Name of Faculty: - Dr. Sagar Ramlal Pardeshi

Qualification	M. Pharm., Ph.D.
Designation	Assistant Professor in Pharmacy
Specialization	Pharmaceutics
Academic Experience	3 Years • St. John Institute of Pharmacy and Research, Palghar (July, 2022 onwards).
Industry Experience	1.7 Years • Trainee F&D – Evonik Degussa, Mumbai | May 2017 – Dec 2017 • Trainee ADL – Bliss GVS Pharma, Mumbai | June 2016 – April 2017
Research Experience	04 Years • Senior Research Fellow / Junior Research Fellow (DST-SERB Project) – UICT, KBCNMU, Jalgaon | June 2019 – June 2022. • Research Assistant (TEQIP-III Project) – UICT, KBCNMU, Jalgaon |May 2018 – May 2019.
Areas of Interest	• Drug Delivery • Nanotechnology
Subjects Taught	Industrial Pharmacy, Drug delivery systems, Physical Pharmaceutics II, Pharmaceutical Quality Assurance, and Computer Aided Drug Delivery System
Presentations	International : – 01 National : – 05
Publications	International: 29 1. Gholap, Amol, **Sagar Pardeshi**, Prabhanjan Giram, Sopan Nangare, Shrushti Sodha, Harshad Kapare, Mahesh More et al. "Breathing new life nanomedicines for pulmonary drug delivery: targeting approaches, experimental models, and regulatory aspects." Beni-Suef University Journal of Basic and Applied Sciences, Springer, 14, no. 1 (2025): 1-43. **(IF 2.5)**. 2. Chopade, Nishant B., Mahesh P. More, **Sagar Pardeshi**, Amol Gholap, Jitendra Naik, Raju R. Thenge, Minal T. Harde, and Prashant K. Deshmukh. "Hydrothermal Synthesis and Characterization of Hollow Mesospherical Alumina Nanoconstructs for Enhanced Delivery of Sorafenib Tosylate." BioNanoScience, Springer, 15, no. 2 (2025): 256. **(IF 3.2)**

	3. Pawar, Rohit V., Pravin O. Patil, Mohammad Khalid, Shadma Wahab, Mohamad Taleuzzaman, **Sagar R. Pardeshi**, and Zamir G. Khan. "Design of a Facile Fluorescent Nano-Sensor Using Nitrogen and Sulfur Dual Doped Carbon Quantum Dots for Carbendazim Detection: A Turn-Off-On Approach for Food Safety and Environmental Monitoring." Journal of Fluorescence, Springer (2025): 1-16 **(IF 3.2)**. 4. Gholap, Amol D., Pankaj R. Khuspe, **Sagar R. Pardeshi**, Md Jasim Uddin, Ushasi Das, Navnath T. Hatvate, Satish Rojekar et al. "Achieving Optimal Health With Host-Directed Therapies (HDTs) in Infectious Diseases—A New Horizon." Advanced Therapeutics, Wiley 8, no. 4 (2025): 2400169 **(IF 2.6).** 5. **Pardeshi, Sagar R**., Amol D. Gholap, Navnath T. Hatvate, Khushmita D. Gharat, Jitendra B. Naik, and Abdelwahab Omri. "Advances in dorzolamide hydrochloride delivery: harnessing nanotechnology for enhanced ocular drug delivery in glaucoma management." Discover Nano, Springer 19, no. 1 (2024): 1-27. 6. More, Mahesh P., **Sagar R. Pardeshi**, Rahul Tade, Pawan D. Meshram, Jitendra B. Naik, and Prashant K. Deshmukh. "Development of an Analytical Quality by Design RP-HPLC Method and Its Validation for Estimation of Gefitinib From Bulk, Tablet Dosage Form, and Complex Nanoformulation." Journal of AOAC International 107, no. 4 (2024): 558-570 **(IF 1.7)**. 7. Gholap, Amol D., **Sagar R. Pardeshi**, Navnath T. Hatvate, Nilesh Dhorkule, Sadikali F. Sayyad, Md Faiyazuddin, and Mohammad Khalid. "Environmental implications and nanotechnological advances in octocrylene-enriched sunscreen formulations: A comprehensive review." Chemosphere, Elsevier (2024): 142235 **(Cite score 18.1).** 8. Patil, Ankit, **Sagar Pardeshi**, Mayur Kapase, Pritam Patil, Mahesh More, Shivraj Dhole, Eknath Kole et al. "Continuous preparation of sustained release vildagliptin nanoparticles using tubular microreactor approach." Drying technology, Taylor & Francis, 42, no. 4 (2024): 661-673 **(IF 2.7).** 9. **Pardeshi, Sagar**, Popat Mohite, Tanavirsing Rajput, and Abhijeet Puri. "The Nanotech Potential of Curcumin in Pharmaceuticals: An Overview." Current Drug Discovery Technologies, Bentham, 21, no. 2 (2024): 68-85 **(Cite score 3.7).** 10. **Pardeshi, Sagar R.,** Nilesh S. Deshmukh, Darshan R. Telange, Sopan N. Nangare, Yogesh Y. Sonar, Sameer H. Lakade, Minal T. Harde et al. "Process development and quality attributes for the freeze-drying process in pharmaceuticals, biopharmaceuticals and nanomedicine delivery: A state-of-the-art review." Future Journal of Pharmaceutical Sciences, Springer, 9, no. 1 (2023): 99 **(IF 3.0).** 11. **Pardeshi, Sagar R.,** Mahesh P. More, Chandrakantsing V. Pardeshi, Prashant J. Chaudhari, Amol D. Gholap, Ankit Patil,

	Pritam B. Patil, and Jitendra B. Naik. "Novel crosslinked nanoparticles of chitosan oligosaccharide and dextran sulfate for ocular administration of dorzolamide against glaucoma." Journal of Drug Delivery Science and Technology, Elsevier, 86 (2023): 104719 **(IF 4.9).** 12. Patil, Ankit, Pritam Patil, **Sagar Pardeshi**, Preena Shrimal, Norma Rebello, Popat B. Mohite, Aniruddha Chatterjee, Arun Mujumdar, and Jitendra Naik. "Combined microfluidics and drying processes for the continuous production of micro-/nanoparticles for drug delivery: a review." Drying technology, Taylor & Francis, 41, no. 10 (2023): 1533-1568 **(IF 2.7).** 13. Kulkarni, Deepak, Rushikesh Sherkar, Chaitali Shirsathe, Rushikesh Sonwane, Nikita Varpe, Santosh Shelke, Mahesh P. More, **Sagar Pardeshi** et al. "Biofabrication of nanoparticles: sources, synthesis, and biomedical applications." Frontiers in Bioengineering and Biotechnology, Frotiers, 11 (2023): 1159193 **(IF 4.8).** 14. Gholap, Amol D., Sadikali F. Sayyad, Navnath T. Hatvate, Vilas V. Dhumal, **Sagar R. Pardeshi**, Vivek P. Chavda, and Lalitkumar K. Vora. "Drug delivery strategies for avobenzone: A case study of photostabilization." Pharmaceutics, MDPI, 15, no. 3 (2023): 1008 **(IF 5.5).** 15. **Pardeshi, Sagar R**., Mahesh P. More, Abhijeet D. Kulkarni, Chandrakantsing V. Pardeshi, Pritam B. Patil, Ankit S. Patil, Prabhanjan S. Giram et al. "Current perspectives in nanomedicine delivery for targeted ocular therapeutics." Bulletin of Materials Science, Springer, 46, no. 1 (2023): 35 **(IF 2.1).** 16. Pardeshi, Chandrakantsing V., Rucha V. Kothawade, Ashwini R. Markad, **Sagar R. Pardeshi,** Abhijeet D. Kulkarni, Prashant J. Chaudhari, Marcela R. Longhi et al. "Sulfobutylether-β-cyclodextrin: A functional biopolymer for drug delivery applications." Carbohydrate polymers, Elsevier, 301 (2023): 120347 **(IF 12.5).** 17. **Pardeshi, Sagar R.**, Aniket Nikam, Priyanka Chandak, Vijaya Mandale, Jitendra B. Naik, and Prabhanjan S. Giram. "Recent advances in PLGA based nanocarriers for drug delivery system: a state of the art review." International journal of polymeric materials and polymeric biomaterials, Taylor & Francis, 72, no. 1 (2023): 49-78 **(IF 2.5).** 18. Chopade, Nishant, Mahesh More, **Sagar Pardeshi**, Abhijeet Puri, Jitendra Naik, and Prashant Deshmukh. "Designing bilayer lipid encapsulated mesoporous Silica nanostructures: Review on structural and functional features of protocell." International Journal of Nano Dimension, ICC Press, 14, no. 3 (2023) **(IF 1.1).** 19. **Pardeshi, Sagar R.**, Mahesh P. More, Pritam B. Patil, Arun Mujumdar, and Jitendra B. Naik. "Statistical optimization of

	voriconazole nanoparticles loaded carboxymethyl chitosan-poloxamer based in situ gel for ocular delivery: In vitro, ex vivo, and toxicity assessment." Drug Delivery and Translational Research, Springer, 12, no. 12 (2022): 3063-3082 **(IF 5.5).** 20. **Pardeshi, Sagar R.,** Eknath B. Kole, Harshad S. Kapare, Sachin M. Chandankar, Prashant J. Shinde, Ganesh S. Boisa, Sanjana S. Salgaonkar et al. "Progress on thin film freezing technology for dry powder inhalation formulations." Pharmaceutics, MDPI, 14, no. 12 (2022): 2632 **(IF 5.5).** 21. **Pardeshi, Sagar,** Fouad Damiri, Mehrukh Zehravi, Rohit Joshi, Harshad Kapare, Mahendra Kumar Prajapati, Neha Munot et al. "Functional thermoresponsive hydrogel molecule to material design for biomedical applications." Polymers, MDPI, 14, no. 15 (2022): 3126 **(IF 5.5).** 22. Pardeshi, Sagar R., Harshal A. Mistari, Rakhi S. Jain, Pankaj R. Pardeshi, Rahul L. Rajput, Dhiraj S. Mahajan, and Nitin R. Shirsath. "Development and optimization of sustained release moxifloxacin hydrochloride loaded nanoemulsion for ophthalmic drug delivery: A 32 factorial design approach." Micro and Nanosystems, Bentham, 13, no. 3 (2021): 292-302 **(Cite Score 1.6).** 23. **Pardeshi, Sagar,** Mahesh More, Pritam Patil, Chandrakantsing Pardeshi, Prashant Deshmukh, Arun Mujumdar, and Jitendra Naik. "A meticulous overview on drying-based (spray-, freeze-, and spray-freeze) particle engineering approaches for pharmaceutical technologies." Drying Technology, Taylor & Francis, 39, no. 11 (2021): 1447-1491 **(IF 2.7).** 24. More, Mahesh P., **Sagar R. Pardeshi**, Chandrakantsing V. Pardeshi, Gaurav A. Sonawane, Mahesh N. Shinde, Prashant K. Deshmukh, Jitendra B. Naik, and Abhijeet D. Kulkarni. "Recent advances in phytochemical-based Nano-formulation for drug-resistant Cancer." Medicine in Drug Discovery, Elsevier, 10 (2021): 100082 **(Cite Score 10.8).** 25. Pardeshi, Chandrakantsing V., Vinit V. Agnihotri, Kusumakar Y. Patil, **Sagar R. Pardeshi,** and Sanjay J. Surana. "Mannose-anchored N, N, N-trimethyl chitosan nanoparticles for pulmonary administration of etofylline." International Journal of Biological Macromolecules, Elsevier, 165 (2020): 445-459 **(IF 8.5).** 26. **Pardeshi, Sagar,** Pritam Patil, Rahul Rajput, Arun Mujumdar, and Jitendra Naik. "Preparation and characterization of sustained release pirfenidone loaded microparticles for pulmonary drug delivery: Spray drying approach." Drying Technology, Taylor & Francis, 39, no. 3 (2020): 337-347 **(IF 2.7).** 27. Naik, J. B., **S. R. Pardeshi**, R. P. Patil, P. B. Patil, and A. Mujumdar. Mucoadhesive micro-/nano carriers in ophthalmic

	drug delivery: an overview. Bionanoscience, Springer. 2020; 10: 564–82 **(IF 3.2).** 28. Patil, Govind K., Pritam B. Patil, **Sagar R. Pardeshi**, Rahul L. Rajput, Shirish H. Sonawane, Arun Mujumdar, and Jitendra B. Naik. "Effect of process parameters on the recovery of lactose in an antisolvent acetone/acetone-ethanol mixture: A comparative study based on sonication medium." Ultrasonics Sonochemistry, Elsevier, 67 (2020): 105128 **(IF 9.7).** 29. Ige, Pradum P., **Sagar R. Pardeshi**, and Raju O. Sonawane. "Development of pH-dependent nanospheres for nebulisation-in vitro diffusion, aerodynamic and cytotoxicity studies." Drug Research 68, no. 12 (2018): 680-686 **(IF 2.1).**
Book Chapters	International: 14 1. Gholap, A.D., Khuspe, P.R., Bharati, D.K., **Pardeshi, S.R**., Ahmad, M.D., Hossain, A.S., Prajapati, B.G. and Faiyazuddin, M., 2025. Computational Neuropharmacology in Psychiatry. Computational Neuropharmacology: Fundamentals and Clinical Aspects, pp.207-244. 2. Gholap, A.D., Sawant, S.D., **Pardeshi, S.R**., Khuspe, P.R., Sayyad, S.F., Chavan, M., Hatvate, N.T., Faiyazuddin, M. and Uddin, M.J., 2024. Omics tools for determining microbial composition: a systematic review. Microbiome Engineering, pp.35-50. 3. Gholap, A.D., Sawant, S.D., **Pardeshi, S.R**., Khuspe, P.R., Sayyad, S.F., Chavan, M., Hatvate, N.T., Faiyazuddin, M. and Uddin, M.J., 2024. The role of inulin in altering the animal microbiome: a comprehensive review. Microbiome Engineering, pp.79-102. 4. **Pardeshi, S**., Gholap, A., Kapare, H., More, A., Rebello, N. and Giram, P., 2024. Coating approaches of functionalized magnetic nanoparticles for Theranostic applications. Functionalized Magnetic Nanoparticles for Theranostic Applications, pp.131-171. 5. **Pardeshi, S**., Pillai, D., Giram, P., Pardeshi, C., Gholap, A. and Naik, J., 2024. Nanocarriers for ocular drug delivery. Nanocarrier drug delivery systems. De Gruyter, Germany, pp.469-500. 6. Mohite, P., Gholap, A., **Pardeshi, S.,** Puri, A. and Rajput, T., 2024. Quality by design in pharmaceutical development: current advances and future prospects. Software and Programming Tools in Pharmaceutical Research, pp.68-107. 7. Kole, E., **Pardeshi, S.,** Mujumdar, A.S. and Naik, J., 2023. Prospects for the development of the industrial process for drying nanoformulations. In Particulate drying (pp. 131-150). CRC Press. 8. **Pardeshi, S.R.,** Giram, P.S., More, M.P., Patil, N.B., Patil, P.B., Pardeshi, C.V., Deshmukh, P.K. and Naik, J.B., 2023. Gold

	Nanoparticles: From Synthesis to Theranostic Applications and Clinical Scenario. In Nanomaterial-Based Drug Delivery Systems: Therapeutic and Theranostic Applications (pp. 269-294). Cham: Springer International Publishing. 9. Patel, D., Talele, D., Khunt, D. and **Pardeshi, S**., 2023. Patenting nanomaterials: regulatory aspects. In Nanomaterial-Based Drug Delivery Systems: Therapeutic and Theranostic Applications (pp. 369-380). Cham: Springer International Publishing. 10. **Pardeshi, S.,** Gholap, A., More, M., Togre, N., Rebello, N. and Giram, P., 2023. Dendrimers based antibacterial and antiviral materials. In Antibacterial and Antiviral Functional Materials, Volume 1 (pp. 139-169). American Chemical Society. 11. Gholap, A., **Pardeshi, S.** and Giram, P., 2023. Preparation, antibacterial and antiviral activity measurements and detection methods. In Antibacterial and Antiviral Functional Materials, Volume 1 (pp. 33-64). American Chemical Society. 12. Musale, S., **Pardeshi, S**., Sengupta, P., Patil, M. and Giram, P., 2023. Functionalized nanofibers for antimicrobial applications. In Functionalized Nanofibers (pp. 167-209). Elsevier. 13. **Pardeshi, S.R**., More, M.P., Pagar, R., Kole, E.B., Patil, T.S., Giram, P.S., Pardeshi, C.V., Mandpe, S.R., Deshmukh, P.K., Patil, P.B. and Naik, J.B., 2023. Importance of nanomedicine in human health. In Green sustainable process for chemical and environmental engineering and science (pp. 3-33). Elsevier. 14. Gholap, A.D., **Pardeshi, S.R**., Khuspe, P.R., Sayyad, S.F., Chavan, M., Hatvate, N.T., Faiyazuddin, M. and Uddin, M.J., 2024. Manipulating the rhizosphere microbiome for plant health. In Microbiome Engineering (pp. 175-193). CRC Press.
Research Grants	1. Project Title: Combined Microfluidic and Drying Process for Continuous Fabrication of Mannosylated DPI Formulation for Tuberculosis Authority: Aerosol Society, UK Amount: £5,000 | Duration: 2 Years
Professional Memberships	1. Regd. Pharmacist, No.163849 with Maharashtra State Pharmacy Council 2. Indian Society for Technical Education (Life Member) 3. Indian Pharmaceutical Association (Life Member)
Achievements	1. Qualified GPAT & NIPER (2014) 2. 2nd Rank in University during M. Pharm 3. Best Poster Presentation (RTGCNT-2022) 4. Best Publication Award (2023) – Teacher's Day, St. John Technical and Educational Campus, Palghar.