UGC travel grant for attending 11th International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012.
7. DST travel grant for attending international conference at AAPS National Biotechnology conference, 21 May-23 May 2012, San Diego, U.S.A.
8. CCOST travel grant 2011 for attending 11th International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012
9. Qualified National Level Test GATE conducted by Indian Institute of Science, Bangalore with 88.00 percentile.
10. Received AICTE-JRF Scholarship for pursuing M.Pharm.
11. AICTE-UKIERI Technical Leadership Development Programme for the AY 2018-19.

### **Regional**

12. Pratibha Sammaan Award 2024
13. C.G. Young Pharma women of Chhattisgarh in Pharma meet 2020 by IPA and CGYPA, 1<sup>st</sup> March 2020.
14. 4th Young Scientist Award of Chhattisgarh state in Biotechnology 2006.
15. Best Teacher award of Pt. Ravishankar Shukla University in science section 2016.
16. Received Best Paper Award in Seminar of Indian Society of Pharmacognosy at University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, 14-16 March 2006.
17. Received 1st, 3rd, 1st prize in District and State Level Essay Writing Competition respectively, Organized by Ministry of H.R.D., Department of Culture, Govt. of India in the year 1991, 1992 and 1995.

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## RESEARCH PROJECTS

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### Individual projects

S. No	Principal Investigator	Title	Sponsoring Agency	Amount (lakhs)	Status
1.	Dr. Manju Singh	Formulation and optimization of dual drug loaded sphingolipid vesicles in gel for treatment of Psoriasis	DHR-ICMR(Department of Health research-Indian council of medical research) 2016	30.10	Ongoing
2.	Dr. Manju Singh	Corticosteroid and Keratolytic agent loaded nanostructured lipid constructs: Novel topical system for treatment of psoriasis	Major Research Project. UGC, 2012.	9.75	Completed (Utilization submitted)
3.	Dr. Manju Singh	Natural polymer based lipospheres: Versatile delivery carriers for proteins and peptides	Chhattisgarh Council of Science and Technology, Chhattisgarh in 2011.	2.0	Completed

### Group projects

S. No	Role	Proposed research area/	Sponsoring Agency	Sanctioned Amount (lakhs)
1.	Core member	One prime area proposed is Protein and peptide delivery	DST-FIST	35.0
2.	Co-Coordinator	Identification, documentation, conservation, isolation, and development of delivery systems for treatment of diseases/disorders	National Centre for natural resources funded by Department of Science and Technology, India	1000.0

		prevalent in the state of Chhattisgarh		
3.	Core member	“Traditional knowledge of medicinal plants consumed by primitive tribes of Bastar Chhattisgarh: Development of database and strategy for value addition and sustainable livelihood via Fin-tech	IIT Bhilai	30.26 Lakh

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## RESEARCH AREA

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- Dermal delivery systems and detailed dermatokinetics
- Formulation of multiple bioactive delivery carriers using novel delivery systems like multiphase hydrogels, nanosystems, microspheres.
- Topical lipid particulate systems for autoimmune disorders like psoriasis, Rheumatoid arthritis
- Designing strategies for protein and peptide delivery.
- Computer aided formulation optimization using Design Expert software.

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## RESEARCH PUBLICATIONS      Total 105+31=136

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|---|-------------------------------------|
| • Research Papers/Review Published            | 105                                 |
| • Papers Presented/ Abstracted in Conferences | more than 50                        |
| • Book Chapters                               | 31                                  |
| • Communicated                                | 05                                  |
| • <b>INVITED TALK</b>                         | <b>35</b>                           |
| • <b>Book</b>                                 | <b>2 (Academic Press, Elsevier)</b> |
|   | <b>1 (in press, CRC press)</b>      |

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## REGISTERED PHARMACIST      Number-8498 (Chhattisgarh)

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## MEMBERSHIP OF PROFESSIONAL BODIES

- Life Member of Indian Pharmacy Graduates Association (LM-2643)
  - Life Member of Association of Pharmacy Teachers of India (CG/LM 028)
  - Life Member of Indian Pharmaceutical Association (CHA/LM/0023)
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## PROFESSIONAL CREDENTIALS

- President, IPGA CG branch 2022-25
- Convener, IPGA women Forum National 2022-25
- Co-convener APTI Women forum 2018-22
- Secretary, Chhattisgarh state branch APTI 2017-22
- Joint-Secretary, IPA, Chhattisgarh State Branch

## Conferences organized

S.No	Position held	Name of conference	Date
1	Chairman Scientific committee	2 <sup>nd</sup> International conference on fostering interdisciplinary research 2019 at AIMST University, Malaysia	14-15 September 2019
2	Chairman Scientific committee	1 <sup>st</sup> International conference on fostering interdisciplinary research 2019 at UIOP, PRSU	24-26 January 2019
2	Organizing secretary	DST and UGC sponsored Treat to Target Approaches for Dermal Disorders: Newer Perspectives and Challenges	24th -26th March 2017
3	Chairman Scientific committee	UGC-SAP Advancements and avenues in the development of cargoes for plant actives	31Jan-2 Feb 2013
4	Organizing secretary	UGC sponsored Chromatographic and spectroscopic analysis for phytoconstituents	14-16 March 2013
5	Chairman Scientific committee	UGC sponsored Recent advances in pharmaceutical research	28-30 January 2011
6	Organizing secretary	Exploring novel drug delivery approaches and emerging trends in pharmaceutical research	13-14 <sup>th</sup> May 2023
7	Chairman Scientific committee	26 <sup>th</sup> APTICON Annual national convention at PSIT Kanpur	2nd-3rd September 2023
8	Convener	IPGA international conference on “Impact of artificial intelligence in revolutionizing pharmaceutical education and research”	18th February 2024

**Patents****Granted-5****Published-2**

1. Indian Design Patent, 2020, Design of emergency anesthetic tray (Design number-333803-001/ date 30.9.2020). Granted
2. Deependra Singh, Satish Patel, Manju Singh. Indian Patent application (23 June 2020) on A scaffold comprising lupeol loaded arginine nanoparticles for wound management (Application number-202021026574) PUBLICATION DATE (U/S 11A) 09/10/2020. Granted
3. Manju Singh, Deependra Singh, Shikha Shrivastava. Australian patent number-2021106679 dated: 17 Nov 2021, Enzyme loaded navigated nanomatrix systems to the inflamed synovial locus for the treatment of Rheumatoid arthritis. Granted
4. Manju Singh, Deependra Singh, Madhulika Pradhan, Krishna Yadav. Australian patent number-2021106678 dated: 1 Dec 2021, A method of preparation of Triamcinolone acetonide encapsulated nanostructured lipid carriers for psoriasis treatment. Granted
5. Deependra Singh Manju Singh, Pranay Wal, Akash Ved. Indian Patent no. 387004.dated on 24/05/23. Autoclave for extraction of volatile oil.
6. Deependra Singh, Manju Singh, Vandana Garg, Preeti Garg, Jyoti, Kiran, Mahima Chauhan. India Patent no. 202311062503 dated on 12/01/24. Antianxiety was demonstrated by quercetin from the stem of acacia catechu wild
7. Deependra Singh, Manju Singh, Vandana Garg, Preeti Garg, Jyoti, Kiran, Mahima Chauhan. India Patent no. 202311062377.dated on 12/01/24 Rutin from the stem of Jasminum mesnyi showed antidepressant activity.

**Google scholar Profile**

Citations	All	Since 2020
Citations	6780	3992
h-index	37	31
i10-index	92	67

**List of Ph.D. Students (Awarded/Registered)**

S. No.	Name of the Ph.D. Scholar	Title of the thesis	Year of registration of the scholar	Year of Ph.D. awarded
1.	Madhulika Pradhan	Development and Characterization of Corticosteroid and keratolytic agent loaded lipid particulate systems for psoriasis	28/07/2011	23/03/2016

2.	Shikha Shrivastava	Designing and Characterization of Targeted Biomimetic Nano-matrix System of Antioxidant Enzymes: SOD For Mitigating Oxidative Stress in Rheumatoid Arthritis	31/07/2013	08/02/2019
3.	Krishna Yadav	Development and Characterization of Dual Drug Loaded Lipid Carrier System(s) for Psoriasis	08/02/2018	10/06/2022
4.	Shradha Devi Dwivedi	Development of glucocorticoid loaded multifunctional nanocarriers to target inflamed synovium for Rheumatoid Arthritis	2019	Submitted
5.	Anita Bhoi	Development of ligand conjugated bioactive loaded metallic nanocarriers targeting oxidative stress-induced inflammation during Rheumatoid arthritis	2019	Submitted
6.	Poulomi Bera	Development of Mucoadhesive Formulation Containing Navigated Nano-liposomes for the Management of Oral Squamous Cell carcinoma	2023	Pursuing
7.	Chanchal Badhai	Course work	2023-till date	Pursuing

## List of Publications

### Book-4

1. Advances and Avenues in the development of novel carriers for Bioactives and biological agents, Elsevier Publications (Academic Press, Elsevier Publications), April 2020. ISBN: 9780128196663.
2. Phytopharmaceuticals and herbal drugs: Prospects and safety issues in the delivery of natural products (Academic Press, Elsevier Publications), July 2023. ISBN: (9780323991254)
3. Deependra Singh, Nagendra Chauhan, Manju Rawat Singh, Medicinal Plant Biotechnology, 1<sup>st</sup> edition, CRC Press (In press) 2024.
4. Manju Rawat Singh, Deependra Singh, Inflammatory bowel disease and its treatment strategies, Lambert Academic Publishing, 1<sup>st</sup> edition, 2012, ISBN: 97836599230.



## Book Chapters

1. Manju Rawat Singh, S. Saraf, S.Saraf, A. Vyas, V. Jain, Singh D. *Zanthoxylum alatum*: A miraculous species from genus *Zanthoxylum*, Ed. VK Gupta, "Natural Products: Research Review - Vol. 2, M/S Daya Publishing House, New Delhi, 2014, 381-397.
2. Singh D, Manju Rawat Singh, S. Saraf, *Withania somnifera*: Rigors and vigors of medicinal plant of towering efficacy, Ed. VK Gupta, "Natural Products: Research Review - Vol. 2, M/S Daya Publishing House, New Delhi, 2014, 399-415.
3. Amber Vyas, Manju Singh, Deependra Singh, Vishal Jain, Bina Gidwani and Nagendra Singh Chauhan, Utilization of Cyclodextrin and its Derivatives in Novel Delivery of Herbal Constituents and Bioactives, *Bioactive Phytochemicals: Perspectives for Modern Medicine*, Vol. 2 Chapter-22,471-498 Daya Publishing House, New Delhi, 2014.
4. Deependra Singh, Madhulika Pradhan, Shikha Shrivastava, S. Narasimha Murthy, Manju Rawat Singh, Skin autoimmune disorders: Lipid biopolymers and colloidal delivery systems for topical delivery. Ed: Alex Alexandru Mihai Grumezescu. Volume X: *NanoBioMaterials in Galenic Formulations and Cosmetics (Applications of NanoBioMaterials)* (ELSEVIER) edited by Alexandru Mihai Grumezescu.
5. Manju Rawat Singh, Satish Patel, Deependra Singh. Natural Polymer based Hydrogels as Scaffolds for Tissue Engineering. Ed: Alex Alexandru Mihai Grumezescu, Volume V: *NanoBioMaterials in Soft Tissue Engineering (Applications of NanoBioMaterials)* (ELSEVIER).
6. Krishna Yadav, Narendra singh Chauhan: swarnlata Sharaf, Deependra Singh, Manju Singh Rawat, Challenges and need of delivery carriers for bioactives and biological agents: an introduction, *Advances and Avenues in the Development of Novel Carriers for Bioactives and Biological Agents* 2020, <https://doi.org/10.1016/B978-0-12-819666-3.00001-8>.
7. Shikha Srivastava, Saurabh Srivastava, Manju Rawat Singh, Deependra Singh, Babu L Tekwani Novel perspectives for delivery of bioactives through blood–brain barrier and treatment of brain diseases , *Advances and Avenues in the Development of Novel Carriers for Bioactives and Biological Agents*, 2020, <https://doi.org/10.1016/B978-0-12-819666-3.00011-0>
8. K.Yadav, M.Singh, V.Singh, N.P.Yadav. Commercial aspects and market potential of novel delivery systems for bioactives and biological agents. *Advances and Avenues in the development of novel carriers for Bioactives and biological agents* Ed: Singh, M., et al. 2020 (Elsevier Publications).
9. Madhulika Pradhan, Deependra Singh, Manju Rawat Singh, Quality by Design and Formulation optimization using statistical tools for safe and efficient bioactive loading. *Advances and Avenues in the development of novel carriers for Bioactives and biological agents* Ed: Singh, M., et al. 2020 (Elsevier Publications).
10. Sunita Minz, Manju Rawat Singh, Deependra Singh, Arun Singh Parihar, and Madhulika Pradhan, Chapter 14: Biotechnology-Based Prodrug Approach for Cell-Specific Targeting: Its Theoretical Basis and Application In: *Recent Advancement in Prodrugs*, (CRC Press)/ Edited by Kamal Shah, Durgesh Nandini Chauhan, Nagendra Singh Chauhan, Pradeep Mishra (ISBN: 978036734-8366).
11. Satish Patel, Pragati, Shradha Devi Dwivedi, K.Yadav, J.R.Kanwar, Manju Rawat Singh, Deependra Singh. Pathogenesis and Molecular Targets in treatment of Diabetic Wounds,

In: Obesity and Diabetes: New Surgical and Nonsurgical Approaches, ED: Joel Faintuch and Salomao Faintuch (Springer nature) 2020.

12. Krishna Yadav, Madhulika Pradhan, Deependra Singh, Manju Rawat Singh, Macrophage associated disorders: pathophysiology, treatment challenges and possible solutions. In: Macrophage Targeted Delivery Systems: Basic concepts & Therapeutic applications. Ed: Y.Pathak, Swati Gupta (springer nature), 2022.
13. Krishna Yadav, Madhulika Pradhan, Deependra Singh, Manju Rawat Singh. Targeting autoimmune disorders through metal nanoformulation in overcoming the fences of conventional treatment approaches, Translational Autoimmunity, 2022, <https://doi.org/10.1016/B978-0-12-824390-9.00017-7>
14. Madhulika Pradhan, A.K.Parihar, Deependra Singh, Manju Rawat Singh, Quality by design and formulation optimization using statistical tools for safe and efficient bioactive loading, Advances and Avenues in the Development of Novel Carriers for Bioactives and Biological Agents, 2022, <https://doi.org/10.1016/B978-0-12-819666-3.00019-5>.
15. Nagendra Singh Chauhan, Manju Rawat Singh, Vikas Sharma, Nisha Yadav, Neelam S. Sangwan & Deependra Singh Traditional Indian Knowledge of Immunity from Plants, Plants and Phytomolecule for Immunomodulation, 2022 [https://doi.org/10.1007/978-981-16-8117-2\\_9](https://doi.org/10.1007/978-981-16-8117-2_9).
16. Manju Rawat Singh, Krishna Yadav, Narayan D. Chaurasiya and Deependra Singh. Immune System and Mechanism of Immunomodulation, Plants and Phytomolecule for Immunomodulation, 2022, [https://doi.org/10.1007/978-981-16-8117-2\\_1](https://doi.org/10.1007/978-981-16-8117-2_1).
17. Krishna Yadav, Deependra Singh, Manju Rawat Singh, Nagendra Singh Chauhan, Sunita Minz, Madhulika Pradhan, In: Natural Products in Vector-Borne Disease Management, Nanobiomaterials as novel modules in the delivery of artemisinin and its derivatives for effective management of malaria, 2023, Pages 447-466 (Elsevier Inc).
18. Shradha Devi Dwivedi, Divya sahu, Lokendra Singh Rathor, Deependra Singh, Manju Rawat Singh, Mineral metabolism and metabolic bone diseases. Editors: Seth K. Amponsah, Emmanuel K. Ofori, Yashwant V. Pathak, In: Current trends in the diagnosis and management of metabolic disorders, 2023.
19. Rajendra Jangdey Manju Rawat Singh, Deependra Singh, Natural hydrogels: synthesis, composites, and prospects in wound management. Ed: Joaquim Miguel Oliveira, Joana Silva-Correia, Rui Reis Hydrogels for Tissue Engineering and Regenerative Medicine: From Fundamentals to Applications (ELSEVIER).
20. Anita Bhoi, Shradha Devi Dwivedi, Deependra Singh, Manju Rawat Singh, S. Keshavkant, Chapter 2 - Worldwide health scenario from the perspective of herbal medicine research, In: Phytopharmaceuticals and herbal drugs: Prospects and safety issues in the delivery of natural products. Ed: Manju R.Singh, Deependra Singh (Academic Publ. ELSEVIER), 2023.
21. Manju Rawat Singh, Kusum Pradhan, Madhulika Pradhan, Krishna Yadav, Nagendra Singh Chauhan, Shradha Devi Dwivedi, Deependra Singh. Chapter 4 - Lipid-based particulate systems for delivery of plant actives and extracts: Extraction, prospective carriers, and safety issues, In: Phytopharmaceuticals and herbal drugs: Prospects and safety issues in the delivery of natural products. Ed: Manju R.Singh, Deependra Singh (Academic Publ. ELSEVIER), 2023.

22. Raman Manoharlal, G.V.S. Saiprasad, Shradha Devi Dwivedi, Manju Rawat Singh, Deependra Singh. Chapter 12 - Commercial aspect and market potential of phytoactive products, In: *Phytopharmaceuticals and herbal drugs: Prospects and safety issues in the delivery of natural products*. Ed: Manju R.Singh, Deependra Singh (Academic Publ. ELSEVIER), 2023.
23. Deependra Singh, Krishna Yadav, Manju Rawat Singh, Narayan D. Chaurasiya, Babu L. Tekwani. Chapter 16 - Novel drug delivery approaches for improving therapeutic applications of berberine and berberine-rich herbal preparations. In: *Phytopharmaceuticals and herbal drugs: Prospects and safety issues in the delivery of natural products*. Ed: Manju R.Singh, Deependra Singh (Academic Publ. ELSEVIER), 2023.
24. Shradha Devi Dwivedi, Divya Sahu, Lokendra Singh Rathor, Deependra Singh, Manju Rawat Singh, *Hydrogel-Based Nanocomposite System: Characterization and Application for Drug Delivery System*, In: *Smart Nanocarrier for Effective Drug Delivery*, 1st Edition, 2024, CRC Press, ISBN9781003438953. 2024
25. Dwivedi, S.D. et al. (2024). Capsaicinoids: Nanoformulations for Improved Therapeutic Applications. In: Swamy, M.K., Kumar, A. (eds) *Capsaicinoids*. Springer, Singapore. [https://doi.org/10.1007/978-981-99-7779-6\\_25](https://doi.org/10.1007/978-981-99-7779-6_25); 978-981-99-7778-9 (ISBN).
26. Shradha Devi Dwivedi, Krishna Yadav, Deependra Singh, and Manju Rawat Singh, *Nanomedicines for Rheumatoid Arthritis*, In: Ed(S) Rishi and Shivani Rai Paliwal, *Nanomedicine, Nanotheranostics and Nanobiotechnology: Fundamentals and Applications*, CRC press. 2024, .DOI: 10.1201/9781003130055-7.
27. Yadu Nandan Dey, Dharmendra Kumar, Manju Rawat Singh, Deependra Singh *Novel treatment in managing autism*. In: *Novel Drug delivery systems in the management of CNS Disorders*. Ed: Chawla et al. 2024
28. Dharmendra Kumar, Manju Rawat Singh, Deependra Singh. *Novel Drug delivery systems in cerebral vascular disorders, transient ischemic attack and stroke interventions*. In: *Novel Drug delivery systems in the management of CNS Disorders*. Ed: Chawla et al. 2024
29. Divya Sahu, Lokendra S.Rathore, Deependra Singh, Manju Rawat Singh. *Treating meningitis through novel drug delivery system*, In: *Novel Drug delivery systems in the management of CNS Disorders*. Ed: Chawla et al. 2024
30. Krishna Yadav, J John Kirubakaran, S Princely Ebenezer Gnanakani, Manju Rawat Singh, Deependra Singh, Rakesh Tirkey, Sunita Minz, Wasim Raza, Madhulika Pradhan, *Regulatory Perspective on Microfluidics in Dermaceuticals*, 2024 CRC Press, ISBN 9781032690926.
31. Ankita Wal, Pranay Wal, Deependra Singh and Manju Rawat Singh, *Nanocarriers in inflammatory bowel disease and colorectal cancer*, In: Lalit Kumar, Yashwant V. Pathak, *Nanocarriers Based Colon Targeting*. <https://doi.org/10.1016/B978-0-443-24806-1.00024-8> Elsevier Inc. 657-687 (2025).

1. Shradha Dwivedi, Deependra Singh, Manju Rawat Singh. Engineering and Optimization of Biogenic Silver Nanoparticles: A Multimodal Approach to Glucocorticoid-Based Rheumatoid Arthritis Management, *BioNanoScience* 2025 (IF-3.0).
2. Nidhi Yadu, Manju Rawat Singh, Deependra Singh, S. Keshavkant. Mechanistic insights of diabetic wound: Healing process, associated pathways and microRNA-based delivery systems, *International journal of pharmaceutics* 2025 (IF-5.3).
3. Shradha Dwivedi, Deependra Singh, Manju Rawat Singh. A Piper nigrum based zinc oxide nanoparticles for anti-arthritis and antioxidant activity, *Journal Applied Pharm Res*,12, 5, 2024, 51-59. DOI: <https://doi.org/10.69857/joapr.v12i5.727>.
4. Lokendra S.Rathore, Divya Sahu, Deependra Singh, Manju Rawat Singh. In Silico Screening of Phytochemicals as Potential Inhibitors of the JAK/STATs Pathway in Psoriasis. *ASSAY and Drug Development Technologies*, 2025 Accepted ADT-2024-087.R2.

## 2024

5. Shikha srivastava\*, Arun KS Parihar, Manju Rawat Singh, Deependra Singh, Nagendra Singh Chauhan, Debapriya Garabadu and Krishna Yadav, Novel Coronavirus: An Overview of the History, Pathophysiology, Diagnosis, and Management of the Pandemic COVID-19 Catastrophe with Special Emphasis on Herbal Treatment Alternatives, *Coronaviruses-Pathogenic Microorganisms*, In Press, Available online 18 July, 2024 Article ID: e180724232017.
6. Shradha Dwivedi, Deependra Singh, Manju Rawat Singh. Revolutionizing Genetic Diagnostics: Innovative Techniques for Inherited Disease Detection, *Gene reports*, 36, 2024, 101963 (IF-1.3) ISSN 2452-0144, <https://doi.org/10.1016/j.genrep.2024.101963>. **IF-1.0**
7. Shradha Dwivedi, Anita Bhoi, KK Sahu Deependra Singh, Manju Rawat Singh. Role and uptake of Metal based nanoconstructs as targeted therapeutic carriers for Rheumatoid Arthritis, *3 Biotech*, 2024 (**IF-2.893**).
8. K Yadav, KK Sahu, Sunita Minz, M Pradhan, D Singh, MR Singh, A Complex Molecular Landscape to drug delivery Concept for Achieving Precise Therapy in Psoriasis, *Medicine in Drug Discovery*, 2024, **IF-6.88**
9. Shradha Devi Dwivedi, Madhu Yadav, Deependra Singh, Manju Rawat Singh, Herbal alternatives for oral health: Mechanistic exploration with their market potential, *Journal of Ravishankar University*, Part – A, 37(1), (2024).
10. Anita Bhoi, Shradha Dwivedi, Deependra Singh, KK Sahu, Manju Rawat Singh. Plant-based approaches for rheumatoid arthritis regulation: Mechanistic insights on pathogenesis, molecular pathways and delivery systems. *Crit Rev Ther Drug Car Sys*, 2024;41(4):39-86. IF-3.06. doi: 10.1615/CritRevTherDrugCarrierSyst.2023048324.
11. Shradha Dwivedi, Anita Bhoi, KK Sahu Deependra Singh, Manju Rawat Singh. Targeting pathways and integrated approaches to treat Rheumatoid Arthritis, *Crit Rev Ther Drug Carrier Syst*. 2024;41(4):87-102. doi: 10.1615. **IF-3.06**.

12. Anita Bhoi, Shradha Dwivedi, Deependra Singh, KK Sahu, Manju Rawat Singh. Mechanistic Insight on Phytomedicine as Nanotherapeutics for Rheumatoid Arthritis Management. 3 Biotech, 2024 (IF-2.893).
13. Bhoi A, Dwivedi SD, Singh D, Keshavkant S, Singh MR. Mechanistic prospective and pharmacological attributes of quercetin in attenuation of different types of arthritis. 3 Biotech. 2024;13(11):362. doi: 10.1007/s13205-023-03787-6.
14. Divya Sahu, Lokendra S.Rathore, Deependra Singh, Manju Rawat Singh. A review on molecular docking as an interpretative tool for molecular targets in disease management. Assay and drug development technologies, Assay Drug Dev Technol. 2024 Jan; 22(1):40-50. doi: 10.1089/adt.2023.060. **IF-1.74.**
15. Shradha Devi Dwivedi, Madhu Yadav, Deependra Singh, Manju Rawat Singh, Herbal alternatives for oral health: Mechanistic exploration with their market potential. Journal of Ravishankar University, Part – A, 37(1), (2024).

## 2023

16. Pranay Wal, Indu Singh, Deependra Singh, Manju Rawat Singh, Ankita Wal, Treatment of Menopausal Symptoms with Herbal Medicines: A Review, Current Women's Health Reviews, IF-0.4 (Accepted).
17. Shradha Dwivedi, R. Shukla, Deependra Singh, Manju Rawat Singh. Mechanistic insight on the Role of iRhom2-TNF- $\alpha$ -BAFF Signaling Pathway in various Autoimmune Disorders, Advances in Biological Regulation, Accepted Dec 2023. IF-3.86.
18. Ankita Sahu; Manju Singh; Vishal Jain; Veenu Joshi; Amber Vyas, Potential of Bioactive Compounds for Atopic Dermatitis" (Paper ID: Pharm-3776136319), Journal of Ravishankar University (PART-B), 2023 (Accepted).
19. Ankita Wal, Manju Singh, Arpit Gupta, Shruti Rathore, Rupali Rupasmita Rout, Pranay Wal, Pumpkin seeds (Cucurbita sp.) As a nutraceutical used in various lifestyle disorders, The Natural Products Journal, Bentham Science, 2023, DOI: 10.2174/2210315513666230516120756.
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## List of Staff Development Programmes/workshops attended

1. UGC sponsored short term course on “workshop on MOOCs, e content development and open educational resources” by HRDC, PRSU, Raipur, 2-7<sup>th</sup> February 2020.
2. UGC sponsored short term course on “workshop on MOOCs, e content development and open educational resources” by HRDC, PRSU, Raipur, 19-24<sup>th</sup> August 2019.
3. UGC sponsored 21 days UGC sponsored Refresher Programme by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 10<sup>th</sup> Feb 2014 to 3<sup>rd</sup> March 2014
4. UGC sponsored 21 days UGC sponsored Refresher course by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 1 Dec 2012 to 21 Dec 2012.
5. UGC sponsored 28 days UGC sponsored Orientation Programme by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 1 Sept 2012 to 28 Sept 2012
6. AICTE sponsored Short Development Programme for pharmacy teachers “Current Trends in Pharmaceutics” at Dr. H.S.Gour vishwavidyalaya, sagar, M.P. from 12 June-25 June 2005.
7. AICTE sponsored Short Development Programme for pharmacy teachers with the theme “Current Trends in Pharmaceutical analytical techniques” at Pt. Ravishankar Shukla University, Raipur, C.G. from 24 Feb-10 March 2006.
8. Seminar of Indian Society of Pharmacognosy on “current trends in Phytopharmaceuticals” 11-12 March 2006.

## Papers Presented / Abstracted In Conferences

1. 4th C.G. Young Scientist Congress, Raipur, Feb28-01Mar. 2006, Biotechnology Ab no. 02.
2. Seminar of Indian Society of Pharmacognosy on "Current advances in Phytopharmaceuticals" at Pt. Ravishankar Shukla University, Raipur, C.G. from 11-12 March 2006. PIOP-15, 31, 39.
3. Poster presented on 2<sup>nd</sup> international symposium on drug discovery and process research. Feb.10-12, 2006, Belgaum, INDIA. Ab No. 143-238.
4. CSPS 9<sup>th</sup> Annual international Symposium on Pharmaceutical Sciences. Canada, May 24-27 2006, ab no.45
5. 11<sup>th</sup> International Congress of Plant Tissue Culture & Biotechnology, Beijing, China, August 13-18, 2006. Ab No. P-1387.
6. World Congress of Pharmacy and Pharmaceutical Sciences, 66<sup>th</sup> International Conference of FIP 2006, Salvador, Bahia, Brazil, August 25-31, 2006.
7. Development and characterization of novel nanocarriers for oral delivery of enzyme, Nanotech insight, 10-17<sup>th</sup> march, 2007, luxor, Egypt.
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10. National seminar on controlled and targeted drug delivery Nanotechnology, 17-18<sup>th</sup> march, 2007, Dr.H.S. Gour Vishwavidyalaya, Sagar (M.P.)
11. UGC sponsored Seminar on "Current advances in novel and cosmetic technology", 19-20 March, 2007, Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.) PNCT 25, 31.
12. AICTE Sponsored Seminar on "Quality perspectives of herbal cosmetics", 8-9<sup>th</sup> Sep, 2007, Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.) QPHC/CR/P-18.
13. 59<sup>th</sup> Indian Pharmaceutical Congress, Varanasi, 20-23 Dec. 2007, Ab No.468.
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17. Recent Advances in Pharmaceutical Technology, Swami Vivekanand College of Pharmacy, Indore, (M.P.) India. 2009.
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19. Preparation and optimization of polar lipid based lipospheres for oral delivery of peptide drugs. FIP Pharmaceutical Sciences 2010 World Congress, 14–18 November 2010 abstract No: 1017.

20. Multiphase hydrogel loaded Dual drug delivery carriers containing antibiotic and debriding enzyme loaded PLGA Microspheres: An effective approach for complete wound healing, 38th Annual Meeting & Exposition of the Controlled Release Society, National Harbor, Maryland, U.S.A., July 30–August 3, 2011, Ab no. 100633
21. Formulation optimization of cetyl alcohol lipospheres of serratiopeptidase using selected variables, 38th Annual Meeting & Exposition of the Controlled Release Society, July 30–August 3, 2011 in National Harbor, Maryland. Abstract ID 100641.
22. Neomycin and Serratiopeptidase Combo Loaded PLGA Microspheres Entrapped in PVA-Gelatin Hydrogel, 11th International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012, Ab no. 104.
23. Novel Topical Formulation of CurcuminLipospheres Containing Combination of Lipids and Natural Polymer for Anti-inflammatory Activity, 11th International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012, Ab no. 105.
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