Curriculum Vitae

Dr. Prabhat Ranjan Mishra PhD, FNASc
Chief Scientist & Head
Department of Pharmaceutics and Pharmacokinetics
CSIR-Central Drug Research Institute
Sector-10, Jankipuram Extension, Sitapur Road, Lucknow -226-031
Email: prabhat_mishra@cdri.res.in; mishrapr@hotmail.com
Telephone : **0522-2772450 (4537)** Fax: **0522-2771940**

Education

Dr. H.S. Gour University, Sagar, University of Sagar (MP) (Central University)
B. Pharm, Department of Pharmaceutical Sciences (Merit holder) 1993

Dr. H.S. Gour University, Sagar, University of Sagar (MP) (Central University)
M.Pharm (Pharmaceutics) Department of Pharmaceutical Sciences 1995

Dr. H.S. Gour University, Sagar, University of Sagar (MP) (Central University)
PhD (Pharmaceutics (Novel and Targeted Drug Delivery Systems) 2001

Professional Career

S. No.	Institution Place	Position	From (Date)	To (date)
1.	Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute (CDRI), Lucknow	Chief Scientist & Head,	04.09.2021	Present
2.	Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute (CDRI), Lucknow	Senior Principal Scientist & Head*,	04.09.2016 *Head since 24.01.2020	03.09.2021
3.	Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute (CDRI), Lucknow	Principal Scientist	04.09.2011	03.09.2016
4.	Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute (CDRI), Lucknow	Senior Scientist &	04.09.2007	03.09.2011
5.	Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute (CDRI), Lucknow	Scientist	04.09.2003	03.09.2007
6.	Department of Pharmaceutics Faculty of Pharmacy, Jamia Hamdard (Hamdard University), New-Delhi.	Asst Professor (Pharmaceutics)	19.11.2000	01.09.2003
7.	Nicholas(P) India Ltd	Jr. Executive	26.10.1995	30.04.1997

Area of Specialization

Development of novel biomaterials for using as nanomaterials, Target Oriented Drug Delivery Systems for enhanced therapeutic index of drugs. Nanomedicine, Ligand receptor interaction, Endosomal pH-responsive drug delivery, Intracellular delivery of drugs. Targeting to tumor and macrophages.

Deputation Abroad

Visiting Scientist at Institute of pharmaceutical Technology, Free University, **Berlin, Germany** under INSA-DFG Programme in 2008

Visiting Scientist at University of **Bradford, UK** under Royal society-CSIR joint research project from 2010

Honours and Awards received

- Elected **Fellow, National Academy of Sciences (FNASc)** from NASI Prayagraj (2019)
- **Awarded TATA INNOVATION FELLOWSHIP 2018-19** by DBT Govt. of India for contribution in the area of translational research based on controlled and targeted drug delivery technologies.
- **Commercialized** Two products in the market i.e. **Joint Fresh™** (for osteoarthritis) and **Reunion™** (Rapid fracture healing) while **five** Products **Licensed** to Industries.
- Listed in **top 2% scientists** of the world in the area of Pharmacology and Pharmacy, a list released by Stanford University 2021 & 2022.
- **Dr Mridula Kamboj Award (2022)** for Drugs, Diagnostics, Vaccines and related basic research for developing Umifenovir as possible treatment of covid-19.
- **Awarded INSA-DFG fellowship** under Bilateral Exchange Programme in 2008.
- **Awarded development grant from FIP**, The Netherlands 2003.
- **Visiting Scientist** at Free University of Berlin, Germany 2008.
- **Visiting Scientist** at Bradford University, UK 2009
- **Outstanding reviewer award 2017** by Elsevier
- **Technology award (2021)** for the development of Process for the preparation of Umifenovir (Antiviral) licensed to M/s Medizest Pharmaceuticals Pvt. Ltd., Goa.
- **Technology award (2021)** for the technology transfer of C*assia occidentalis* for bone regeneration and mitigation of corticosteroid-induced osteoporosis Industry to M/s Pharmanza Herbal Pvt. Ltd.
- **Technology award (2020)** for the development of a product for Benign Prostatic Hyperplasis licensed to Lumen 2019.

Academic achievements

Publications (SCI) (Average IF >5)	**: 147**
Patents	**: 27**
Products licensed	**: 05**
Products Commercialized	**: 02**
Book Chapters	**: 09**
PhD students Supervised	**: 20**
PG Dissertation	**: > 60**
***h*-index**	**: 43**
Citations	**: >7200**

- **Technology award (2019)** for the development of a SMEDDS based product for Osteoarthritis available in the market as **"Joint Fresh"** 2019.
- **CDRI Directors' Special Incentive award** for excellence in research for the year 2013, 2014, 2015, 2016, 2019 & 2020 for publishing highes impact factor journal.
- **Young scientist (Fast Track) award** by Department of Science and Technology, India 2006.
- **Grant reviewer of OPUS research grant** proposals, National Science Center, Panel ST5, 2016
- **Grant reviewer of Research grant proposals** for Health and Medical Research Fund, Hongkong, 2016
- **Research group awarded Dr DL Shrivastava Memorial** Early career Award- 2019
- **Dr JM Khanna Memorial Early Career** Achievement Awardin 2017& 2019 to research group
- **Research group awarded Swarn Nityanand** award for excellence in research 2016 and 2017.

Number of Technologies commercialized: TWO

(i) As a part of **translational research,** a licensed and commercialized **nanoemulsion based** anti-osteoarthritic product comprising standardized extract and biomarkers of *Spinacea oleracea*, has been **launched in the market** and is available as **Joint Fresh™** being marketed by **AERAN Labs.** The novel SMEDDS based formulation was developed that enhanced the bioavailability of biomarkers and dose was reduced to 150 mg/kg from 750 mg/kg. This strategy was patented and finally licensed to Industry for commercialization.

(ii) Reunion™ Tablets containing standadrdized extract of *Dalbergia Sissoo* for rapid fracture healing

Another Product **Reunion™** available in the market for rapid fracture healing containing standadrdized extract of *Dalbergia Sissoo* (in neutraceutical mode) being marketed by Aeran Labs Pvt. Ltd.

Number of Technologies transferred (licensed) to industry: FIVE

(i) Development of Self Emulsifying Drug Delivery Systems comprising Standardized Extract of *Cassia Occidentalis* for Improved Efficacy in glucocorticoid induced osteoporosis. (Technology licensed to Pharmanza Herbals Pvt Ltd. 2018.

(ii) Development of SMEDDS nanoformulation of Spinacea oleracea for the treatment of osteoarthritis (Techology licensed and commercialized)

(iii) Licensed a product based on Chebulinic acid enriched fraction (N-012-0001 biomarker) with respect to Benign Prostatic Hyperplasia to Lumen Marketing Company, Chennai 2019. **(Technology transferred)**

(iv) Signed collaborative agreement with Pharmanza Herbals Pvt Ltd. Gujarat on 8th August 2018 **Combination formulation of Spinacea oleracea and Boswellia serrata for synergistic efficacy for the treatment of osteoarthritis/joint related disorders**.

(v) Recently, during Covid-19 Pandemic we have developed and licensing **Umifenovir** to Medizest Pharmaceuticals Pvt Ltd. We established all the API Pharmaceutical specifications and developed formulation for which DCGI approval has been **obtained for Phase III clinical trial** in Covid patients. Double Blind Placebo controlled Phase III clinical trial is completed and data has been submitted to DCGI for marketing approval

Mentorship provided

(i)	Total No. of Ph.D students Supervised (awarded)	:	**20 (Twenty)**
(ii)	Total No. of Ph.D students under supervision	:	**08 (Eight)**
(iii)	No.of N-PDF (Post Doctoral fellow)	:	**01**
(iv)	Total No. of M.Pharm students Supervised	:	**> 60 (> Sixty)**
(v)	Total No of research presentations/invited lectures	:	> **56**

Number of Research Publications & Book Chapters

(i)	Total no. of Publications in SCI Journals	**:**	**147 [Avg I.F >5.0]**
(ii)	No. of Book Chapters	**:**	**09**

Number of Patents Granted/Filed : **27**

Research Projects and Grants implemented during the last 5 years

Our Lab research has been funded by research grants from several funding agencies (worth Rs >20 crores) like Department of Biotechnology (DBT), Department of Science and Technology (DST), Council of Scientific & Industrial Research (CSIR, India), International Pharmaceutical Federation (FIP), Royal Society UK. Funded projects worth Rs >20 crores.

Selected Publications [*Last FIFTEEN Years*]

S No.	Publication Details	IF
1.	Shalini Gautam, Neha Singh, Disha Marwaha, Nikhil Rai, Madhu Sharma, Pratiksha Tiwari, Sanjay Singh, Avijit Kumar Bakshi, Ankit Kumar, Neha Agarwal, Ravi Prakash Shukla, **Prabhat Ranjan Mishra*** Celastrol-loaded polymeric mixed micelles shows improved antitumor efficacy in 4 T1 bearing xenograft mouse model through spatial targeting ***Int. J. Pharm.*** 659, 124234 (2024)	**5.3**
2.	Shivali Duggal, Shivani Sharma, Nikhil Rai, Divya Chauhan, Vishal Upadhyay, Swati Srivastava, Konica Porwal, Chirag Kulkarni, Arun K Trivedi, Jiaur R Gayen, **Prabhat R Mishra***, Naibedya Chattopadhyay, Subhashis Pal Anti-Microbial Drug Metronidazole Promotes Fracture Healing: Enhancement in the Bone Regenerative Efficacy of the Drug by a Biodegradable Sustained-Release In Situ Gel Formulation ***Biomedicines*** 12 (7) 1603 (2024)	**3.9**
3.	Ravi Prakash Shukla, Pratiksha Tiwari, Anirban Sardar, Sandeep Urandur, Shalini Gautam, Disha Marwaha, Ashish Kumar Tripathi, Nikhil Rai, Ritu Trivedi,Prabhat Ranjan Mishra* Alendronate-functionalized porous nano-crystalsomes mitigate osteolysis and consequent inhibition of tumor growth in a tibia-induced metastasis model ***J. Controlled Rel.*** 372 (2024) 331–346 ***(Corresponding author)***	**11.47**
4.	Pratiksha Tiwari, Krishna Yadav, Ravi Prakash Shukla, Avijit Kumar Bakshi, Dilip Panwar, Sweety Das, Prabhat Ranjan Mishra Extracellular Vesicles-powered Immunotherapy: Unleashing the Potential for Safer and More Effective Cancer Treatment ***Arch. Biochem. Biophys.*** (756) 110022 (2024) ***(Corresponding author)***	**3.9**

5.	Pratiksha Tiwari, Ravi Prakash Shukla, Krishna Yadav, Dilip Panwar, Neha Agarwal, Ankit Kumar, Neha Singh, Avijit Kumar Bakshi, Disha Marwaha, Shalini Gautam, Nikhil Rai, Prabhat Ranjan Mishra, Exploring nanocarriers as innovative materials for advanced drug delivery strategies in onco-immunotherapies ***Journal of Molecular Graphics and Modelling*** (128) 108702 (2024) ***(Corresponding author)***	**2.9**
6.	Nidhi Mishra, Madhu Sharma, Pooja Mishra, Raquibun Nisha, Priya Singh, Ravi Raj Pal, Neelu Singh, Samipta Singh, Priyanka Maurya, Suyash Pant, Prabhat Ranjan Mishra, Shubhini A Saraf Transporter targeted-carnitine modified pectin-chitosan nanoparticles for inositol hexaphosphate delivery to the colon: An in silico and in vitro approach ***Int. J. Biol. Macromol.*** (263) 130517 (2024)	**8.2**
7.	PratikshaTiwari, Ravi Prakash Shukla Krishna Yadav, Neha Singh, Disha Marwaha, Shalini Gautam, Avijit Kumar Bakshi Nikhil Rai, Ankit Kumar, Deepak Sharma, Prabhat Ranjan Mishra, Dacarbazine-primed carbon quantum dots coated with breast cancer cell-derived exosomes for improved breast cancer therapy ***J. Controlled Rel.*** 365; 43-59 (2024) ***(Corresponding author)***	**11.47**
8.	Madhu Sharma, Dilip Panwar, Pratiksha Tiwari, Ankit Kumar, Shalini Gautam, Disha Marwaha, Nikhil Rai, Neha Singh, Avijit Kumar Bakshi, Neha Agarwal, Nisha Kumari C Singh, Kalyan Mitra, VM Prajapati, Prabhat Ranjan Mishra Immobilized doxorubicin and ribociclib carbamate linkers encaged in surface modified cubosomes spatially target tumor reductive environment to enhance antitumor efficacy ***Biomaterials Adv.*** 213672 (2023) ***(Corresponding author)***	**7.9**
9.	Tiwari P, Yadav K, Shukla RP, Gautam S, Marwaha D, Sharma M, Mishra PR Surface modification strategies in translocating nano-vesicles across different barriers and the role of bio-vesicles in improving anticancer therapy ***J. Controlled Rel.*** 363 290-348 (2023) ***(Corresponding author)***	**11.47**
10.	Neha Singh, Disha Marwaha, Shalini Gautam, Nikhil Rai, Pratiksha Tiwari, Madhu Sharma, Ravi Prakash Shukla, Madhav Nilakanth Mugale, Akhilesh Kumar, Prabhat Ranjan Mishra Surface-Modified Lyotropic Crystalline Nanoconstructs Bearing Doxorubicin and Buparvaquone Target Sigma Receptors through pH-Sensitive Charge Conversion to Improve Breast Cancer Therapy ***ACS Biomacromolecules*** 24, 12 (5780-5796 (2023) ***(Corresponding author)***	**5.99**
11.	Shalini Gautam, Disha Marwaha, Neha Singh, Nikhil Rai, Madhu Sharma, Pratiksha Tiwari, Sandeep Urandur, Ravi Prakash Shukla, Venkatesh Teja Banala, Prabhat Ranjan Mishra Self-Assembled Redox-Sensitive Polymeric Nanostructures Facilitate the Intracellular Delivery of Paclitaxel for Improved Breast Cancer Therapy ***Mol. Pharm***.4 (20) 1914-1932 (2023) ***(Corresponding author)***	**5.36**
12.	Nidhi Mishra, Surbhi Pal, Madhu Sharma, Raquibun Nisha, Ravi Raj Pal, Priya Singh, Samipta Singh, Priyanka Maurya, Neelu Singh, **Prabhat Ranjan Mishra**, Shubhini A Saraf Crosslinked and PEGylated Pectin Chitosan nanoparticles for delivery of Phytic acid to colon ***Int.J. Pharm***. 639 122937 (2023)	**6.51**
13.	Ritu Trivedi, Sulekha Adhikary, Priyanka Kothari, Naseer Ahmad, Naresh Mittapelly, Gitu Pandey, Mahendra Shukla, Sudhir Kumar, Kapil Dev, Dharmendra Choudhary, Rakesh Maurya, Jawahar Lal and **Prabhat Ranjan Mishra** Self-emulsifying formulation of Spinacia oleracea reduces the dose and escalates bioavailability of bioactive compounds to accelerate fracture repair in rats ***Clin. Phytoscience*** 6:50 1-15 (2020). ***(Corresponding author)***	**2.5**
14.	Subhashis Pal, Naresh Mittapelly, Athar Husain, Sapana Kushwaha, Sourav Chattopadhyay, Padam Kumar, Eppalapally Ramakrishna, Sudhir Kumar, Rakesh Maurya, Sabyasachi Sanyal, Jiaur R.Gayen, **Prabhat R. Mishra** & Naibedya Chattopadhyay A butanolic fraction from the standardized stem extract of Cassia occidentalis L delivered by a self-emulsifying drug delivery system protects rats	**4.38**

	from glucocorticoid-induced osteopenia and muscle atrophy **Scientific Reports** 10:195, 1-14 (2020)	
15.	Ravi Prakash Shukla, Jayant Dewangan, Sandeep Urandur, Venkatesh Teja Banala, Monika Diwedi, Shweta Sharma, Sristi Agrawal, Srikanta Kumar Rath, Ritu Trivedi, **Prabhat Ranjan Mishra** Multifunctional hybrid nanoconstructs facilitate intracellular localization of doxorubicin and genistein to enhance apoptotic and antiangiogenic efficacy in breast adenocarcinoma ***Biomater. Sci.*** 8, 1298-1315**,** (2020) **DOI: 10.1039/C9BM01246**, ***(Corresponding author)***	**7.59**
16.	Priyanka Kushwaha, Naseer Ahmad, Yogeshwar V Dhar, Ashwni Verma, Saikat Haldar, Fayaj A Mulani, Prabodh K Trivedi, **Prabhat R Mishra**, Hirekodathakallu V Thulasiram, Ritu Trivedi Estrogen receptor activation in response to Azadirachtin A stimulates osteoblast differentiation and bone formation in mice ***J Cell. Physiol***.; 234:23719–23735 (2019) **doi.org/10.1002/jcp.28940**	**6.51**
17.	Venkatesh Teja Banala, Sandeep Urandur, Shweta Sharma, Madhu Sharma, Ravi P. Shukla, Disha Marwaha, Shalini Gautam, Monika Dwivedi and **Prabhat Ranjan Mishra*** Targeted co-delivery of the aldose reductase inhibitor epalrestat and chemotherapeutic doxorubicin via a redox-sensitive prodrug approach promotes synergistic tumor suppression ***Biomater. Sci.***, 7, 2889-2906 (2019) ***(Corresponding author)***	**7.59**
18.	Gitu Pandey, Naresh Mittapelly, Venkatesh Teja Banala, and **Prabhat Ranjan Mishra*** Multifunctional Glycoconjugate Assisted Nanocrystalline Drug Delivery for Tumor Targeting and Permeabilization of Lysosomal Mitochondrial Membrane ***ACS Appl. Mater. Interfaces*** 10 (20), 16964–16976 (2018) ***(Corresponding author)*** ***(Received Institutional Excellence in research award)***	**10.38**
19.	Sandeep Urandur, Venkatesh TejaBanala, Ravi Prakash Shukla, Naresh Mittapelly, Gitu Pandey, NavodayamKalleti, Kalyan Mitra, Srikanta Kumar Rath, Ritu Trivedi, Pratibha Ramarao, **Prabhat Ranjan Mishra** Anisamide Anchored Lyotropic Nano Liquid Crystalline Particles with AIE Effect-A Smart Optical Beacon for Tumor Imaging and Therapy ***ACS Appl. Mater. Interfaces*** 10(15) 12960-12974 (2018) ***(Corresponding author)*** ***(Received Institutional Excellence in research award)***	**10.38**
20.	Venkatesh Teja Banala, Shweta Sharma, Puja Barnwal, Sandeep Urandur, Ravi P Shukla, Naseer Ahmad, Naresh Mittapalley, Gitu Pandey, Monika Dwivedi, Navodayam Kalleti, Kalyan Mitra, Srikanta Kumar Rath, Ritu Trivedi, **Prabhat Ranjan Mishra** Synchronized Ratiometric Co-Delivery of Metformin and Topotecan Through Engineered Nanocarrier Facilitate In-Vivo Synergistic Precision Levels at Tumor Site ***Adv. Healthcare Mater.*** 7(19):e1800300 (2018). ***(Corresponding author)***	**11.12**
21.	Naresh Mittapelly, Gitu Pandey, Sachin Laxman Tulsankar, Sadaf Arfi, Rabi Sankar Bhatta, and **Prabhat Ranjan Mishra*** In Depth Analysis of Pressure-Sensitive Adhesive Patch-Assisted Delivery of Memantine and Donepezil Using Physiologically Based Pharmacokinetic Modeling and in Vitro/in Vivo Correlations ***Mol. Pharm***.15(7):2646-2655 (2018). ***(Corresponding author)***	**5.36**
22.	M Dwivedi, S Agrawal, V Teja, R Shukla, S Urandur, **PR Mishra** Remediation of hormone refractory breast cancer via co-loaded phytoliposomes ***Cancer Medicine*** 7, 39-39 (2018). ***(Corresponding author)***	**4.45**
23.	S Urandur, VT Banala, S Sharma, RP Shukla, **PR Mishra** Multimodal lyotropic liquid crystalline nanoparticles with aggregation-induced effect for image-guided cancer chemotherapy ***Cancer Medicine*** 7, 48-48 (2018). ***(Corresponding aut***	**4.45**
24.	VT Banala, S Urandur, R Shukla, G Pandey, N Mittaplley, M Dwivedi, **PR Mishra*** Boosting combination chemotherapeutic efficacy of Metformin and Topotecan using ion trapping assisted ratiometric delivery via pseudo cell like mesoporous silica nanoparticles ***Cancer Medicine*** 7, 48-49 (2018). ***(Corresponding author)***	**4.45**

25.	Dharmendra Choudhary, Priyanka Kothari, Ashish Kumar Tripathi, Sonu Singh, SulekhaAdhikary, Naseer Ahmad, Sudhir Kumar, Kapil Dev, Vijay Kumar Mishra, Shubha Shukla, Rakesh Maurya, **Prabhat R Mishra**, Ritu Trivedi Spinacia oleracea extract attenuates disease progression and sub-chondral bone changes in monosodium iodoacetate-induced osteoarthritis in rats ***BMC Complementary and Alternative Medicine*** (2018) 18:69.	**3.66**
26.	Sandeep Urandur, Disha Marawaha, Shalini Gautam, Venkatesh Teja Banala, Madhu Sharma, **Prabhat Ranjan Mishra** Non-lamellar liquid crystals: A new paradigm for the delivery of small molecules and biomacromolecules ***Therapeutic Delivery*** 9(9):667-689 (2018) ***(Corresponding author)***	**2.45**
27.	Sulekha Adhikary, Dharmendra Choudhary, Naseer Ahmad, AnirudhaKarvande, Avinash Kumar, Venkatesh TejaBanala, **Prabhat Ranjan Mishra**, Ritu Trivedi Dietary flavonoid kaempferol inhibits glucocorticoid-induced bone loss by promoting osteoblast survival ***Nutrition*** 53, 64-76 (2018)	**4.00**
28.	Dharmendra Choudhary, SulekhaAdhikary, Naseer Ahmad, Priyanka Kothari, Ashwni Verma, Prabodh Kumar Trivedi, **Prabhat Ranjan Mishra**, Ritu Trivedi Prevention of articular cartilage degeneration in a rat model of monosodium iodoacetate induced osteoarthritis by oral treatment with Withaferin A ***Biomedicine & Pharmacotherapy*** 99: 151-161 (2018)	**6.53**
29.	Sana Farooqui, Saurabh Srivastava,Shadab Mohammad,Aditya Bhushan Pant, **Prabhat Ranjan Mishra**, Gitu Pandey, Shalini Gupta 6Co-delivery of 5-Fluorouracil and Curcumin Nanohybrid Formulations f7or Improved Chemotherapy Against Oral Squamous Cell Carcinoma ***J. Maxillofacial & Oral Surgery*** 17(4) 597-610 (2018)	**1.89**
30.	Naresh Mittapelly, Maharshi Thalla,Gitu Pandey, Venkatesh TejaBanala, Shweta Sharma, Abhishek Arya, Sandeep Mishra, Kalyan Mitra, Shubha Shukla, **Prabhat Ranjan Mishra*** Long Acting Ionically Paired Embonate Based Nanocrystals of Donepezil for the Treatment of Alzheimer'sDisease:aProof of Concept Study ***Pharm Res*** 34:2322–2335 (2017) ***(Corresponding author)***	**4.20**
31.	Priyanka Tripathi, Anil Kumar Jaiswal, Anuradha Dube, **Prabhat Ranjan Mishra*** Hexadecylphosphocholine (Miltefosine) stabilized chitosan modified Ampholipospheres as prototype co-delivery vehicle for enhanced killing of L. donovani ***Int. J. Biol. Macromol.*** 105(Pt 1):625-637(2017) ***(Corresponding author)***	**7.71**
32.	Gitu Pandey, Naresh Mittapelly, Guru Raghavendra Valicherla, Ravi Prakash Shukla, Shweta Sharma, Venkatesh TejaBanala, Sandeep Urandur, Arun Kumar Jajoriya, Kalyan Mitra, DP Mishra, JR Gayen, **PR Mishra*** P-gp modulatory Acetyl-11-keto-β-boswellic acid based nanoemulsified carrier system for augmented oral chemotherapy of docetaxel ***Colloids and Surfaces B: Biointerfaces***155: 276-286 (2017) ***(Corresponding author)***	**5.99**
33.	Sandeep K Singh, Vishal Makadia, Shweta Sharma, Mamunur Rashid, Sudhir Shahi, **Prabhat R Mishra**, Mohammed Wahajuddin, Jiaur R GayenPreparation and in-vitro/in-vivo characterization of trans-resveratrol nanocrystals for oral administration ***Drug Delivery & Translational Research*** 7(3):395-407 (2017)	**4.62**
34.	Adhikary S, Choudhary, D Ahmad N, Kumar S, Dev K, Mittapelly N, Pandey G, **Mishra PR** Maurya R, Trivedi R Dried and free granules of Spinacia Oleracea accelerate bone regeneration and alleviate post-menopausal osteoporosis ***Menopause*** 24(6):686-698 (2017)	**2.95**
35.	Anirudha Karvande, Vikram Khedgikar, Priyanka Kushwaha, Naseer Ahmad, Priyanka Kothari, Ashwni Verma, Padam Kumar, Geet Kumar Nagar, **Prabhat Ranjan Mishra**, Rakesh Maurya, Ritu Trivedi Heartwood extract from Dalbergia sissoo promotes fracture healing and its application in ovariectomy-induced osteoporotic rats ***J. Pharm.Pharmacol***. 69(10):1381-1397(2017)	**3.76**

36.	Monika Sharma, Shweta Sharma, Vikas Sharma, Komal Sharma, Santosh Kumar Yadav, Pankaj Dwivedi, Satish Agrawal, Sarvesh Kumar Paliwal, Anil Kumar Dwivedi, Jagdamba Prasad Maikhuri, Gopal Gupta, **Prabhat Ranjan Mishra**, Ajay Kumar Singh Rawat Oleanolic–bioenhancer coloaded chitosan modified nanocarriers attenuate breast cancer cells by multimode mechanism and preserve female fertility ***Int. J. Biol. Macromol.***104(Pt A):1345-135 (2017)	**7.71**
37.	Shweta Sharma, Ashwni Kumar Verma, Jyotsana Singh, B Venkatesh Teja, Naresh Mittapelly, Gitu Pandey, Sandeep Urandur, Ravi Shukla, Rituraj Konwar, **Prabhat Ranjan Mishra*** Vitamin B6 Tethered Endosomal pH Responsive Lipid Nanoparticles for Triggered Intracellular Release of Doxorubicin ***ACS Appl. Mater. Interfaces*** 8 (44), 30407–30421 (2016) ***(Corresponding author)*** ***(Received Institutional Excellence in research award)***	**10.38**
38.	Dharmendra Choudhary, Priyanka Kushwaha, Jyoti Gautam, Padam Kumar, Ashwani Verma, Avinash Kumar, Saransh Wales Maurya, Ibadur Rahman Siddiqui, **Prabhat Ranjan Mishra**, Rakesh Maurya, Ritu Trivedi Fast and long acting neoflavonoidsdalbergin isolated from Dalbergia sissoo heartwood is osteoprotective in ovariectomized model of osteoporosis: Osteoprotective effect of Dalbergin ***Biomedicine & Pharmacotherapy*** (83) 942-957 (2016). ***(Corresponding author)***	**6.53**
39.	Guru R Valicherla, Priyanka Tripathi, Sandeep K Singh, Anees A Syed, Mohammed Riyazuddin, Athar Husain, Deep Javia, Kishan S Italiya, **Prabhat R Mishra**, Jiaur R GayenPharmacokinetics and bioavailability assessment of Miltefosine in rats using high performance liquid chromatography tandem mass spectrometry **J. Chromatography B** (1031) 123-130 (2016)	**3.21**
40.	Ashwni Kumar Verma, Shweta Sharma, Pramod Kumar Gupta, Deepak Singodia, Shaswat Kansal, Veena Sharma, **Prabhat Ranjan Mishra*** Vitamin B12 grafted Layer-by-Layer liposomes bearing HBsAg facilitates oral immunization: Effect of modulated biomechanical properties ***Mol. Pharm*** 13(7) 2531-2542 (2016) ***(Corresponding author)***	**5.36**
41.	Priyanka Kushwaha, Vikram Khedgikar, Deepika Sharma, Tony Yuen, Jyoti Gautam, Naseer Ahmad, Anirudha Karvande, **Prabhat R Mishra**, Prabodh K Trivedi, Li Sun, Sanjay K Bhadada, Mone Zaidi, Ritu Trivedi MicroRNA 874-3p Exerts Skeletal Anabolic Effects Epigenetically during Weaning by Suppressing Hdac1 Expression ***J. Biol. Chem*** 291(8) 3959-3966 (2016)	**5.49**
42.	Naseer Ahmad, Venkatesh Teja Banala, Priyanka Kushwaha, AnirudhaKarvande, Shweta Sharma, Ashish Kumar Tripathi, Ashwni Kumar Verma, **Prabhat Ranjan Mishra*** Quercetin loaded solid lipid nanoparticles improves Osteoprotective activity in ovariectomized Rat Model: A preventive strategy for post-menopausal osteoporosis ***RSC Adv.*** DOI: 10.1039/C6RA17141A (2016) ***(Corresponding author)***	**4.04**
43.	Shweta Sharma, Jyotsana Singh, Ashwni Verma, Banala Venkatesh Teja, Ravi P Shukla, Sandeep K Singh, Veena Sharma, RiturajKonwar, **PR Mishra*** Hyaluronic acid anchored paclitaxel nanocrystals improves chemotherapeutic efficacy and inhibits lung metastasis in tumor-bearing rat model ***RSC Adv.*** 6(77):73083-73095 (2016) ***(Corresponding author)***	**4.04**
44.	Gitu Pandey, Naresh Mittapelly, Anamika Pant, Shweta Sharma, Pratiksha Singh Venkatesh Teja, Ritu Trivedi, P K Shukla **P R Mishra*** Dual functioning microspheres embedded cross-linked gelatin cryogels for therapeutic intervention in osteomyelitis and associated bone loss ***Eur. J. Pharm. Sci.*** 91:105-13 (2016) ***(Corresponding author)***	**5.11**
45.	Ashwni Verma,Shweta Sharma,Pramod Kumar Gupta,Awadhesh Singh,B Venkatesh Teja, Pankaj Dwivedi,Girish Kumar Gupta, Ritu Trivedi,**Prabhat Ranjan Mishra*** Vitamin B12 functionalized layer by layer calcium phosphate	**10.63**

	nanoparticles: A mucoadhesive and pH responsive carrier for improved oral delivery of insulin ***Acta Biomater.*** 31:288-300. doi: 10.1016/j.actbio (2016). ***(Corresponding author)*** ***(Received Institutional Excellence in research award)***	
46.	Naresh Mittapelly, Ramakrishna Rachumallu, Gitu Pandey, Shweta sharma, Abhishek Arya, Rabi Shanker Bhatta, **Prabhat Ranjan Mishra*** Investigation of salt formation between memantine and pamoic acid: Its exploitation in nanocrystalline form as long acting injection ***Eur. J. Pharm. Biopharm.*** 101 62-71 (2016) ***(Corresponding author)***	**5.59**
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Cumulative I.F 601.73

List of Patents: **27**

Sr.No.	Title of the patent	Authors	Patent No.	National / International	Applied / Granted	Year Applied / Granted	If commercialized, name of industry partner; Value; Year
1	Controlled Release Micro-Capsule for osteogenic action	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K Srivastava, N Chattopadhyay A.K. Dwivedi	US 8,496,964.	International (USA)	**Granted**	2013	Negotiation in progress
2	Controlled Release Micro-Capsule for	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K	EP 2400957 B1	International (Europe)	**Granted**	2013	Negotiation in progress

	osteogenic action	Srivastava, N Chattopadhyay A.K. Dwivedi					
3	Controlled Release Micro-Capsule for osteogenic action	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K Srivastava, N Chattopadhyay A.K. Dwivedi	AU2010217238A	International (Australia)	**Granted**	2013	Negotiation in progress
4	Controlled Release Micro-Capsule for osteogenic action	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K Srivastava, N Chattopadhyay A.K. Dwivedi	CA 2753993 C	International (Canada)	**Granted**	2013	Negotiation in progress
5	Controlled Release Micro-Capsule for osteogenic action	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K Srivastava, N Chattopadhyay A.K. Dwivedi	GB 2400957	International (Great Britain)	**Granted**	2013	Negotiation in progress
6	Composition and methods of nonionic surfactant based vesicular formulation for improved delivery of cyclosporine	**P.R Mishra**, Vure Prasad, A.K. Dwivedi and S Singh	258311	National	**Granted**	2013	Negotiation in progress
7	Controlled Release Micro-Capsule for osteogenic action	**PR Mishra**, Ritu Trivedi, GK Gupta, A Kumar, V Gupta, SK Rath, K Srivastava, N Chattopadhyay A.K. Dwivedi	BRPI1008764A (2010)	International	Filed	2010	Negotiation in progress

8	Polymeric nanomatrix associated delivery of Kaempferol in rats to improve its osteogenic action	**Prabhat Ranjan Mishra,** Ritu Trivedi, Girish Kumar Gupta, Avinash Kumar, Varsha Gupta, Srikanta Kum ar Rath, Kamini Srivastava, Naibedya Chattopadhyay & Anil Kumar Dwivedi	289560	National (India)	**Granted**	2017	Negotiation in progress
9	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta	14/904981	Intarnational (US)	**Filed**	2019	Negotiation in progress
10	Pharmaceutical Composition for the prevention and/or treatment of bone related disorders	Ritu Trivedi, **Prabhat Ranjan Mishra,** Sulekha Adhikary, Naseer Ahmad, Dharmendra Choudhary, Naresh Mittapelly, Sudhir Kumar, Kapil Dev, Rakesh Maurya	**US Patent** 10265297	International	**Granted**	2019	**Commercialized**
	Pharmaceutical Composition for the prevention and/or treatment of bone related disorders	Ritu Trivedi, **Prabhat Ranjan Mishra,** Sulekha Adhikary, Naseer Ahmad, Dharmendra	**IN Patent 516610**	National	**Granted**	2024	**Commercialized**

		Choudhary, Naresh Mittapelly, Sudhir Kumar, Kapil Dev, Rakesh Maurya					
11	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta	**AU Patent** 2014291615	International	**Granted**	2020	
12	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta	**CA Patent** 2917921	International	**Granted**	2021	

13	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,	**US Patent** 10,596,115	International	**Granted**	March 2020	
14	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,	**EU Patent** 14759347.9	International	**Filed**	2016	
15	Pharmaceutical composition for the treatment for Diminution of bone tissue	Trivedi Dr. Ritu, **Mishra Dr. Prabhat R**, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka,	**PCT Patent** PCT/IN2014 /000475	International	**Filed**	2014	

		Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,					
16	Proteasomal inhibitors useful for osteogenic activity and pharmaceutical composition thereof (OsteoHEAL)	**Mishra Dr. Prabhat R**, Trivedi Dr. Ritu, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,	**IN Patent** 345265	National	**Granted**	2020	
17	Proteasomal inhibitors useful for osteogenic activity and pharmaceutical composition thereof (OsteoHEAL)	**Mishra Dr. Prabhat R**, Trivedi Dr. Ritu, Sangwan Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,	**US Patent** 10596115	International	**Granted**	2020	
18	Proteasomal inhibitors useful for osteogenic	**Mishra Dr. Prabhat R**, Trivedi Dr. Ritu, Sangwan	**AU Patent** 2014291615	International	**Granted**	2020	Not Yet

	activity and pharmaceutical composition thereof (OsteoHEAL)	Dr. Neelam S Trivedi Dr. Prabodh Singh Dr. Divya, Sangwan Dr. Rajender S, Kushwaha Priyanka, Khedgikar Vikram Adhikary Sulekha, Choudhary Dharmendra, Swarup Jyoti, Kumar Avinash Karvande Anirudha, Verma Ashwni, Sharma Shweta,					
19	Novel combination kit for treatment of malaria.	Tripathi Renu, **Mishra Prabhat Ranjan**, Dwivedi Pankaj, Dwivedi Hemlata, Singh Sunil Kumar, Puri Sunil Kumar, Dwivedi Anil Kumar.	**IN Patent** 440383	National	**Granted**	2023	Negotiation in progress
20	An antituber cular formulation of Novel 4-alkoxy phenyl cyclopropyl alaknols	R.P.Tripathi **Prabhat Ranjan Mishra,** Girish Kumar Gupta, Surendra Singh Bisht, Jyoti Pandey, Vinita Chaturvedi, Sudhir Singh, Varsha Gupta and A.K. Dwivedi	**IN Patent** 293425	National	**Granted**	26.02.2018	Not Yet
21	Pharmaceutical Cimposition for the prevention and/or treatment of bone related disorders	Ritu Trivedi, **Prabhat Ranjan Mishra,** Sulekha Adhikary, Naseer Ahmad, Dharmendra Choudhary, Naresh Mittapelly, Sudhir Kumar, Kapil Dev, Rakesh Maurya	**IN Patent** 201611022640	National	**Filed**	2017	**Commercialized**
22	Bioactive Extract, Fraction of *Cassia Occidentalis* and Formulation	Chattopadhayay Naibedya, Pal Subhashis, Kumar Sudhir, Eppalapally Ramakrishna, Kumar Padam,	0185/NF/2017 Appl. No. 201811021504	Intarnational	**Filed**	2018	Licensed to Industry

	thereof for Bone Regeneration	Sapana, Gayen Jiaur Rahaman, Riyazuddin Mohammed, Sanyalsabiyasachi, Gurjar Anagha, **Mishra Prabhat Ranjan**, Mittapelly Naresh, Arya Kamal Ram, Kumar Brijesh, Rath Srikanta, Trivedi Arun Kumar, Maurya Rakesh					
23	4-Hydroxyisoleucine (4HIL) enriched from *Trigonella Foenum graceum*	Narender T, Rajesh K Jha, Rabi Shankar Bhatta, srikanata Kumar Rath, **Prabhat Ranjan Mishra**, Brijesh Kumar,Vaibahve, Ubba, Ashok Kumar, ramanand Prajapati, Pratibha Singh, Vikash Kumar Gond, Vikas Bajpai, Sonam Kanchan, Nikhil Rai, Arun Agarwal, Srishti Agarwal, Anjalai Mishra, Swati Rajpoot.	BD-IPU/PAT/04/2019	2019			
24	Chebulinic Acid, Ellagic acid	Narender T, Monica Sachdev, Rabi Shankar Bhatta, srikanata Kumar Rath, **Prabhat Ranjan Mishra**, Preeti Rastogi, Tripti Mishra, Ankit Kumar Agarwal, Deependra Singh, Saurabh Kumar, Bilal Ahmad Hakim, Sarvesh Kumar Verma, Arpon Biswas, Sandeep Unrandur, Sonam Kanchan	**IN** 0228NF2019	2019	Licensed to Industry 2019		

25	Formulation for treatment for osteoarthritis and joint related disorders.	Trivedi Ritu, Hingorani Lal, Bhatta, Ravi Shankar, Kothari Priyanka, Tripathi Ashish, Banala V Teja, Kumar Sudhir, Rai Divya, Sinha Shraddha, Maurya Rakesh, **Mishra Prabhat Ranjan**		2018	**Filed**		
26	Small molecule modulator targeting a rare histone modification, regulation of adipogenesis and Pharmaceutical formulation thereof	Tapas Kumar Kundu, Aditya Bhattacharya, Sourav Chatterjee, Sashidhara Koneni Venkata, Suriya Pratap Singh, Prabhat Ranjan mIshra, Aamir Nazir, Rajdeep Guha	US Patent No 18/565911	2023	**Filed**		
27	Small molecule modulator targeting a rare histone modification, regulation of adipogenesis and Pharmaceutical formulation thereof	Tapas Kumar Kundu, Aditya Bhattacharya, Sourav Chatterjee, Sashidhara Koneni Venkata, Suriya Pratap Singh, Prabhat Ranjan mIshra, Aamir Nazir, Rajdeep Guha	EP Patent No 22815524.8	2024	**Filed**		

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Membership of Scientific/Societies/other Professional bodies

- Life Member, The Society of Biological Chemist, Banalore, India (No 4268)
- Life Member, Indian Pharmaceutical Association (No. DLH/LM/0374).
- Life member Indian Society of Cell Biology (No. 2014037)
- Expert Member, Project Monitoring Committee, BIRAC, Department of Biotechnology, Govt. of India (Since 2016 to till date).
- Member, Board of Studies, Department of Pharmaceutics, Jamia Hamdard New Delhi (Since April 2018 to till date)
- Member of Technical committee (BIS) Medical biotechnology and nano-technology, Govt. of India. (Since 2012 to 2019)
- Member, Advisory Board of PhD student at Nirma University, Ahmedabad since June 2018.
- Invited Journal reviewer of various reputed international journals like ACS Applied Materials and Interfaces (ACS); Acta Biomaterialia (Elsevier); Colloids and Surfaces B: Biointerfaces (Elsevier); International Journal of Pharmaceutics (Elsevier); Antimicrobial Agents and Chemotherapy (Americal Society of Microbiology); Journal of Pharmacy and Pharmacology (Wiley), European Journal of Pharmaceutics and Biopharmaceutics (Elsevier); , Expert Opinion in Drug Delivery (Taylor and Francis), Nanomedicine (Future Medicine), etc.
- Course Coordinator (Pharmaceutics) National Institute of Pharmaceutical Education and Research Raebareli (CSIR-CDRI-mentoring Institute) (2011 to 2017)
- Reconized Ph.D supervisor of Jawaharlal Nehru University-New Delhi, Banasthali Vidyapeeth-Jaipur, Jamia Hamdard-New Delhi and AcSIR. New Delhi.
- Member, Institutional Academy of Scientific and Innovative Research (AcSIR) committee.
- In-charge, Quality Assurance Unit of the institute for GLP activity in the area of formulation development, toxicity and safety pharmacology.
- Member Academic committee, Jawaharlal Nehru University, New Delhi (JNU-CIMAP)