

# Deependra Singh

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

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## ACADEMIC QUALIFICATION

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|--------------|------------------------------------|------|
| Post- Doc    | Univ. of Mississippi, oxford (USA) | 2014 |
| Ph.D.        | UIOP,Pt. R.S.U. Raipur (C.G.)      | 2008 |
| M.Pharm.     | Dr. H.S. Gour V.V. Sagar, (M.P.)   | 2004 |
| B.Pharm.     | B.R.N.C.P, Mandsour (M.P.)         | 1999 |
| Intermediate | M.P. Board, Bhopal (M.P.)          | 1993 |
| High School  | C.B.S.E Board, New Delhi           | 1991 |

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**Ph.D. Topic “Novel approaches for development of drug delivery system for management of wound”** Different polymer based microspheres were prepared and embedded into hydrogel for co-delivery of antimicrobial agent and debriding enzyme used for complete wound healing. Experiments were designed by using factorial and Box-Behnken design.

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**M. Pharm (Pharmaceutical Biotechnology) Topic “Tissue Culture Studies of *Withania somnifera* L dunal”.** Genetic transformation was done with *Agrobacterium tumifaciens* to increase the production of withanolides. Further suspension cultures were also developed.

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| <b>WORK EXPERIENCE</b> | <b>15 years</b> |
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| <b>RESEARCH EXPERIENCE</b> | <b>12 years</b> |
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| <b>TEACHING EXPERIENCE</b> | <b>16 years</b> |
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| <b>Associate Professor</b>  | January 2021 to till date ( <b>3.9 years</b> ) University Institute of Pharmacy, Pt. RSU, Raipur-492 010, C.G               |
| <b>Assistant Professor</b>  | Nov. 2008 to December 2020 ( <b>12 years</b> ) University Institute of Pharmacy, Pt. RSU, Raipur-492 010, C.G.              |
| <b>As Reader</b>            | May 2008 to October 2008 ( <b>6 months</b> ) Rungta College of Pharmaceutical Sciences and Research, Bhilai, (C.G.)         |
| <b>As Lecturer</b>          | Dec. 2004 to Apr. 2008 ( <b>3.4 years</b> ), Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur- 492 010, C.G |
| <b>As Lecturer</b>          | Mar 2000 to Aug. 2002 ( <b>2.5 Years</b> ), B.R.Nahata College of Pharmacy, Mandsaur (M.P.)                                 |
| <b>Marketing Experience</b> | Dec. 1999 to Feb. 2000 ( <b>Four months</b> ), Management Trainee officer in Universal Medicare Ltd. Mumbai                 |

## **ADMINISTRATIVE EXPERIENCE**

**Head-** Rungta College of Pharmaceutical Sciences and Research, Bhilai, (C.G.) May 08 to Oct 08

**Member-** CPCSEA, Govt. of India

**Member-**Board of studies July 2008-June 2011

**Member-**Departmental Research Committee

**Warden-** University Boys' hostel (AZAD hostel) since June 2010

**Member-**University Anti-ragging committee

## **RESEARCH GUIDANCE**

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

Students enrolled- 03

Ph.D awarded- 3 (March 2016, August 2019, September 2019)

M.Pharm Students Guided- 14

## **FELLOWSHIP / AWARDS**

### **International**

- **DHR-ICMR award for young biomedical scientist 2019** for research at School of medicine, Deakin University, Australia.
- **UGC Raman International fellowship 2014** for post-doctoral research at National centre

for natural product research, University of Mississippi, Olemiss, U.S.A.

- **Among Top 2% scientists** across the world in the field of Pharmacy and Pharmacology in a survey conducted by Stanford University, United States from 2021 to 2024.

### **National**

- **UGC Research award 2012** by University Grants Commission (UGC) for carrying out post-doctoral work on novel delivery systems for complete wound management.
- **Indira Gandhi Sadbhawana award 2014** by International Business council
- **Bharat Shiksha Ratan Award 2012** by Global society for health and educational growth, New Delhi.
- **Best paper award** at 57th Indian Pharmaceutical Congress (IPC) Hyderabad 2005 (As co-author).
- Best Scientific paper presentation award in national conference on innovation in drying technologies for high value products and sustainability, held on 18-19 feb2023 NIT, Rourkela, Odisha, India.
- **AICTE-UKIERI Technical Leadership Development Programme** for the AY 2018-19
- **UGC travel grant** for attending 11<sup>th</sup> International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012.
- **DST travel grant** for attending international conference at AAPS National Biotechnology conference, 21 May-23 May 2012, San Diego, U.S.A.

### **Regional**

- **Eklavya Award 2024** in Global interdisciplinary Conference organized by International council for education , Research and Training India and USA, Ambala Cantt, India
- **Next Gen Pharmacist Award**, in Pharma meet 2020 by CG society of pharmaceutical science, Raipur, 1 March 2020
- **4<sup>th</sup> Young Scientist Award** of Chhattisgarh in medical Sciences including Pharmaceutical Sciences 2006.
- **CCOST travel grant 2011** for attending 11<sup>th</sup> International Hydrocolloids Conference on Biofunctionality and technofunctionality of Hydrocolloids, Purdue University, IN, 14-18 May 2012.
- **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.

- **Best Oral presentation** at national conference on “Current trends in Nanotechnology” at Rungta College of Pharmacy, Bhilai, 30 March, 2007.
- **G.D Rungta Best Poster award** in AICTE Sponsored National Seminar at University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, 8-9 September, 2007.

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## RESEARCH PROJECTS

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### Individual projects

| S. No | Principal Investigator | Title  | Sponsoring Agency   | Amount (Lakhs) | Status    |
|-------|------------------------|--|---|----------------|-----------|
| 1.    | Dr. Deependra Singh    | Upgradation of the Pharmaceutical biotechnology lab for molecular identification of therapeutically effective bioactives | AICTE-MODROB  | 18.50          | Ongoing   |
| 2.    | Dr. Deependra Singh    | Development and Characterization of novel delivery systems for plant actives and extracts                                | Major Research Project. UGC, 2011.                                    | 5.84           | Completed |
| 3.    | Dr. Deependra Singh    | Establishment and optimization of hairy root of <i>Costus speciosus</i> for the production of diosgenin                  | Chhattisgarh Council of Science and Technology, Chhattisgarh In 2011. | 2.0            | Completed |

### Group projects

| S. No | Role        | Proposed research area/  | Sponsoring Agency   | Sanctioned Amount | Ongoing/ completed |
|-------|-------------|--|---|-------------------|--------------------|
| 1     | Core member | One prime area proposed is metabolic wound healing disorders               | DST-FIST  | 35.0lakhs         | Complete           |
| 2     | Core member | Identification, documentation, conservation, isolation, and development of | National centre for natural resources funded by Department of | 10.0 crores       | Complete           |

|    |             |   |                               |            |          |
|----|-------------|---|-------------------------------|------------|----------|
|    |             | delivery systems for treatment of diseases/disorders prevalent in the state of Chhattisgarh   | Science and Technology, India |            |          |
| 3. | Core member | Development of novel delivery systems for plantactives and extracts.  | UGC-SAP.                      | 55.0 Lakh. | Complete |
| 4. | 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 | Ongoing  |
| 5  | Core member | “Development of cost analysis-based tools for enhancing the accessibility of medicine in the tribal population of Chhattisgarh  | IIT Bhilai                    | 35.87 Lakh | Ongoing  |

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## RESEARCH AREA

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- Formulation of multiple bioactive delivery using novel delivery systems like multiphase hydrogels, nanosystems, microspheres.
- Formulation of drugs for improved bioavailability, especially using materials science to design sophisticated drug delivery agents
- Designing strategies for protein and peptide delivery.
- Advanced statistical and mathematical modeling methods developed and applied to interpret clinical data.
- Computer aided formulation optimization using Design Expert software.

- Development of novel systems for delivery of plant actives and extracts.
- Plant Tissue Culture Techniques: Development of cultures, genetic transformation, production of secondary metabolites from plant cell cultures, cultivation in bioreactors.

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## **RESEARCH PUBLICATIONS      Total 119+31=150**

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|---|-----|
| • Research Papers/Review Published            | 112 |
| • Web publications                            | 07  |
| • Papers Presented/ Abstracted in Conferences | 60  |
| • Book Chapters                               | 31  |
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## **EQUIPMENT EXPOSURE**

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- High speed homogenizer (IKA T10 basic)
  - Lyophilizer (Heto Power dry LL 3000)
  - FTIR (Shimadzu8400S)
  - Tablet machine (Shakti Instruments Ltd.)
  - Tablet dissolution apparatus (Electrolab Six bas. Type II).
  - HPLC (Shimadzu LC 10AT VPwith UV detector),
  - UV spectrophotometer (Shimadzu Pharmaspec 1700),
  - Viscometer (Brookfield LVDV-I+)
  - HPTLC (Camag)
  - ELISA, Immunoelectrophoresis, SDS-PAGE
  - Zetasizer NanoZS (Malvern)
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## **REGISTERED PHARMACIST**

**Number-668 (Chhattisgarh)**

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## **MEMBERSHIP OF PROFESSIONAL BODIES**

1. Life Member of Indian Pharmaceutical Association.
  2. Life Member Indian Society of Pharmacognosy.
  3. Life Member of Association of Pharmacy teachers of India (APTI)-CG/LM/017
  4. Member of SPIC-MACAY
  5. Member of IIC-PRSU
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## PROFESSIONAL CREDENTIALS

- Vice-President, Central zone APTI 2022-2027
  - Vice-President, Central zone IPGA 2022-2025
  - President, State Branch Chhattisgarh, 2017-2021
  - Secretary, IPA, Chhattisgarh Local Branch
  - Executive Secretary, IPA, Mandsaur Local Branch. Till 2002.
  - President, Pharmaceutical Society of B.R.Nahata College of Pharmacy, Mandsaur, M.P.
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## INVITED TALK- 55

### As Resource Person

1. The insightful talk on “Role of Natural Polymer based Nanocarriers for management of wounds” on 24<sup>th</sup> June 2024.
2. 50<sup>th</sup> SPSR Webinar on “Integration of interprofessional Education into Pharmacy Curriculum: Challenges and Solutions” organized by Society of pharmaceutical Science and Research on May 26, 2024.
3. Malaviya Mission Teacher Training Program on NEP 2020 Orientation & Sensitization of University Grant Commission organized by Malaviya Mission Teacher Training Center, Pt. Ravishankar Shukla University, Raipur (C.G) From 1<sup>st</sup> Feb to 9<sup>th</sup> Feb 2024.
4. International Conference on “Emerging Trends and Future Prospects of Medical Devices” Organized by Maharana Pratap College of Pharmacy, Kanpur on 3<sup>rd</sup> and 4<sup>th</sup> February 2024.
5. International conference on Intellectual Property Challenges in Pharmaceutical Education: Navigating Patent Law and Ethical Consideration” organized by Council of Science and Technology, Govt. of U.P on 10<sup>th</sup> March 2024.
6. One day seminar on “Integration of interprofessional Education into pharmacy curriculum: Challenges and solutions” organized by the society of Pharmaceutical Sciences and research on May 26, 2024
7. E-Faculty Development Program entitled “Innovation, Learning,& Research in Pharmaceutical Science-Time for Transformation” organized by KBIPER, Gandhi Nagar, Gujarat, India held on 26<sup>th</sup> to 1<sup>st</sup> March 2024
8. Joint International Conference on Pharmaceutical Sciences “The 5<sup>th</sup> Liyang Conference 2023” held on 7-8<sup>th</sup> November 2023
9. One day seminar on “Changing paradigm in pharmaceutical education and research from Indian perspective invited as speaker at Penang, Malaysia held on 4<sup>th</sup> and 5<sup>th</sup> July 2023.
10. One day seminar on “Changing paradigm in pharmaceutical education and research from Indian perspective-NEP2020 invited as speaker at Raghu college of pharmacy in association with IPGA on 23<sup>rd</sup> September 2023.

11. 72<sup>th</sup> Indian pharmaceutical congress, Nagpur sponsored IPC has delivered the lecture as Resource Person at Rashtrasant tukadoji maharaj Nagpur University Held on 21 January 2023.
12. AICTE Sponsored International Conference on Natural products for “Drug Discovery and Development towards healthier life in the 21<sup>st</sup> century: Research, Innovation and Ideas” organized by Modern Institute of Pharmaceutical Sciences, during 12<sup>th</sup> March 2022.
13. National Science Day 2021 theme “Integrated Approaches in Science & Technology for the Sustainable Future” organized by Shri Shankaracharya College of Pharmaceutical Sciences Junwani, Bhilai C.G. during 21<sup>st</sup> Jan. 2022.
14. Chhattisgarh council of science and Technology Sponsored national children science congress 2022 on theme “Understanding Ecosystem for Health and well Beings” invites as Resource Person to evaluate the different projects held on 3<sup>rd</sup> December 2022.
15. Chitkara University Sponsored Faculty Development Program on “Pedagogical challenges in Pharmaceutical Education and Research in Digital Age has delivered the invited talk on Transformation in teaching Learning Methods in digital age held on 19<sup>th</sup> December 2022.
16. UGC sponsored national seminar on Advances in Pharmaceutical Research has delivered a invited talk held at University institute of Pharmacy, Pt.Ravishankar Shukla University, Raipur on 30<sup>th</sup> January 2021.
17. Science and Engineering Research Board, Department of Science & Technology, Govt. of India Sponsored National Conference on “Nanomedicine and Artificial Intelligence: Past, Present & Future organized by School of Pharmacy and Technology management, Shirpur, M.H. during 23<sup>rd</sup>-24<sup>th</sup> July 2021.
18. For sharing his valuable knowledge as a Guest Speaker in Short Term Training Programme on “Future trends in research methodology for drug discovery & development” organized by Columbia Institute of Pharmacy, Tekari, Raipur, (C.G.), from June 7-12, 2021 (Phase III).
19. AICTE sponsored online short-term training program on “computer aided modern techniques for potential teachers amid this covid-19” held at COP-BELA from May 24-29, 2021.
20. 5 days faculty development program on “Capacity building program on teaching, learning and research” at Guru Govind Singh college of pharmacy, 09-13 august, 2021.
21. A National Pharmacy Education Day on “Leveraging Synergism: Industry -Academia Partnership for Implementation of National Education policy 2020” organized by College of Pharmacy, SAM Global University, Bhopal, M.P 2020.
22. For sharing his valuable knowledge as a Guest Speaker on “Novel teaching technologies: The Future E-Learning” organized by B.R.Nahata, College of Pharmacy, Mandsaur and Madhya Pradesh Council of Science and Technology, Bhopal M.P During 01/06/2020 to 05/06/2020.
23. For delivering a lecture in AICTE Sponsored online short term Training Programme entitled “ Integrating Research in Basic Science With Applied Pharmaceutical science”



- organized by Roland Institute of Pharmaceutical Science , Berhampur, Odisha during 10<sup>th</sup> to 15<sup>th</sup> May.2021
24. DST Sponsored Inspire Internship Camp organized by Shirpur Education Societi's H.R. Patel Institute of Pharmaceutical Education and Research Shirpur(Dhule) during 19<sup>th</sup>-23<sup>rd</sup> Nov. 2019.
  25. National Children Science Congress, A Programme of National Council for Science and Technology Communication, Department of Science & Technology, Govt. of India entitled "State level training workshop for District Coordinators and Resource Teachers held at Raipur during 20<sup>th</sup> august 2019.
  26. IJPLS Sponsored International Seminar on "Entrepreneurship Opportunities in Cultivation of Aromatic and Medicinal Plants organized by Faculty of Pharmacy and Department of Agriculture during 11<sup>th</sup> July 2019.
  27. ICMR sponsored national workshop on In-vitro cell-line study for drug discovery and development organized by Columbia institute of pharmacy on 8<sup>th</sup> september 2019.
  28. 68<sup>th</sup> Indian Pharmaceutical Congress Sponsored on theme "Quality Pharmaceuticals and Patient welfare "Presented poster on topic Topical delivery of ursolic acid asiaticoside for enhanced wound healing organized by AU college of Pharmaceutical Science, Andra Pradesh held on 16<sup>th</sup> December 2018.
  29. CBPS, UGC, SERB &CCOST sponsored national seminar on "nanotechnology to translational nanomedicines: Status Assessment, Challenges and New Horizons" presented a poster held on 17 March 2018.
  30. Ist International Conference on community health holistic medicine for quality life : benefitting from developing knowledge. Organized by university sultan zainal abiden trengganu on 7-9 October 2017.
  31. Chhattisgarh youth pharmacist association sponsored national seminar cum workshop on "overview of pharma clinic practice" at JNM Medical Auditorium, Raipur on 27 september 2017.
  32. ICMR Sponsored national seminar on "Prospect and Avenues for in-vitro studies on animal models and human volunteers for the treatment of oral cancer" organized by Shri Rawatpura Sarkar Institute of Pharmacy, Durg on 5<sup>th</sup> April 2017.
  33. CCOST Sponsored National workshop on development of analytical techniques for indigenous drugs of C.G organized by Columbia institute of pharmacy, Raipur, held on 27<sup>th</sup> February 2016.
  34. Life Science Skill Development Training Workshop on "Entrepreneur Development in Herbal Drug Industry (Characterization, Formulation and Analysis) organized by Skill Development Cell & School of Studies in Life Science, Guru Ghasidas Vishwavidyalaya, Bilaspur C.G. during 20<sup>th</sup>,-22<sup>nd</sup> October 2016.
  35. Chhattisgarh Council of Science & Technology, Raipur Sponsored National Seminar on "Traditional Knowledge and Biodiversity of Chhattisgarh" organized by Royal College of Pharmacy Raipur C.G. during 4<sup>th</sup>-5<sup>th</sup> March 2016.

36. Chhattisgarh Council of Science & Technology, Raipur Sponsored National Seminar on “Bridging gap between Academic and Pharmaceutical Industries” organized by Columbia Institute of Pharmacy, Tekari, Raipur C.G. during 5<sup>th</sup>-6<sup>th</sup> March 2016.
37. Chhattisgarh Council of Science & Technology Sponsored National Workshop on “Practical Application & Validation of Analytical Instruments” organized by Shri Shankaracharya group of Institutions, Faculty of Pharmaceutical Sciences, Junwani, Bhilai C.G. during 18<sup>th</sup> Feb. 2016.
38. ND Chaurasiya, D Singh, SJ Cutler, LA Walker, B Tekwani. Berberine Selectively Inhibits Human Monoamine Oxidase B: Kinetics And Mechanism Of Inhibition. *Planta Medica*. 2016, 82 (05), PB11.
39. Novel drug delivery approaches for improving therapeutic applications of berberine, , 2015, 81 (05), PP15.
40. Chhattisgarh Council of Science & Technology (CGCOST) Sponsored National Seminar entitled “Recent Advances in Novel Drug Delivery Systems for Herbal Formulationals” organized by School of Pharmacy, Chouksey Engineering College, Bilaspur C.G. during 26<sup>th</sup> to 27<sup>th</sup> September 2014.
41. Chhattisgarh Council of Science & Technology (CGCOST) Sponsored National Seminar on “Pharma-Industry Institute Interaction for Development of Chhattisgarh” organized by Shri Shankaracharya Technical Campus, Shri Shankaracharya group of Institutions, Faculty of Pharmaceutical Sciences, Bhilai C.G. during 8<sup>th</sup> Feb. 2014.
42. AICTE Sponsored National seminar on “Trade, intellectual property rights and Public health” has delivered the invited talk held on 14<sup>th</sup> March 2014.
43. DST Sponsored national seminar on Investigation of ethano-medicinal plants used by ethnic group of Chhattisgarh organized by Columbia institute of pharmacy, Raipur held on 20<sup>th</sup> october 2013.
44. UGC Sponsored national workshop on Chromatographic and Spectroscopic analysis for Phytoconstituents organized by University Institute of Pharmacy, Pt.Ravishankar Shukla University, Raipur held on 16<sup>th</sup> March 2013.
45. Chhattisgarh Council of Science & Technology (CGCOST) Sponsored National Seminar on Rules and Precincts of IPR and Regulatory affairs for Indian Drugs” organized by Columbia Institute of Pharmacy, Raipur during 29<sup>th</sup>-30<sup>th</sup> September 2013.
46. APTI State branch Chhattisgarh in Association with Pt.Ravishankar Shukla University, Raipur a workshop on “Diagnosis of Disease and Molecular Evaluation” has delivered a invited Talk held on 13 November 2013.
47. AICTE Sponsored Staff Development Program on Emergings Trends in herbal and novel drug delivery system organized by Gondia education Society Manoharbhair institute of pharmacy held on 4<sup>th</sup> June 2012.
48. AICTE Sponsored national seminar on Phytomedicine avenues and challenges in formulation development organized by Gondia education Society Manoharbhair institute of pharmacy on 7<sup>th</sup> January 2012.

49. Pharmanext (A Phrama Magazine for Generation Next) and Medixfora (A Forum for Healthcare Professionals) organized National Conference entitled “Impact of Nanotechnology on Drug Discovery & Development held on Koti Resort, Shimla, H.P. during 25<sup>th</sup> to 27<sup>th</sup> June 2011.
50. P.C.I Sponsored one day Orientation Programme entitled “Advancement in Pharmaceutical Research & Technillogy Control Techniques” organized by Columbia College of Pharmacy, Tekari, Raipur during 24<sup>th</sup> Feb. 2008.
51. U.G.C. Sponsored Seminar on “Recent Advances in Novel and Cosmetic Technology” organized by Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur during 19<sup>th</sup> to 20<sup>th</sup> March 2007.
52. AICTE Sponsored National Seminar on Quality Perspectives of Herbal Cosmetics” organized by Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur during 8<sup>th</sup> to 9<sup>th</sup> September 2007.
53. A national seminar on “Emerging Horizons of Biotechnology” organized by school of biotechnology, Guru Ghasidas University, Bilaspur on 12<sup>th</sup> November 2006.
54. P.C.I. organized National Workshop on “Health Education” organized by B.R. Nahata College of Pharmacy, Mandsaur, M.P. during 28<sup>th</sup> to 29<sup>th</sup> March 2000.

#### PERSONAL INFORMATION

**Father's Name** Late Mr. R .A. Singh  
**Mother's Name** Mrs. Asha Singh  
**Spouse Name** Dr. Manju Rawat Singh  
**Date of Birth** 20<sup>th</sup> February 1976

#### Conferences organized

| S.No | Position held         | Name of conference  | Date                         |
|------|-----------------------|---|------------------------------|
| 1    | Organizing secretary  | 2 <sup>nd</sup> International conference on fostering interdisciplinary research 2019 at AIMST University, Malaysia | 14-15 September 2019         |
| 2    | Organizing secretary  | 1 <sup>st</sup> International conference on fostering interdisciplinary research 2019 at UIOP, PRSU                 | 24-26 January 2019           |
| 3    | Organizing secretary  | UGC-SAP Advancements and avenues in the development of cargoes for plant actives                                    | 31Jan-2 Feb 2013             |
| 5    | Organizing secretary  | UGC sponsored Recent advances in pharmaceutical research  | 28-30 January 2011           |
| 6    | Chairman-Registration | Exploring novel drug delivery approaches and emerging trends in pharmaceutical research                             | 13-14 <sup>th</sup> May 2023 |

|          |                     |   |                        |
|----------|---------------------|---|------------------------|
| <b>7</b> | <b>Chairman LOC</b> | 26 <sup>th</sup> APTICON Annual national convention at PSIT Kanpur  | 2nd-3rd September 2023 |
| <b>8</b> | <b>Chairman LOC</b> | 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 mesnylhance showed antidepressant activity.

## Google scholar Profile

| <b>Citations</b> | <b>All</b> | <b>Since 2020</b> |
|------------------|------------|-------------------|
| Citations        | 7912       | 4357              |
| h-index          | 34         | 31                |
| i10-index        | 122        | 72                |

## 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), January 2023. ISBN: (9780323991254)
3. Deependra Singh, Nagendra Chauhan, Manju Rawat Singh, Medicinal Plant Biotechnology, 1<sup>st</sup> edition, august 2023((In press).
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-30

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).

## Research Publications

### 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-arthritic 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 Drug Dev Technol, 2025 Jan 8. doi: 10.1089/adt.2024.087.

### 2024

5. Divya soni, Summit Jamwal, Rakesh Chawla, sachin Kumar Singh, Deependra Singh Nutraceuticals Unveiled a Multifaceted Neuroprotective Mechanisms for Parkinson's Disease: Elixir for the Brain. Food Reviews International, 2024, 40(4):1-24. **IF-5.14**.
6. Abhishek Yadav, Vikas Jhawar, Rahul Pratap Singh, Sunita Chauhan, Rohit Dutt, Rajesh, D Singh, Development and In vitro Assessment of Topical Microemulsion Based Pluronic-Lecithin Organogel for the Management of Arthritic Pain, Micro and Nano system, 36-45(10); Volume 16. 2024. **IF- 4.5**.
7. Abhishek Yadav, Vikas Jhawar, Rahul Pratap Singh, Sunita Chauhan, Rohit Dutt, Rajesh, D Singh Technical Considerations, Applications, and Benefits of Organogels in Topical Drug Delivery Systems, Recent advances in drug delivery and formulations, 18(1):12-20; 2024 (**IF-1.72**)



8. 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.
9. Shradha Dwivedi, Sahin Dev Yadav, Deependra Singh, Manju Rawat Singh. Revolutionizing Genetic Diagnostics: Innovative Techniques for Inherited Disease Detection, *Gene reports*, 2024 (IF-1.3)
10. 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).
11. 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
12. 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).
13. 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*, IF-3.06.
14. Shradha Dwivedi, Anita Bhoi, KK Sahu Deependra Singh, Manju Rawat Singh. Targeting pathways and integrated approaches to treat Rheumatoid Arthritis, *Crit Rev Ther Drug Car Sys*, IF-3.06.
15. 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).
16. 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*, IF-1.74
17. 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

18. Suraj Kumar Singh, Shradha Devi Dwivedi, Krishna Yadav, Kamal Shah, Nagendra Singh Chauhan, Madhulika Pradhan, Manju Rawat Singh, Deependra Singh. Novel Biotherapeutics Targeting Biomolecular and Cellular Approaches in Diabetic Wound Healing. *Biomedicines*, 2023, 11(2):613. doi: 10.3390/biomedicines11020613. IF-4.60

19. KK Sahu, M Pradhan, D Singh, MR Singh, K Yadav, Non-viral nucleic acid delivery approach: A boon for state-of-the-art gene delivery, *Journal of Drug Delivery Science and Technology*, 2023, 104152, IF-5.06.
20. Krishna Yadav, Deependra Singh, Manju Rawat Singh , Sunita Minz, Preclinical study models of psoriasis: State-of-the-art techniques for testing pharmaceutical products in animal and nonanimal models. *Int Immunopharmacol*, 117:109945. doi: 10.1016/j.intimp.2023.109945. IF-5.714.
21. Abhishek Tiwari, Varsha Tiwari, Ajay Sharma, Deependra Singh, Manju Singh Rawat, Tarun Virmani, Reshu Virmani, Girish Kumar, Manish Kumar, Abdulsalam Alhalmi, Omar M. Noman, Ramzi A Mothana, Mohammad Alali. Tanshinone-I for the treatment of uterine fibroids: molecular docking, simulation, and density functional theory investigations, *Saudi Pharmaceutical Journal*, Available online 8 May 2023.
22. 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).

## 2022

23. Krishna Yadav, Deependra Kumar Singh, Manju Rawat Singh, Madhulika Pradhan, Nano-constructs targeting the primary cellular energy source of cancer cells for modulating tumor progression, *OpenNano*, 2022
24. Krishna Yadav, Deependra Singh, Manju Rawat Singh, Ajazuddin, Amit Alexander, Sunita Minz, Madhulika Pradhan, Kamal Shah, Nagendra Singh Chauhan, Insight and Perspective on Omicron's Development, Behaviour, and Vaccine Breakthrough: Next Sequelae of COVID-19, *J Young Pharm*, 2022; 14(3) : 283-288.
25. Yadav N, Singh D, Rawat M, Sangwan N. Novel archetype in cancer therapeutics: exploring prospective of phytonanocarriers. *3 Biotech*. 2022 Nov;12(11):324.
26. Krishna Yadav, Deependra Singh, Manju Rawat Singh, Sunita Minz, Kantrol Sahu, Monika Kaurav, Madhulika Pradhan, Dermal nanomedicine: Uncovering the ability of nucleic acid to alleviate autoimmune and other related skin disorders, *Journal of Drug Delivery Science and Technology*, 2022,103-437.
27. Ram Kumar Sahu and Jiyauddin Khan Rajendra Jangde, Gamal Osman Elhassan, Sulekha Khute, Deependra Singh, Manju Singh, Hesperidin-Loaded Lipid Polymer Hybrid Nanoparticles for Topical Delivery of Bioactive Drugs, *Pharmaceuticals*, 2022, 15(211), 2-17.

## 2021

28. Madhulika Pradhan, Krishna Yadav, Deependra Singh, Manju Singh, COVID-19: clinical presentation and detection methods, *Journal of Immunoassay and Immunochemistry*, epub, 2021. <https://doi.org/10.1080/15321819.2021.1951291>. IF-0.87
29. Krishna Yadav, Deependra Singh, Manju Rawat Singh, Novel archetype in psoriasis management bridging molecular dynamics in exploring novel therapies, *Eur J Pharmacol*. 2021 Jun 9; 907:174254. doi: 10.1016/j.ejphar.2021.174254. IF-3.26
30. Krishna Yadav, Deependra Singh, Manju Singh. Nanovesicles delivery approach for targeting steroid mediated mechanism of antipsoriatic therapeutics. *Journal of Drug*

Delivery Science and Technology, Volume 65, October 2021, 102688, IF-2.73, <https://doi.org/10.1016/j.jddst.2021.102688>

31. Madhulika Pradhan, Krishna Yadav, Deependra Singh, Manju Singh. Topical delivery of fluocinolone acetonide integrated NLCs and salicylic acid enriched gel: A potential and synergistic approach in the management of psoriasis, *Journal of Drug Delivery Science and Technology*, Volume 61, February 2021, 102282, <https://doi.org/10.1016/j.jddst.2020.102282>. IF-2.73
32. Yadav K, Singh D, Singh MR., Development and Characterization of Corticosteroid loaded Lipid carrier system for Psoriasis, *Research Journal of Pharmacy and Technology* 14 (2), 966-970.
33. Yadav K, Soni A, Singh D, Singh MR. Polymers in topical delivery of anti-psoriatic medications and other topical agents in overcoming the barriers of conventional treatment strategies. *Prog Biomater.* 2021;10(1):1-17. doi:10.1007/s40204-021-00154-.

## 2020

34. Krishna Yadav, Madhulika Pradhan, Deependra Singh, Manju Singh, Multifaceted targeting of cationic liposomes via co-delivery of anti-IL-17 siRNA and corticosteroid for topical treatment of psoriasis, *medical hypothesis*, 2020 *Med Hypotheses*. 2020 Dec; 145:110322. doi: 10.1016/j.mehy.2020.110322. Epub 2020 Oct 2. PMID: 33086162. IF-2.73
35. Madhulika Pradhan, Amit Alexander, Manju Rawat Singh, Deependra Singh, Swarnlata Saraf, Shailendra Saraf, Krishna Yadav, Ajazuddin. Statistically optimized calcipotriol fused nanostructured lipid carriers for effectual topical treatment of psoriasis, *Journal of Drug Delivery Science and Technology* (epub online) 61, 2021, 102168, ISSN 1773-2247, <https://doi.org/10.1016/j.jddst.2020.102168>. IF-2.73

## 2019

36. Deependra Singh, Arun KS Parihar, Shikha Srivastava, Prakriti Diwan, Manju R. Singh, Scleroderma: An insight into causes, progression and treatment strategies using novel delivery systems, *Pathophysiology*, 26, 2019, 103-114. IF-0.43
37. Satish Patel Shikha Srivastava Manju Rawat Singh Deependra Singh, Mechanistic insight into diabetic wounds: Pathogenesis, molecular targets and treatment strategies to pace wound healing, *Biomedicine and pharmacotherapy*, 2019, <https://doi.org/10.1016/j.biopha.2019.108615>. IF:7.419

## 2018

38. M.Pradhan, Manju Rawat Singh, Singh D, S.Saraf, Ajazudin. Understanding the prospective of nano-formulations towards the treatment of psoriasis. *Biomedicine & Pharmacotherapy*, 2018, 107, 447-463. IF-7.419.
39. R Jangde, S Srivastava, MR Singh, D Singh, In vitro and In vivo characterization of quercetin loaded multiphase hydrogel for wound healing application, *International journal of biological macromolecules* 115, 1211-1217. I.F-8.025
40. M.Pradhan, Singh D, Manju Rawat Singh. Perspectives of Lipid-Based Drug Carrier Systems for Transdermal Delivery. *Crit Rev Ther Drug car sys.* 2018, 35, 4, IF-3.097

41. Shikha Srivastava, Deependra Singh, Satish Patel, Manju R. Singh, Folate-Conjugated Superoxide Dismutase Adsorbed Over Antioxidant Mimicking Nanomatrix Frameworks for Treatment of Rheumatoid Arthritis, *Journal of Pharmaceutical Sciences*, 107, 6, 2018, 1530-1539. I.F. 3.784
42. K.Yadav, Singh D, Manju Rawat Singh, Protein biomarker for psoriasis: A systematic review on their role in the pathomechanism, diagnosis, potential targets and treatment of psoriasis, *International Journal of biological macromolecules*, 2018, epub 11July 2018. I.F.8.025
43. Krishna Yadav, Jyoti Pawar, Deependra Singh, Manju Rawat Singh, Promising Phytoactives Candidates for Efficacious Treatment of Psoriasis and Other Skin Disorders, *Journal of Ravishankar University (Part-B)*, 31, 1, 10-22. IF- 0.2.

## 2017

44. Satish Patel, Shikha Shrivastava, Deependra Singh, Manju Rawat Singh. Preparation and optimization of chitosan-gelatin films for sustained delivery of lupeol for wound healing. *International Journal of Biological Macromolecules* [14 Oct 2017, 107(Pt B):1888-1897], I.F.8.025.
45. Satish Patel, Deependra Singh, Shikha Shrivastava, Manju Rawat Singh Kamal Shah, Durgesh Nandini Chauhan, Nagendra S Chauhan. Nanoparticles as a Platform for Antimicrobial. *Advances in Pharmacology and Pharmacy* 5(3): 31-43, 2017.IF-0232
46. Madhulika Pradhan, Deependra Singh, Manju Rawat Singh, Fabrication, optimization and characterization of Triamcinolone acetone loaded nanostructured lipid carriers for topical treatment of psoriasis: Application of Box Behnken design, in vitro and ex vivo studies, In *Journal of Drug Delivery Science and Technology*, Volume 41, 2017, Pages 325-333, ISSN 1773-2247, <https://doi.org/10.1016/j.jddst.2017.07.024>. IF-5.062.
47. Shikha Srivastava, Deependra Singh, Satish Patel, Manju R. Singh, Treatment of rheumatoid arthritis by targeting macrophages through folic acid tailored superoxide dismutase and serratiopeptidase, In *Journal of Drug Delivery Science and Technology*, Volume 41, 2017, Pages 431-435, ISSN 1773-2247, <https://doi.org/10.1016/j.jddst.2017.09.002>. IF-5.062.
48. R.Panik, Manju Rawat Singh, Deependra Singh. Indian drugs. Influence of selected variables on fabrication of mupirocin loaded PLGA nanocarriers epub. *Indian Drugs*, 2017, 54 (05) 67-71.
49. Shikha Shrivastava, Satish Patel, Deependra Singh, Manju Rawat Singh. Role of Enzymatic free radical scavengers in management of Oxidative stress and Autoimmune Disorders, *International Journal of Biological Macromolecules* 101 (2017) 502–517, I.F.8.62.
50. Shikha Shrivastava, Satish Patel, Deependra Singh, Manju Rawat Singh. Rationalized insights on cause of RA in elderly and intended women with special emphasis on its treatment strategies. *Crit Rev Ther Drug carr sys*. epub 34(2), 97–147 (2017) IF-3.097.
51. Shikha Shrivastava, Satish Patel, Deependra Singh, Manju Rawat Singh. Novel carters and targeted approaches: way out for Rheumatoid Arthritis quandrum. *Journal of Drug Delivery Science and Technology* 40 (2017) 125-135. IF-5.062
52. Arun S. Parihar, Shikha Shrivastava, Satish Patel, Manju Rawat Singh, Deependra Singh. Novel catalase loaded nanocores for the treatment of Inflammatory Bowel Diseases. *Artificial cell, Nanomedicine and Biotechnology*, epub: 2017, IF-6.355.

## 2016

53. Jangde Rajendra, Panik Rajnikant, Singh Manju, Singh Deependra. Understanding the Role of Response Surface Methodology in Development of Quercetin Loaded Phytocomplex for Wound Healing. *Asian Journal of Pharmaceutics* • Oct-Dec 2016. IF-0.460
54. Deependra Singh, Satpal Singh, Jageshwari Sahu, Shikha Srivastava, ManjuRawat Singh, Ceramic nanoparticles: Recompense, cellular uptake and toxicity concerns, *Artificial Cells, Nanotechnology and Biotechnology*, 2016, 44 (1), 401-409. **IF-6.355**
55. M.Pradhan, **Singh D**, Manju Rawat Singh, Influence of selected variables on fabrication of Triamcinolone acetonide loaded solid lipid nanoparticles for topical treatment of dermal disorders, *Artificial Cells, Nanotechnology and Biotechnology*, 2016, 44 (1), 392-400. **IF-6.355**
56. S Srivastava, S Patel, SJ Daharwal, D Singh, M Singh. Rheumatoid Arthritis: An Autoimmune Disease Prevalent in Females, *Research Journal of Pharmacy and Technology*, 2016, 9 (2), 170-172. IF-
57. Jangde R, Singh D. Preparation and optimization of quercetin-loaded liposomes for wound healing, using response surface methodology. *Artif Cells Nanomed Biotechnol*. 2016; 44(2):635-41. doi: 10.3109/21691401.2014.975238. Taylor and Francis, Nov 6. IF-6.355

## 2015

58. Manju Rawat Singh, M. Pradhan, M. Nag, D.Singh. Vesicular carriers for transcutaneous delivery of bioactives, *Artificial Cells, Nanotechnology and Biotechnology*, 2014, Feb 25 Epub **IF-6.355**
59. JR Kanwar, K Roy, Y Patel, SF Zhou, MR Singh, D Singh. Multifunctional iron bound lactoferrin and nanomedicinal approaches to enhance its bioactive functions. *Molecules*, 2015, 20 (6), 9703-9731. **IF-4.92**
60. Pradhan M, Singh D, Murthy SN, Singh MR. Design, characterization and skin permeating potential of Fluocinolone acetonide loaded nanostructured lipid carriers for topical treatment of psoriasis. *Steroids*. 2015 Sep; 101:56-63. doi: 10.1016/j.steroids.2015.05.012. **IF- 2.76**
61. M.Pradhan, Singh D, Manju Rawat Singh, Development characterization and skin permeating potential of lipid based novel delivery system for topical treatment of psoriasis, *Chemistry and physics of lipids*, 2015, 186, 9-16. IF-3.57
62. Deependra Singh, Shikha Srivastava, Madhulika Pradhan and Manju Rawat Singh, Treatment strategies for Inflammatory Bowel Disease: pathogenesis, causative factors, issues, drugs and delivery approaches, *Crit Rev Ther Drug Del Sys*, 2015, 32 (3). IF-3.97
63. D Singh, M Singh, S Saraf, BL Tekwani. Novel drug delivery approaches for improving therapeutic applications of berberine, *Planta Medica*, 2015, 81 (05), PP152015. IF-3.007

## 2014

64. R.K. Jangde, M. Singh, D. Singh\*, Development and Determination of Rutin by Spectrofluorimetric Method, *Biomedical & Pharmacology Journal*, 2014, Vol. 7(2), 681-686.
65. Jangde R. K, Srivastava S, Singh M, Singh D “Development of A Spectrofluorimetric Method For The Determination of Quercetin”, *Asian Journal of Traditional Medicines*, 2014, 9(6), 20-26.

66. Kurrey A, Suresh PK, Singh MR. Hollow microspheres as a drug carrier: An overview of fabrication and in vivo characterization techniques. *Chron Young Sci* 2014;5:1-10.

## 2013

67. M.Pradhan, Singh D, Manju Rawat Singh\*, Novel colloidal carriers for psoriasis: current issues, mechanistic insight and novel delivery approaches, *J. Control. Rel.* 2013, 170 (3), 380-395.IF-11.467
68. Singh D, P.Dubey, M.Pradhan, Manju Rawat Singh\*. Nanoceramic carriers: versatile nanocarriers for protein and peptides. *Expert opinion in drug delivery*, 2013, 10(2):241-59. IF-8.129
69. Manju Rawat Singh, S. Saraf, A. Vyas, V. Jain, Singh D. Innovative approaches in Wound healing: Trajectory and advances, *Artificial Cells, Blood Substitutes, and Biotechnology: An International Journal*, 2013, epub. Informa healthcare.IF-6.355
70. Manju R Singh, Mukesh K Nag, Satish Patel, S. J. Daharwal, Deependra Singh\*, Novel Approaches for Dermal and Transdermal Delivery of Herbal Drugs, *Research J. Pharmacognosy and Phytochemistry* 2013; 5(6): 271-279
71. Mukesh K. Nag, Satish Patel, RajnikantPanik, ShikhaShrivastava, Sanjay J. Daharwal, Manju R. Singh, Deependra Singh, Lung Cancer Targeting: A Review, *Research J. Pharm. and Tech.* 6(11): 2013, 1302-1306.
72. Deependra Singh, Mukesh K. Nag, Satish Patel, Madhulika Pradhan, Shikha Shrivastava, S.J. Daharwal, Manju R. Singh, Treatment Strategies in Burn Wounds: AnOverview. *Research J. Pharmacology and Pharmacodynamics*; 5(6): 2013; 341-352.
73. Satish Patel, Mukesh K. Nag, S.J. Daharwal, Manju R. Singh, Deependra Singh, Plant Toxins: An Overview, *Research Journal of Pharmacology and Pharmacodynamics (RJPPD)*. 5(5), 2013, 283-288.
74. Mukesh K. Nag, Satish Patel, ShikhaShrivastav, S.J. Daharwal, Manju R. Singh, Deependra Singh, An Overview of Diabetes mellitus with Emphasis on Non Invasive Techniques of Insulin Delivery, *Research Journal of Science and Technology* 5(4): Oct-Dec,2013.IF-6.115

## 2012

75. A.Vyas, S.K.Das, D. Singh, B.Gidwani, V.Jain, Manju Singh. Recent nanoparticulate approaches of drug delivery for skin cancer. *Trends in applied science research*, 2012, 7:620-635. IF-0.3
76. Manju Rawat Singh, Pradhan K, Singh D. Lipid Matrix Systems with emphasis on Lipid microspheres: Potent Carriers for Transcutaneous Delivery of Bioactives. *Curr Drug Deliv.* 2012, 9(3):243-54.04. IF- 3.758
77. D. Singh, Manju Rawat Singh. Development of antibiotic and debriding enzyme loaded PLGA microspheres entrapped in PVA-Gelatin hydrogel for complete wound management, *Artificial Cells, Blood Substitutes, and Biotechnology: An International Journal*, 2012, 40(5), 345-53.IF-6.355

## 2011

78. D. Singh and Manju Singh. Development of delivery cargoes for debriding enzymes effective in wound healing. *Trends in applied science research*, 6(2), 102-107. IF-0.3

79. M Singh, D. Singh, S.Saraf. Influence of selected formulation variables on the preparation of peptide loaded lipospheres, Trends in medical research, 2011, 6 (8), 863-876. IF- 0.2
80. M Singh, D. Singh, S.Saraf. Formulation optimization of controlled delivery system for antihypertensive peptide using response surface methodology, American Journal Drug Discov. Dev., 2011, 1 (3), 174-187. IF- 0.786
81. Junaid Khan, Azajuddin, A. Vyas, M Singh, D. Singh. Acute and chronic effect of Hibiscus rosasinensis flower extract on anxiety induced exploratory and locomotor activity in mice. J. Plant Sciences, 2011, 6(2), 102-107. IF-5.363
82. V. Jain A. Vyas, D. Singh, M. Singh, S.S. Shukla, R. Pandey, Saraf Swarnlata and S. Saraf, TLC Densitometric Method for the Estimation of piperine in Ayurvedic formulation TrikatuChurna, Oriental Journal of Chemistry 2011, Vol. 27, No. (1): Pg. 301-304(Thomson Reuter).
83. A. Vyas, S. S. Shukla, R. Patel, R. Pandey, V. Jain, D. Singh and B.P. Nagori, Development and Validation of Spectrophotometric Method for Estimation of Cephalexin in Bulk and Tablet Dosage Forms, Oriental Journal of Chemistry, 2011, Vol. 27, No. (1): Pg. 359-362 (Thomson Reuter).

## 2010

84. D. Singh, Manju Singh, Swarnlata Saraf , V.K. Dixit and S. Saraf, Optimization and Characterization of Gentamicin Loaded Chitosan Microspheres for Effective Wound Healing, Indian J. Pharm. Educ. Res. 2010; 44(2): 171-182.
85. D. Singh, Manju Singh, Swarnlata Saraf , V.K. Dixit and S. Saraf, Formulation Optimization of Metronidazole Loaded Chitosan Microspheres for Wound Management by 3-Factor, 3-Level Box-Behnken Design. Micro and Nanosystems, 2010;2(2): 70-77. (Cited by in Scopus 2 times).
86. D. Singh, M. Singh, VK Dixit, S.Saraf, S.Saraf. Effect of formulation variables on preparation of GM loaded PLGA microspheres, Indian drugs. 2010, 47:12; 35-44.

## 2009

87. **D. Singh**, VK Dixit, S.Saraf, S.Saraf. Formulation optimization of serratiopeptidase loaded PLGA microspheres using selected variables. PDA Journal of Pharmaceutical Science and Technology, 2009; 63(2): 103-112. IF-0.68
88. M Rawat, **D. Singh**, S.Saraf, S.Saraf. Development and in vitro evaluation of polar lipid based lipospheres for oral delivery of peptide drugs, International Journal of Drug Delivery. 2009;1(1):15-26. IF-0.158
89. Khan Juned, Ajazuddin, Daharwal SJ, Singh Deependra\*. A Study of Possible Role of Contact Period on the Efficacy of Antidandruff Shampoo. A Research Journal of Pharmaceutical Dosage Forms and Technology. 2009(1), 38-40.

## 2008

90. M Rawat, **D. Singh**, S.Saraf, S.Saraf. Lipid carriers: A versatile delivery vehicle for Proteins and Peptides. YakugakuZasshi (The Pharmaceutical journal of Japan). 2008; 128(2): 269-280. **(Impact Factor-0.427) (Cited by in Scopus 28 times). IF- 0.27**
91. **D. Singh**, M.Rawat, S.J. Daharwal. Hydrogels- A Potent Carter in Wound Healing. Research Journal of Pharmacy and Technology. 2008; 1(1):6-13. IF-
92. M.Rawat, S.J. Daharwal, **D. Singh**. An Overview of Miracle Enzyme- Serratiopeptidase, Research Journal of Pharmacy and Technology. 2008;1(3):124-131.

93. M. Rawat, **D. Singh**, S. Saraf, S. Saraf. Development and in vitro evaluation of alginate gel encapsulated chitosan coated ceramic nanocores for oral delivery of enzyme, Drug Development and Industrial Pharmacy. 2008; 34(2): 181-188. (**Impact Factor-1.50**) (**Cited by in Scopus 9 times**). **IF- 3.727**
94. RB Saudagar, M. Rawat, **D. Singh**, S.Saraf, S.Saraf. Development and Validation of Derivative Spectrophotometric Method for Determination of Serratiopeptidase in Pharmaceutical Formulation. Oriental Journal of Chemistry. 2008; 23(2):113-114. (**Cited by in Scopus 6 times**). **IF-**
95. **D. Singh**, VK Dixit, S.Saraf, S.Saraf. Optimization of gentamicin loaded Eudragit RS100 microspheres using a factorial design study. Biol. Pharm. Bull. 2008; 31(4): 662-667. (**Impact Factor-1.81**) (**Cited by in Scopus 17 times**). **IF-2.264**
96. A.Baldi, **D. Singh**, V.K.Dixit. Dual Elicitation for Improved Production of Withaferin A by Cell Suspension Cultures of Withania somnifera, Appl Biochem Biotechnol. 2008, 151 (2-3), 556-564. (DOI 10.1007/s12010-008-8231-2). (**Cited by in Scopus 7 times**). **IF-3.094**

## 2007

97. M Rawat, **D. Singh**, S.Saraf, S.Saraf. Archaeosomes- Archaeobacteria derived novel liposomes. Indian Drugs, 2007; 44(7): 497-503.
98. M .Rawat, **D. Singh**, S.Saraf, S.Saraf. An overview of biochemical aspects of DNA vaccines, Asian Journal of Biochemistry. 2007; 2(4): 208-223. (**Cited by in Scopus 2 times**). **IF- 4.839**
99. **D. Singh**, VK Dixit, S.Saraf, S.Saraf. Spectrophotometric determination of Serratiopeptidase and metronidazole in combined dosage forms, Bioscience, Biotechnology Research Asia. 2007; 4(1): 305-306. **IF-4.268**

## 2006

100. V. Jain, **D.Singh**, SwarnlataSaraf, S. Saraf .Transgenic plants derived immunoproteins – A Review. Plant archives. 2006; 6 (2): 41-55.
101. G.Garg, **D. Singh**, S.Saraf, S.Saraf.  $\alpha$ - Adrenergic Antagonist, treatment of Benign Prostate Hyperplasia: A Review. Biol. Pharm. Bull. 2006; 29(8):1554-1558. (**Cited by in Scopus 9 times**).
102. M Rawat, **D. Singh**, S.Saraf, S.Saraf. Nanocarriers: Promising vehicle for bioactive drugs. Biol. Pharm. Bull. 2006; 29(9):1790-1798. (**Cited by in Scopus 137times**).
103. **D. Singh**, M.Rawat, S.Saraf, S.Saraf. Transformation efficiency of Agrobacterium tumefaciens on different explants of Bhoerhaaviadifusa. Flora and fauna. 2006; 11(2): 231-232.

## 2005

104. G.Garg, **D. Singh**, S.Saraf, S.Saraf. Bioinformatics – A Review, Bioscience, Biotechnology Research Asia. 2005; 3(1): 111-114.
105. **D. Singh**, S.Saraf, S.Saraf . Chemical profile of Withaniasomnifera – A Review, PlantaIndica, 1(4) Oct. 2005, 6-14.
106. G.Garg, **D. Singh**, M. Rawat, K. Dashora, S.Saraf, S.Saraf. Biosensors A New Analytical tool: A Review. Biosciences, Biotechnology Research Asia. 2005; 3(2): 219-228.
107. **D. Singh**, M Rawat, G.Garg, S.Saraf, S.Saraf. Artemisia scoparia: A Review, Pharmacog. mag. 2005; 2(5): 1-4.



108. G. Ingle, **D. Singh**, VK Dixit. Biotechnology guided production of L-DOPA, Bioscience, Biotechnology Research Asia. 2005; 3(1): 123-124.

#### 2004

109. V. Jain, **D. Singh**, S.Saraf, S.Saraf. Anti fertility agents from plants, Plant Archives. 2004; 4 (2): 223-233.

#### 2003

110. **D. Singh**, V.Jain, S.Saraf, S.Saraf. Jivanti: A Review, Indian Journal of Natural Product. 2003; 19 (3): 11-15.
111. V. Jain, **D. Singh**, S.Saraf, S.Saraf. *In vitro* Free Radical Scavenging Activity of *Lepidium sativum*, Plant Archives. 2003; 3 (2): 315-318.
112. V. Jain, **D. Singh**, S.Saraf, S.Saraf *In vitro* micropropagation of *Rauwolfia serpentina* through multiple shoot generation, Ancient Science of Life. 2003; 23(1): 44-46.

#### Web publications

113. M Rawat, **D. Singh**, S.Saraf, S.Saraf. Novel non-viral gene carrier system: recent progress and current status, Published in www.Pharmainfo.net. Nov 2005.
114. K.Dashora, **D. Singh**, S. Saraf and Swarnlata Saraf. Validation: The essential quality assurance tool for pharma industry: In pharmainfo.net, Dec.2005.
115. S.Saraf, **D. Singh**, S. Saraf. Iontophoresis: A Review, www.Pharmainfo.net, 8 Feb 2006.
116. **D. Singh**, M.Rawat, S.Saraf, S.Saraf Isoflavones: A Natural Substitute for Postmenopausal Management www. Pharmainfo.net 01 February 2006.
117. K.Dashora, **D. Singh**, S.Saraf, S.Saraf Aceclofenac- a potent non-steroidal anti-inflammatory drug. www.Pharmainfo.net.2006.(Cited by in Scopus 4 times).
118. **D. Singh**, M.Rawat, S.Saraf, S.Saraf Quetiapine- a potent ant schizophrenic drug. In www.Pharmainfo.net 17 may 2006.
119. S.Saraf, **D. Singh**, S. Saraf. Accelerants- a review. In www.Pharmainfo.net, 2006

#### List of Staff Development Programmes/Seminars/Workshop attended

- UGC sponsored 21 days UGC sponsored Refresher Programme by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 11th Feb 2014 to 3rd March 2014
- UGC sponsored 21 days UGC sponsored Refresher course by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 1 Dec 2012 to 21 Dec 2012.
- UGC sponsored 28 days UGC sponsored Orientation Programme by Academic Staff College Pt. Ravishankar Shukla Univ., Raipur 1st Sept 2012 to 28th Sept 2012
- AICTE sponsored Short Term Training Programme for pharmacy teachers "Current Trends in Pharmaceutics" at Dr. H.S.Gourvishwavidyalaya, sagar, M.P. from 12 June-25 June 2005.
- AICTE sponsored Short Development Programme for pharmacy teachers with the theme "Current Trends in Pharmaceutical analytical techniques" at Pt. Ravishankar Shukla University, Raipur, and C.G. from 24 Feb-10 March 2006.
- Seminar of Indian Society of Pharmacognosy on "current trends in Phytopharmaceuticals" 11-12 March 2006. at Pt. Ravishankar Shukla University, Raipur, C.G.

- AICTE Sponsored Seminar on Quality perspectives of Herbal Cosmetics.8-9 Sep. 2007at Pt. RavishankarShuklaUniversity, Raipur, C.G.
- National symposium on current Trends in Pineal research & 4<sup>th</sup> IPSG meeting 5-7 oct.2006.
- Trends and Techniques in chronobiology: A workshop 20-25 march, 2006. At School of life sciences. Pt.RavishankarShuklaUniversity. Raipur.
- PCI and WHO sponsored professional training programme for pharmacists 25-29 june 2001, at GSITS. Indore.
- PCI sponsored National workshop on Health and Education 28-29 march, 2000. At BRNCP, Mandasour.
- GOVERNMENT OF INDIA, Ministry of small scale industries Training Programme on ISO 9000: TQM, 16-18 Jan., 2000. Organized by Small Industries Service Institute, Indore.(at Bhopal)

### **Papers Presented / Abstracted In Conferences**

1. 3rd C.G. Young Scientist Congress, Raipur, Feb28-01Mar. 2005, Ab.No. MedSc-04.
2. 56th Indian Pharmaceutical congress, Kolkata, 2-4 Dec.2004, Ab No.
3. 10th APTI National Convention, Nagpur, 17-18 oct. 2005, Ab No.PG-68.
4. 7th Annual Symposium, BIOHORIZON, IIT-Delhi, 2005.
5. 57th Indian Pharmaceutical congress, Hyderabad, 2-4 Dec.2005, Ab No. CP14.
6. 57th Indian Pharmaceutical congress, Hyderabad, 2-4 Dec.2005, Ab No. HP04.
7. 57th Indian Pharmaceutical congress, Hyderabad, 2-4 Dec.2005, Ab No. DP20.
8. 4th C.G. Young Scientist Congress, Raipur, Feb28-01Mar. 2005, Ab.No. MedSc-02.
9. CSPS 9th Annual international Symposium on Pharmaceutical Sciences, Canada May 24-27 2006. ab no. 45
10. CSPS 9th Annual international Symposium on Pharmaceutical Sciences, Canada May 24-27 2006. ab no. 56
11. 11th International Congress of Plant Tissue Culture & Biotechnology, Beijing, China, August 13-18, 2006. Ab ID- 486
12. 11th International Congress of Plant Tissue Culture & Biotechnology, Beijing, China, August 13-18, 2006. Ab ID- 419
13. 11th International Congress of Plant Tissue Culture & Biotechnology, Beijing, China, August 13-18, 2006. Ab ID- 425
14. World Congress of Pharmacy and Pharmaceutical Sciences, 66th International Conference of FIP 2006, Salvador, Bahia, Brazil, August 25-31, 2006.
15. FAPRONATURA 2006 First International Symposia about Pharmacology of Natural products and BLACPMA, Varadero, Cuba November 20-24, 2006.(accepted)
16. National symposium on current trends in pineal research October 05-07, 2006. Ab ID40.
17. 12th Asian Symposium on Medicinal plants, Spices and other Natural Products (ASOMPS XII) 13-18 November 2006.Padang, Indonesia (accepted).
18. 8th Joint indo Korean Symposium on Biochemical Engineering and Biotechnology, Biohorizon, IIT Delhi, 22-24th Feb 2007, New Delhi.

19. National seminar of Controlled release society, CRS Indian chapter, 14th Feb, 2007, Mumbai.
20. International conference on nanotechnology, Nanotech insight, 10-17th march, 2007, luxor, Egypt.
21. National seminar on controlled and targeted drug delivery Nanotechnology, 17-18th march, 2007, Dr. H.S. GourVishwavidyalaya, Sagar (M.P.)
22. Seminar on "Current advances in novel and cosmetic technology", 19-20 March, 2007, Institute of Pharmacy, Pt. RavishankarShukla University, Raipur (C.G.)
23. 59th Indian Pharmaceutical Congress, Varanasi, 20-23 Dec.2005, Ab No.467.
24. Dual elicitation for improved production of withaferin A by cell suspension cultures of *Withaniasomnifera*", in International Conference on New Horizons in Biotechnology (NHBT-07), held at Thiruanantpuram in Dec. 2007.
25. Agrobacterium mediated genetic transformation for production of plant based secondary metabolites" in 47th Annual Meeting of Association of Microbiologists of India, held at Bhopal in Dec. 06.
26. Pathogenic fungi for stimulation of phytoalexin biosynthesis in plant cell cultures" in 47th Annual Meeting of Association of Microbiologists of India, held at Bhopal in Dec. 06.
27. Optimization studies for Withaferin A production in suspension cultures of *W. somnifera* in National Seminar on "Emerging Horizons of Biotechnology", held at Bilaspur in Nov. 2006.
28. Elicitor-precursor combination for productivity enhancement in transformed culture of *Withaniasomnifera* in Second World Ayurveda Congress, held at Pune in Nov. 2006.
29. Withaferin A synthesis in *Agrobacterium tumefaciens* mediated transformed cultures of *Withaniasomnifera* in International conference on Exploring horizons in Biotechnology: A global venture and Third annual convention of Biotech Research Society of India, held at VallabhVidyanagar (Bakrol) Gujrat in Nov. 2006.
30. 60th Indian Pharmaceutical congress, New Delhi, 12-14 Dec.2008, Ab.
31. "Advance approaches in drug designing and drug targeting" GRY Institute of Pharmacy, Borawan ,Khargone, (M.P.) India. 2009.
32. Recent Advances in Pharmaceutical Technology, Swami Vivekanand College of Pharmacy, Indore, (M.P.) India. 2009.
33. Fabrication of multiphase hydrogel containing Serratiopeptidase and Gentamicin loaded PLGA Microspheres for effective and complete wound healing. FIP Pharmaceutical Sciences 2010 World Congress, 14–18 November 2010 abstract No: 1018.
34. 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.
35. 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

36. 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.
37. 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.
38. Novel Topical Formulation of Curcumin Lipospheres 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.
39. M.Pradhan, D.Singh, M.Singh. Solid Lipid Nanoparticles: A potential carrier for topical drug delivery Abstract no.429. Shastrarth-An International Conference 8-9 February, 2013, Rungta Group of Colleges, Bhilai, Chattisgarh, India (Published in Wiley Sc.).
40. Rajni Kant Panik, Deependra Singh, Manju Singh. Deformable vesicular carrier: A promising tool for burning wound healing. Abstract no.444. Shastrarth-An International Conference 8-9 February, 2013, Rungta Group of Colleges, Bhilai, Chattisgarh, India (Published in Wiley Sc.).
41. R.Panik, M.Singh, D.Singh. Development and characterization of novel system for wound healing, Wound care con-2013, 2<sup>nd</sup> International and 7<sup>th</sup> Annual conference of The society of wound care & Research(SWCR) 11-13<sup>th</sup> Oct.2013 Department of Plastic surgery, Jawaharlal Institute of postgraduate medical education and research (JIPMER) Pondicherry, India.
42. D.Singh, M.Singh. Development of debriding and antimicrobial loaded microsphere entrapped in cream formulation: An effective approach for complete wound management 18th APTICON 25-27 Oct 2013, VikasInstt of Pharm Sciences A.P. Ab no.
43. Satish Patel, Deependra Singh, Nagendra S. Chauhan, V.K. Dixit. Evaluation of ether and ethanolic extract of *Phyllanthusniruri* Linn. on Cyclophosphamide Induced Alopecia. APTICON 2013, Vikas Institute of Pharmaceutical Sciences, Rajahmundry, 25th -27th October 2013.
44. Mukesh Nag, Deependra Singh. Evaluation of ether and ethanolic extract of *Phyllanthusniruri* Linn. on Cyclophosphamide Induced Alopecia. APTICON 2013, Vikas Institute of Pharmaceutical Sciences, Rajahmundry, 25th -27th October 2013.
45. M.Pradhan, D.Singh, M.Singh. 18th APTICON 25-27 Oct 2013, VikasInstt of Pharm Sciences A.P.
46. M.Singh, M.Pradhan, D.Singh. 18th APTICON 25-27 Oct 2013, VikasInstt of Pharm Sciences A.P.
47. D.Singh, M.Singh. Delivery of Serratiopeptidase by natural polymer based lipospheres. AICTE Sponsored national Seminar on Emerging trends and innovation in drug delivery and pharmaceutical sciences 20 Oct 2013 Columbia Institute of Pharmacy, Tekari, Raipur
48. Pradhan Madhulika, Singh Deependra, Singh ManjuRawat, Nanostructured lipid carriers of halobetasol propionate: potential vehicle for topical treatment of psoriasis.

- Abstract No: A125. 65<sup>th</sup> Indian Pharmaceutical Congress held from 20<sup>th</sup>- 22<sup>nd</sup> December 2013, Noida, Delhi
49. Singh Deependra, Singh ManjuRawat. Preparation and *in vitro* characterization of dual drug loaded biocompatible chitosan based carrier for complete wound management. Abstract No: A128. 65<sup>th</sup> Indian Pharmaceutical Congress held from 20<sup>th</sup>- 22<sup>nd</sup> December 2013, Noida, Delhi
50. Singh Manju Rawat, Singh Deependra. Preparation and *in vitro* characterization of clobetasol propionate containing solid lipid nanoparticles for dermatological preparations. Abstract No: A129. 65<sup>th</sup> Indian Pharmaceutical Congress held from 20<sup>th</sup>- 22<sup>nd</sup> December 2013, Noida, Delhi.
51. Rajni Kant Panik, Deependra Singh, Manju Singh, Formulation and characterization of retapamulin loaded vesicular carrier for infected burn wound healing application. Abstract No: A134.
52. Jangde R.K., Singh D. and Singh M. Development of a spectrofluorimetric method for the determination of quercetin. Abstract No: A12. 65<sup>th</sup> Indian Pharmaceutical Congress held from 20<sup>th</sup>- 22<sup>nd</sup> December 2013, Noida, Delhi.