

Dr. PRASHANT KRISHNARAO DESHMUKH

M. Pharm., Ph. D. (Pharmaceutical Sciences)

Objective: To work at responsible position in progressive research based organization and to contribute in the field of academic and research.

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Credentials:

Google Citations: 1065

Google h-index: 16

Google i10-index: 30

Scopus Citations: 715

Scopus h-index: 13

Awards: 06

Research grants: 05 (1 Crore)

Patent: 02

Book Chapters: 03

Publications: 75

Cumulative Impact Factor: 130

Present Address:

Dr. Prashant K. Deshmukh
Ganapati Nagar, Bhag3,
Bodwad Road, Malkapur, Dist-
Buldana-443 101 (M.S.).

Permanent Address:

Dr. Prashant K. Deshmukh
'Krishnashobha', Near Bappu
Dairy, Ambika Nagar, Dabki
Road, Akola- 444 002 (M.S.).

PRESENT STATUS AND EXPERIENCE

1. Principal & Professor, Dr. Rajendra Gode College of Pharmacy, Malkapur, Dist-Buldana, 443101, Maharashtra.
2. MAHE, Manipal approved Ph. D. Co-guide.
3. Approved Associate Professor, P.G. Teacher in Pharmaceutics (KBCNMU, Jalgaon) at H. R. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur. Dist- Dhule 425405 Maharashtra.
4. KBCNMU, Jalgaon approved Ph. D. guide.
5. Hon. VC nominated Member, Board of studies (Pharmaceutics) under the faculty of science and technology, KBCNMU, Jalgaon.
6. NBA Process Coordinator
7. PG Incharge & Head, Department of Pharmaceutics, HRPIPER, Shirpur.
8. Guided 33 M. Pharm students and presently guiding 01 Ph. D. and 01 P.G. students for major dissertations.
9. Total teaching/research experience of 15 years.
10. Chief Coordinator, AICTE funded Industry Institute Partnership Cell (IIPC)
11. Industrial experience of 01 year at Hindustan Herbal Pvt. Ltd. Akola.

PROFESSIONAL AFFILIATIONS AND APPROVALS

Professional Affiliations:

1. Life Member of APTI (MA-LM/840)
2. Life Member of Community Pharmacists of India (MH/LM/006)
3. Registered Pharmacist- Maharashtra State Pharmacy Council. (Reg. No. 72115)

University Approvals:

- Assistant Professor in Pharmaceutics, NMU, Jalgaon. (Letter No. NMU/ 18/648/2008 from 02/04/2007 to 22/04/2018)
- Post Graduate teacher in Pharmaceutics (Letter No. NMU/ 11/PGR/Pharm/4080/2011 from 01/12/2011 to till date)
- Ph.D. guide under the faculty of Science & Technology (Letter No. NMU/ 11/PhD/581/2018 from 08/09/2017 to till date)
- Associate Professor in Pharmaceutics, KBCNMU, Jalgaon. (Letter No. KBCNMU/ 18/1049/2008 from 23/04/2018 to till date)

Personal Details:

Gender: Male

Nationality: Indian

Marital Status: Married

DOB: 01/08/1981

EDUCATIONAL QUALIFICATIONS

Ph. D. (2015) – R. C. Patel institute of Pharmaceutical Education and Research, Shirpur, (North Maharashtra University, Jalgaon, Maharashtra)

Research Topic: “Formulation and evaluation of novel ophthalmic drug delivery system”

Supervisor: Dr. S. G. Gattani, Professor, SRTMU, Nanded

Master of Pharmacy (2004-2006) – 8.66 out of 10 CGPA scale with specialization in Pharmaceutics from College of Pharmaceutical Sciences, Berhampur, (Biju Patnaik University of Technology, Rourkela) Orissa.

Research Topic: “Design and evaluation of oil entrapped floating drug delivery system”

Supervisor: Dr. Ch. N. Patra, Professor, RIPS, Berhampur

Bachelor of Pharmacy (1999-2003) – 63.84 % from P. D. W. College of Pharmacy, Yavatmal, Amaravati University, Maharashtra

Qualified GATE 2003 with 90.98 percentile, IIT, Chennai

CONFERENCES ORGANIZED/JOURNAL EDITOR

Conferences organized:

1. Organized Scifinder sponsored one-day National level seminar “Innovative concepts & methodologies in pharmaceutical research (ICMPR2015)” on 4th March 2015 at HRPIPER, Shirpur.
2. Organized Phoenix India Solutions sponsored one-day National level conference “Innovative concepts & methodologies in pharmaceutical research (ICMPR-II)” on 19th March 2016 at HRPIPER, Shirpur.
3. Coordinated DST Sponsored 5 Days INSPIRE internship camp for 11th std science students from February 15 – 27, 2016.
4. Coordinated DST Sponsored 5 Days INSPIRE internship camp for 11th std science students from September 27 to October 1, 2016.
4. Coordinated DST Sponsored 5 Days INSPIRE internship camp for 11th std science students from January 02 to January 6, 2018.
5. Co-coordinator of 3rd one-day National level seminar “Innovative concepts & methodologies in pharmaceutical research (ICMPR2018)” on 10th March 2018 at HRPIPER, Shirpur.

Journal Editorial Board member:

1. Austin Journal of Biosensors and Bioelectronics
2. Nanomedicine and Nanotechnology Journal

Languages Known:

English
Hindi
Marathi

Promotions till date:

Lecturer- Assistant Professor
Asst. Prof – Asso. Prof.
Asso. Prof –Professor
Professor - Principal

AWARDS

1. Troikaa Pharmaceuticals Ltd. and Department of Science and Technology sponsored 'Rajinibhai V. Patel' **Best Research Guide Award** for National level competition '**Pharminnova**', **2013-14**.
2. Troikaa Pharmaceuticals Ltd. and Department of Science and Technology sponsored 'Rajinibhai V. Patel' **Best Research Guide Award** for National level competition '**Pharminnova**', **2014-15**.
3. Troikaa Pharmaceuticals Ltd. and Department of Science and Technology sponsored 'Rajinibhai V. Patel' **Best Research Guide Award** for National level competition '**Pharminnova**', **2015-16**.
4. **Best Teacher Award 2016**, awarded by KBC North Maharashtra University, Jalgaon.
5. **BIRAC SHIRSTI GYTI Appreciation Award 2017** with sum of Rs. 100,000.00 for "Fabrication of Novel GelatinHybrid Microsponge (SIFROGEL): A socioeconomic Approach" with award letter no. BIRAC SRISTI PMU – 2017/025.
6. **Research Excellence Award (Publications) 2017-18**, awarded by KBC North Maharashtra University, Jalgaon.

RESEARCH GRANTS

Total funding amount as a PI & Co-PI: 100 Lakh (1 Crore)

1. **Co-Principal Investigator: Rs. 7 Lakh under Research Promotion Scheme of AICTE**, New Delhi for the project entitled, 'Design development and evaluation of nanotechnology based brain targeted drug delivery system'. (8-133/RIFD/RPS/POLICY-3/2013-14)
2. **Principal Investigator: Rs. 47 Lakh under Nanomission scheme, DST**, New Delhi for the project entitled, 'Synthesis and characterization of 2D-carbon backbone based hybrid magnetic nanocomposites for selective tumour theranostics'. (SR/NM/NS-1302/2014(G))
3. **BIRAC SHIRSTI GYTI Appreciation Award 2017 with sum of Rs. 1 Lakh.**
4. **Co-Principal Investigator: Rs. 27 Lakh under Extramural Research Grant**, ICMR for the project entitled, 'Fabrication of surface decorated graphene oxide nanocomposites for label free prognosis of Alzheimer's disease'. (5/4-5/159/Neuro/2016-NCD-1).
5. **Principal Investigator: Rs. 18 Lakh under MODROB (Aspiring Institutes)**, 'Up gradation of existing facilities of

nanotechnology unit' (F-NO 84-45/RIFD/MODROB/RURAL/POLICY-1/2019-20)

Skill Sets

Administrative and Academic:

- NMU Approved Assistant Professor
- NMU Approved P G Teacher
- NMU recognized Ph. D. Guide
- VC nominated Member, Board of studies, under the faculty of science and technology
- Head, Department of Pharmaceutics
- Guided 33 M. Pharm students
- Supervised 20 B. Pharm students
- Total 15 Years of teaching/research experience
- Chief Coordinator, AICTE funded Industry Institute Partnership Cell (IIPC)
- Worked as

HOD (Pharmaceutics)
Post-Graduate In-charge,
Placement In-charge,
NBA coordinator,
Store In-charge,

INVITED TALKS/RESOURCE PERSON

1. 'Ethical, safety and regulatory issues in nanomedicines', AICTE, New Delhi sponsored, 'Two days national seminar on Pharmaceutical Nanotechnology' at Sudhakar Rao Naik Institute of Pharmacy, Pusad (Maharashtra) held on 25th and 26th September 2009.
2. 'New drug development & approval processes', N. M. Padalia College of pharmacy, Ahmadabad, Gujarat.
3. 'Nanoarchitectonics in Pharmaceutical Research', JSPM's Rajarshi Shahu College of Pharmacy and Research, Tathawade, Pune.
4. 'Nanoarchitectonics in Pharmaceutical Research', AICTE, New Delhi sponsored, 'Faculty Development Programme on Nanonisation techniques and Pharmaceutical Product Development: Advances, Opportunities and Challenges', Bharti Vidyapeeth Collage of Pharmacy, Kolhapur 6th Dec. 2013.
5. 'Nanoarchitectonics: Theranostic Applications', AICTE, New Delhi sponsored, 'Faculty Development Programme on Advances in polymer based drug delivery systems', Satara Collage of Pharmacy, Satara 7th Dec. 2013.
6. 'Artificial Neural Network: Application in Pharmaceutical Research', University of Pune Sponsored 'State Level Seminar on Optimization Techniques in Pharmaceutical Formulations and Processing', Sanjivani College of Pharmacy, Kopergaon 14 Nov. 2014.
7. 'Nanoarchitectonics in pharmaceutical research', Sanjivani College of Pharmacy, Kopergaon 20 Sep. 2015.
8. 'Pharmaceutical Nanotechnology', One-day state level seminar on 'Recent approaches in nanotechnology', Matoshri college of Pharmacy, Nashik, 25 March 2016.
9. 'Nanotechnology', Sanjivani College of Pharmacy, Kopergaon 14 Oct. 2016.
10. 'Nanoarchitectonics' at a one-week short term training programme in collaboration with UGC-HRDC, Savitribai Phule Pune University, Pune on, "Advances in Nanoscience and Nanotechnology", held at Department of Physics of A.S. Mandal's, Arts and Commerce College Trust's, C. H. C. Arts, S. G. P. Commerce, and B. B. J. P. Science College, Taloda, 22 Dec. 2017.
11. 'NBA Process' at Hi-tek college of Pharmacy, Padoli naka, Chandrapur, 30 Dec. 2017.
12. 'Nanoarchitectonics' at SPPU sponsored two days state level seminar on 'Industrial innovations and transitions in advanced

Instrument handling:

- Microwave Synthesizer (CEM corporation, USA)
- FTIR
- Particle Size Analyser (Particulate System, Micromeritics, USA)
- Rotary Vacuum Evaporator
- HPLC
- UV
- Texture Analyser (Brookfield)
- Tablet Compression Machine (Karnavati, Mumbai) etc.

drug delivery system for drug discovery and development', held at RMDIPER, Chinchwad, Pune, 9 Feb. 2019.

13. 'Nanoarchitectonics: Basics and Applications', AICTE sponsored STTP (FDP), Slot – 3 held at Roland COP, Berhampur, Orissa, 25 May 2021.
14. 'From nature to nanotechnology', AICTE sponsored STTP (FDP), Slot – 1 held at Bharati Vidyapith COP, Kolhapur, 27 July 2021.
15. 'Funding Opportunities & Writing a Good Research Proposal', AICTE sponsored STTP (FDP), Slot – 2 held at RCPIPER, Shirpur, 07 August 2021.
16. 'From nature to nanotechnology', AICTE sponsored STTP (FDP), Slot – 2 held at Bharati Vidyapith COP, Kolhapur, 09 August 2021.
17. 'Inculcating Professionalism', AICTE sponsored STTP (FDP), Slot – 3 held at RSCOP, Buldana, 12 August 2021.
18. 'From nature to nanotechnology', AICTE sponsored STTP (FDP), Slot – 4 held at Bharati Vidyapith COP, Kolhapur, 26 August 2021.

RESEARCH COLLABORATIONS

'Use of diatoms for self disappearing wound dressing' with Dr. P. R. Puranik, Head, Department of Biotechnology, School of Life Sciences (Ref - <http://nmu.ac.in/sols/en-us/research/researchcollaborations.aspx>).

Status: Work completed Patent filed to IPO, India (323/MUM/2014)

AREA OF INTREST

- Synthesis of nanomaterials and its use as drug delivery carrier
- Development of 2 D Carbon backbone based nanomaterials for cancer theranostics.
- Synthesis and surface modification of polymeric and inorganic nanomaterials for targeted disease condition.
- Design and development of robust methods for synthesis and modification of graphene based materials and their biomedical applications
- Use of Nanoarchitronics and Artificial Neuronal Network in Pharmaceutical Sciences

PATENTS

1. Self-disappearing wound dressing and method of preparation (323/MUM/2014)
2. Graphene oxide nanocomposite biosensor, method of

Computational skills:

MS word

power point

excel

computational softwares etc.

preparing same and uses thereof (202121003034)

3. Graphene quantum dot biosensor, method of preparing same and uses thereof (202121003033)

BOOKS/CHAPTERS

1. Contributed a **Chapter** entitled 'Magnetomicelles: Theranostic Applications' in "**Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**" (Taylor & Francis, CRC Group Publishers, March 2015).
2. Contributed a **Chapter** entitled 'Antibody mediated diagnosis of biomolecules' in '**Nanobiosensors for Biomolecular Targeting**' (Elsevier Publishers, April 2018).
3. Contributed a **Chapter** entitled 'Vesicular carriers for direct nose to brain drug delivery' in '**Direct Nose-to-Brain Drug Delivery**' (Elsevier Publishers, June 2021).

PUBLICATIONS (NATIONAL/INTERNATIONAL)

Cumulative Impact Factor (Thomson Reuters): 130

1. "One step synthesis approach of mesoporous silica packed with graphene oxide nanosheet: Characterisation and drug release aspects", **Prashant K. Deshmukh**, Sameer H. Lakade, Umesh R. Jaiswal, Minal T. Harde & Mahesh P. More, **Materials Technology**, DOI: **10.1080/10667857.2021.1972689 (I.F. 3.84)**
2. "Green synthesis of Fe-doped Ag-loaded reduced graphene oxide ternary nanocomposite for efficient photocatalytic degradation of toxic dyes", N Nangare, S Landge, AG Patil, RS Tade, **PK Deshmukh**, PO Patil, **Advances in Natural Sciences: Nanoscience and Nanotechnology** **12 (3), 035004**
3. "Development of cross-linked collagen/pullulan ocular film for sustained delivery of Besifloxacin using novel spin-coating technique", MP More, S Patil, S Ghodke, PO Patil, R Jain, P Dandekar, **PK Deshmukh**, **Journal of Materials Research**, **1-15 (I.F. 3.08)**
4. "Quality by design approach for the synthesis of graphene oxide nanosheets using full factorial design with enhanced delivery of Gefitinib nanocrystals", MP More, **PK Deshmukh**, **Materials Research Express** **8 (7), 075602 (I.F. 2.62)**
5. "Eco-friendly synthesis of surface grafted Carbon nanotubes from sugarcane cubes for development of prolonged release drug delivery platform", Rahul Narkhede, Mahesh More, Swapnil Patil, Pravin Patil, Ashwini Patil, **Prashant Deshmukh**, **International Journal of Nano Dimension** **12 (3), 211-221**
6. "Surface architected metal organic frameworks-based biosensor for ultrasensitive detection of uric acid: Recent advancement and future perspectives", Sopan N. Nangare, Premnath M. Sangale, Ashwini G. Patil, Sai HS. Boddu,

Examiner:

- North Maharashtra University, Jalgaon
- Shivaji University, Kolhapur
- Savitribai Phule University, Pune
- Gondawana University, Gadchiroli
- Swami Ramanand Teerth Marathwada University, Nanded
- SVKM's NMIMS, Mumbai

- Prashant K. Deshmukh**, Namdeo R. Jadhav, **Microchemical Journal**, Volume 169, October 2021, 106567. (I.F. 4.82)
7. "Electrostatic deposition assisted preparation, characterization and evaluation of chrysin liposomes for breast cancer treatment", **Prashant K Deshmukh**, Rakesh E Mutha, Sanjay J Surana, **Drug development and industrial pharmacy**, <https://doi.org/10.1080/03639045.2021.1934873> (I.F. 3.22)
 8. "Fabrication of N-doped graphene@TiO₂ Nanocomposites for its adsorption and absorbing performance with facile recycling", Sopan Nangare, Rahul Tade, Ashwini Patil, **Prashant Deshmukh**, Pravin Patil, **Nano Biomedicine and Engineering**, 13(2):2021 (Accepted) (I.F. 1.28)
 9. "A meticulous overview on drying-based (spray-, freeze-, and spray-freeze) particle engineering approaches for pharmaceutical technologies", Sagar Pardeshi, Mahesh More, Pritam Patil, Chandrakantsing Pardeshi, **Prashant Deshmukh**, Arun Mujumdar, Jitendra Naik, **Drying Technology**, 1-45 (I.F. 2.98)
 10. "Recent advances in phytochemical based Nano-formulation for drug resistant Cancer", Mahesh P More, Sagar R Pardeshi, Chandrakantsing Pardeshi, Gaurav A Sonawane, Mahesh N Shinde, **Prashant K Deshmukh**, Jitendra B Naik, Abhijeet D Kulkarni, **Medicine in Drug Discovery**, 100082
 11. "One-pot development of spray dried cationic proliposomal dry powder insufflation: Optimization, characterization and bio-interactions", AB Shreya, A Pandey, AN Nikam, PO Patil, R Sonawane, **PK Deshmukh**, **Journal of Drug Delivery Science and Technology**, 61, 102298. (I.F. 2.73)
 12. "Black Phosphorus as Multifaceted Advanced Material Nanoplatfoms for Potential Biomedical Applications", Abhijeet Pandey, Ajinkya N Nikam, Gasper Fernandes, Sanjay Kulkarni, Bharath Singh Padya, Ruth Prassl, Subham Das, Alex Joseph, **Prashant K Deshmukh**, Pravin O Patil, Srinivas Mutalik, **Nanomaterials** 11 (1), 13. (I.F. 4.32)
 13. "Computational studies and biosensory applications of graphene-based nanomaterials: a state-of-the-art review", More, Mahesh P; **Deshmukh, Prashant K**; **Nanotechnology**, 31,43, 432001. (I.F. 3.55)
 14. "Green synthesis of graphene based nanocomposite for sensing of heavy metals", JH Patil, MP More, MR Mahajan, AG Patil, **PK Deshmukh**, PO Patil, **Journal of Pharmaceutical and Biological Sciences** 7 (2), 56-62
 15. "Recent Advancement in Bio-precursor derived graphene quantum dots: Synthesis, Characterization and Toxicological Perspective", Rahul S Tade, Sopan N Nangare, Ashwini G Patil, Abhijeet Pandey, **Prashant K Deshmukh**, Dilip R Patil, Tanisha N Agrawal, Srinivas Mutalik, Arun M Patil, Mahesh P

Awards:

- BIRAC SHIRSTI GYTI
Appreciation Award 2017
- Best Teacher Award 2016
- Best Research Guide Award
2015-16
- Best Research Guide Award
2014-15
- Best Research Guide Award
2013-14

- More, Sanjay B Bari, Pravin O Patil, **Nanotechnology**, **29,31, 292001. (I.F. 3.55)**
16. "Ecofriendly peanut skin extracts mediated in situ fabrication of rGO@ AgNCs for degradation of dyes", KV Patel, SS Mahale, **PK Deshmukh**, PO Patil, **Journal of Pharmaceutical and Biological Sciences**, **7 (2), 63-66**
 17. "Development of amine-functionalized super paramagnetic iron oxide nanoparticles anchored graphene nanosheets as a possible theranostic agent in cancer metastasis" Mahesh P. More, **Prashant Deshmukh**, **Drug delivery and translational research** **10 (4), 862-877 (I.F. 3.11)**
 18. "Heterogeneous Surface Architected Metal Organic Frameworks for Cancer Therapy, Imaging and Biosensing: A State of Art Review", Abhijeet Pandey, Namdev Dhas, **Prashant Deshmukh**, Carlos Caro, Pravin Patil, Maria Luisa García Martin, Bharath Padya, Ajinkya Nikam, Tejal Mehta, Srinivas Mutalik, **Coordination Chemistry Reviews** **409, 213212 (I.F. 13.47)**
 19. "Fabrication and characterization of colon specific eudragit coated graphene oxide microsphere for sustained delivery of tramadol hydrochloride", MP More, GB Patil, SD Thakare, PO Patil, AG Patil, **PK Deshmukh**, **Polymer-Plastics Technology and Materials** **59 (6), 606-618 (I.F. 1.70)**
 20. "Synthesis of mesoporous alumina: an impact of surface chemistry on release behavior", SH Lakade, MT Harde, **PK Deshmukh**, **Particulate Science and Technology** **38 (8), 1035-1041 (I.F. 1.42)**
 21. "Graphene-based nanocomposites for sensitivity enhancement of surface plasmon resonance sensor for biological and chemical sensing: A review", Pravin O. Patil, Gaurav R. Pandey, Ashwini G. Patil, Vivek B. Borse, **Prashant K. Deshmukh**, Dilip R. Patil, Rahul S. Tade, Sopan N. Nangare, Zamir G. Khan, Arun M. Patil, Mahesh P. More, **Biosensors and Bioelectronics**, **139, 111324 (I.F. 9.51)**.
 22. "Design and Development of Thiolated Graphene Oxide Nanosheets for Brain Tumor Targeting", Ajinkya N. Nikam, Mahesh P. More, Abhijeet P. Pandey, Pravin O. Patil, Ashwini G. Patil, **Prashant K. Deshmukh**, **International Journal of Polymeric Materials and Polymeric Biomaterials**, **69, 10, 611-621 (I.F. 2.12)**.
 23. "Eco-Friendly In Situ Fabrication of Reduced Graphene Oxide Gold Nanocomposites for Catalysis and Dye Degradation", Sanjay B. Bari Pravin O. Patil, Sanchita S. Mahale, Mahesh P. More, Pravin V. Bhandari, **Prashant K. Deshmukh**, **Russian Journal of Physical Chemistry**, **A 92**

- (13), 2750–2756(I.F. 0.58).
24. “Development of graphene-drug nanoparticle based supramolecular self assembled pH sensitive hydrogel as potential carrier for targeting MDR tuberculosis”, Mahesh P. More, Ramesh V. Chitalkar, Mahesh S. Bhadane, Sanjay D. Dhole, Ashwini G. Patil, Pravin O. Patil & **Prashant K. Deshmukh, Materials Technology Advanced Performance Materials, 34, 6, 324-335 (I.F. 1.73).**
 25. “Controlled synthesis of blue luminescent graphene quantum dots from carbonized citric acid: Assessment of methodology, stability, and fluorescence in an aqueous environment”, MP More, PH Lohar, AG Patil, PO Patil, **PK Deshmukh, Materials Chemistry and Physics, 220, 11-22. (I.F. 2.21).**
 26. “Facile green synthesis of graphene metal nanocomposites and their promising applications”, Journal of Pharmaceutical and Biological Sciences, Ashwini G. Patil, **Pravin O. Patil, Mahesh P. More, Prashant K. Deshmukh, Sanchita S. Mahale, Pravin V. Bhandari, Journal of Pharmaceutical and Biological Sciences, 6 (2), 30-38.**
 27. “Fabrication and in vitro drug release characteristics of magnetic nanocellulose fiber composites for efficient delivery of nystatin”, RS Tade, MP More, VK Chatap, PO Patil, **PK Deshmukh, Materials Research Express ,5 (11), 116102. (I.F. 1.15).**
 28. “Ecofriendly in situ fabrication of reduced graphene oxide gold nanocomposite for catalysis and dye degradation” Pravin O. Patil, Sanchita S. Mahale, Mahesh P. More, Pravin V Bhandari, **Prashant K. Deshmukh, Sanjay B. Bari. Russian Journal of Physical Chemistry (I.F. 0.581).**
 29. “Development of novel thiolated carboxymethyl-gellan gum as potential mucoadhesive polymer: Application of DoE”, Mahesh P. More, Manoj S. Bhamare, Chetan J. Bhavsar, Pravin O. Patil and **Prashant K. Deshmukh, Advanced Materials Science, Volume 2(3): 1-9, 2017.**
 30. "Development of Surface Engineered Mesoporous Alumina Nanoparticles: Drug Release Aspects and Cytotoxicity Assessment", More Mahesh, Payal Ganguly, Pandey Abhijeet, Dandekar Prajackta, Jain Ratnesh, Patil Pravin, **Deshmukh, Prashant, IET Nanobiotechnology, vol. 11, no. 6, pp. 661-668, 9 2017 (I.F. 1.558).**
 31. "Green fabrication of graphene-based silver nanocomposites using agro-waste for sensing of heavy metals Assessment of antibacterial potential and biomedical application", Patil Pravin, Bhandari Pravin, **Deshmukh, Prashant, Mahale Sanchita, Patil Ashwini, Bafna Harshada,**

- Patel Kajal, Bari, Sanjay, **Research on Chemical Intermediates**, July 2017, Volume 43, Issue 7, pp 3757–3773 (I.F. 1.8).
32. "Fabrication and characterization Graphene based hybrid nanocomposite: Assessment of antibacterial potential and biomedical application", More Mahesh, Patil Mahendra, Pandey Abhijeet, Patil Pravin, **Deshmukh, Prashant, Artificial Cells, Nanomedicine, and Biotechnology**, 2017 Dec;45(8):1496-1508 (I.F. 5.60).
33. "Fabrication and Characterization of Shape Memory Polymers Based Bioabsorbable Biomedical Drug Eluting Stent" Sonawane Vratika, More Mahesh, Pandey Abhijeet, Patil Pravin, **Deshmukh Prashant, Artificial Cells, Nanomedicine, and Biotechnology**, 2017 Dec;45(8):1740-1750 (I.F. 5.60).
34. "Optimization of desolvation process for fabrication of lactoferrin nanoparticles using quality by design approach", A. P. Pandey, M. P. More, K. P. Karande, R. V. Chitalkar, P. O. Patil & **P. K. Deshmukh, Artificial Cells, Nanomedicine, and Biotechnology**, 2017 Sep;45(6):1-14 (I.F. 5.60).
35. Facile Green Synthesis of Reduced Graphene Oxide and Fabrication of Layer by Layer Self-Assembled rGO@Chitosan@rGO@Folic Acid Nanocomposite for Possible Biosensing Application P. O. Patil, N. M. Girase, A. G. Patil, **P. K. Deshmukh**, and S. B. Bari, **Journal of Bionanoscience Vol. 10, 1–8, 2016.**
36. "Magnetically Responsive Siliceous Frustules for Efficient Chemotherapy", Vivek S. Javalkote, Pravin R. Puranik, Abhijeet P Pandey, **Prashant K. Deshmukh, Journal of Material Science and Engineering C, 50 (2015) 107–116 (I.F. 2.72).**
37. "Nanostructured Lipid Carriers as a Potential Vehicle for Carvedilol Delivery: Application of Factorial Design Approach", Ganesh B. Patil, Nandkishor D. Patil, Prashant K. Deshmukh, Pravin O. Patil, Sanjay B. Bari, **Artificial Cells, Nanomedicine, and Biotechnology, 2016; 44: 12–19 (I. F. 2.024)**
38. "Sonication-assisted drug encapsulation in layer-by-layer self-assembled gelatin-poly (styrenesulfonate) polyelectrolyte nanocapsules: process optimization", Abhijeet P Pandey, Saurabh S Singh, Ganesh B Patil, Pravin O Patil, Chetan J Bhavsar, **Prashant K Deshmukh, Artificial Cells, Nanomedicine, and Biotechnology, April 1, 2014. (doi:10.3109/21691401.2014.898646) (I. F. 2.024)**
39. "Graphene oxide based magnetic nanocomposites for efficient treatment of breast cancer", Nilesh S. Chaudhari, Abhijeet P.

- Pandey, Pravin O. Patil, Avinash R. Tekade, Sanjay B. Bari, **Prashant K. Deshmukh**, *Journal of Material Science and Engineering C*, Volume 37, 1 April 2014, Pages 278–285 (**I. F. 2. 72**)
40. “Simplified Sol-Gel Method for Synthesis of Mesoporous Alumina”, Mahesh P. More, Pravin O. Patil, Abhijeet P. Pandey, Dilip A. Patil, **Prashant K. Deshmukh**, *Micro & Nano Letters*, Volume 8, Issue 12, December 2013, p. 895 – 898 (**I. F. 1. 34**)
 41. “Nanoarchitectonics in Cancer Therapy and Imaging Diagnosis”, Abhijeet P. Pandey, Nayandeep M. Girase, Mahendra D. Patil, Pravin O. Patil, Dilip A. Patil, **Prashant K. Deshmukh**, *Journal of Nanoscience and Nanotechnology*, 14, 828-840 (2014) (**I. F. 1. 48**)
 42. “Fabrication of Layer-by-Layer Self Assembled Drug Delivery Platform for Prednisolone”, Ganesh B. Patil, Ketan P. Ramani, Abhijeet P. Pandey, Mahesh P. More, Pravin O. Patil, **Prashant K. Deshmukh**, *Polymer-Plastics Technology and Engineering*, 52(15),1637-1644, 2013 (**I. F. 1. 56**)
 43. “Applying Quality by Design (QbD) concept for Fabrication of Chitosan Coated Nanoliposomes”, Abhijeet P. Pandey, Kiran M. Karande, Raju O. Sonawane, **Prashant K. Deshmukh**, *Journal of Liposome Research*, 2014 Mar;24(1):37-52 (**I. F. 1. 90**)
 44. “Graphene based nanomaterials: Diagnostic applications”, Abhijeet P. Pandey, Kiran M. Karande, Mahesh P. More, Surendra G. Gattani, **Prashant K. Deshmukh**, *Journal of Biomedical Nanotechnology*, 10, 179-204 (2014) (**I. F. 5. 29**)
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PARTICIPATION IN NATIONAL & INTERNATIONAL CONFERENCES AND TRAININGS

- 2019-** A.P.T.I. National Convention “Holistic contribution of pharmacy gurus for future global leaders – vision 2047”, 11-13 Oct. 2019 (Deharadun)
- 2016-** Organized Phoenix India Solutions sponsored one day national level conference “Innovative concepts & methodologies in pharmaceutical research-II (ICMPR2016)” on 19th March 2016 at HRPIPER, Shirpur
- 2016-** Co-ordinated DST sponsored “INSPIRE internship camp”, HRPIPER, Shirpur, 15-19 Feb. 2016.
- 2015-** RSC symposium on “Frontiers of advances in chemistry and technology-2015 ”, North Maharashtra University, Jalgaon, 11-12 Dec. 2015
- 2015-** A.P.T.I. National Convention “Strategic approached to strengthen academic industrial collaboration”, 9-10 Oct. 2015 (Indore)
- 2014-** Organized Scifinder sponsored one day national level conference “Innovative concepts & methodologies in pharmaceutical research (ICMPR2015)” on 4th March 2015 at HRPIPER, Shirpur
- 2013-** AICTE, New Delhi sponsored, ‘Faculty Development Programme on Nanonisation techniques and Pharmaceutical Product Development: Advances, Opportunities and

- Challenges', Bharti Vidyapeeth Collage of Pharmacy, Kolhapur 6th Dec. 2013.
- 2013-** AICTE, New Delhi sponsored, 'Faculty Development Programme on Advances in polymer based drug delivery systems', Satara Collage of Pharmacy, Satara 7th Dec. 2013.
- 2013-** Attended Shivaji University Kolhapur sponsored Staff Development programme on "Drug regulatory affairs and intellectual property rights" at Shree Santkrupa College of Pharmacy, Ghogaon, August 17, 2013.
- 2012-** Attended UGC-SAP Sponsored national conference on "Recent challenges in pharmaceutical sciences and technology" at North Maharashtra University, Jalgaon, March 28, 2012.
- 2012-** Attended 4th conference on "Recent advances in polymer technology", at North Maharashtra University, Jalgaon, March 2-3, 2012.
- 2011-** Attended National conference on "Recent challenges in pharmaceutical sciences and technology" at Department of chemical technology, North Maharashtra University, Jalgaon, March 19, 2011.
- 2010-** Attended two days National workshop on "Teaching Skills in Physical Pharmacy", at SVKM's Narasi Monaji Institute of Management of Science, School of Pharmacy, Sawalde, Shirpur
- 2010-** Coordinator of scientific committee for two days AICTE sponsored national level seminar on 'Current challenges and novel approaches in pharmacological research' at H.R. Patel Institute of Pharmaceutical Education and Research, Shirpur, held on 23rd & 24th October 2010.
- 2009-** AICTE, New Delhi sponsored, 'Two days national seminar on Pharmaceutical Nanotechnology' at Sudhakar Rao Naik Institute of Pharmacy, Pusad (Maharashtra) held on 25th and 26th September 2009.
- 2008-** Member of scientific committee for two days AICTE sponsored national level seminar on 'Current trends in novel drug delivery systems' at R.C. Patel Institute of Pharmaceutical Education and Research, Shirpur, held on 23rd & 24th August 2008.
- 2008-** Participated in the TIFAC, DST (Govt. of India), New Delhi sponsored one day Workshop on Patent Awareness held at N M U, Jalgaon. 4th August, 2008.
- 2007-** Attended Two Weeks AICTE Sponsored Staff Development (SDP) Programme Organized by SPCOP, Nagpur- 441 110 (M.S.) on "Emerging trends in advanced drug delivery system" From 26th Nov. to 6th December 2007.
- 2005-** Attended 10th A.P.T.I. National Convention, 2005 (Nagpur).

PAPERS PRESENTED/ABSTRACTS PUBLISHED

- 2019-** Paper presented in A.P.T.I. National Convention “Holistic contribution of pharmacy gurus for future global leaders – vision 2047”, 11-13 Oct. 2019 (Deharadun)
- 2009-** Abstract Published in ‘**International symposium on Clinical pharmacy education: Sharing the U.S. experiences**’ held at Gurunanak College of Pharmacy, Nagpur, entitled ‘Fixed dose combinations: rational or irrational’, 27th Nov. 2009.
- 2009-** Abstract Published in ‘**International symposium on Clinical pharmacy education: Sharing the U.S. experiences**’ held at Gurunanak College of Pharmacy, Nagpur, entitled ‘Evaluation of medication adherence pattern of rural patients with Diabetes mellitus’, 27th Nov. 2009.
- 2008-** Abstract published in DST Sponsored three days National Level Workshop on **Coating Technology of Solid Dosage Forms** held at Nagpur entitled “Molecular Modeling Study of B-Cyclodextrin” 17th October, 2008.
- 2008-** Abstract published in **International Conference on Drug Discovery and Nanotechnology** at Nanded (MS), Development and Evaluation of Floating Drug Delivery for Ranitidine Hydrochloride, Jan 27-28, 2008.
- 2008-** Abstract published in **International Conference on Drug Discovery and Nanotechnology** at Nanded (MS), Effect of hydroxypropylated- β -cyclodextrin and pH on solubility of telmisartan, Jan. 27-28, 2008.
- 2007-** Abstract published in **59th Indian Pharmaceutical Congress 2007** held at Varanasi “Exploring a Need of Pilot Plant in Current Scenario”, 2007.
- 2006-** Abstract published in **58th Indian Pharmaceutical Congress** held at Mumbai, “Sales of Cosmetics through Pharmacy? Beneficial to Community”, Dec. 2006.
- 2005-** Abstract published in **57th Indian Pharmaceutical Congress**, Hyderabad, Formulation and evaluation of calcium alginate microspheres prepared by sequential and simultaneous method.

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