

## Curriculum Vitae

### **Mr. Sopan Namdev Nangare**

**Ph.D. Research Scholar**

**Department of Pharmaceutical Chemistry**

**H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur: 425405.**

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### **Career Objective**

To contribute in the field of academics and scientific research with honesty, dedication, and responsibility toward society

### **Educational Qualifications**

| Course          | Name of College/Organization  | Name of University/board         | Year of Passing | Percentage/Percentile              |
|-----------------|---|----------------------------------|-----------------|------------------------------------|
| <b>Ph.D.</b>    | H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur | KBC, NMU Jalgaon                 | ---             | Pursuing                           |
| <b>M. Pharm</b> | Bharati Vidyapeeth College of Pharmacy, Kolhapur                        | Shivaji University, Kolhapur     | 2017-2018       | 71.71 %<br>(University Merit rank) |
| <b>GPAT</b>     | All India Council for Technical Education                               | AICTE, Delhi                     | AIR: 875        | Percentile: 97.48                  |
| <b>B. Pharm</b> | Sinhgad Institute of Pharmaceutical Sciences, Lonavala                  | Savitribai Phule Pune University | 2012-2016       | 69.83 %<br>(3 <sup>rd</sup> rank)  |
| <b>H. S. C.</b> | Tuljaram Chaturchand College, Baramati                                  | Maharashtra State Board          | 2010-2012       | 60.50<br>(First Class)             |
| <b>S. S. C.</b> | Sharadchandraji Pawar Madhyamik Vidyalaya, Lakhewadi.                   | Maharashtra State Board          | 2009-2010       | 93.27 %<br>(1 <sup>st</sup> rank)  |

### **Industrial Experience**

| Industry name                                   | Department                             | Project Completed                             | Duration                       |
|---|--|---|--------------------------------|
| <b>Alembic Pharmaceuticals Ltd., Hyderabad.</b> | Formulation, Research, and Development | Project undertaken: 3<br>Project completed: 1 | October 2018 to April 2019     |
| <b>Micro Labs Pvt. Ltd., Bangalore</b>          | Formulation, Research, and Development | Training program                              | 23 <sup>rd</sup> February 2018 |
| <b>Biological E Ltd., Hyderabad</b>             | Pharma Division-Chemical R & D         | Training program                              | 8 <sup>th</sup> April 2017     |
| <b>Dr. Reddy Laboratory,</b>                    | Formulation, Research,                 | Training program                              | 7 <sup>th</sup> April 2017     |

|   |   |                     |  |
|---|---|---------------------|--|
| Hyderabad   | and Development                           |                     |  |
| Vishwachaitanya<br>Ayurvedic Ras-shala,<br>Baramati | Formulation, Research,<br>and Development | Industrial Training | 7 <sup>th</sup> May 2015<br>to 7 <sup>th</sup> June 2015 |

### Research Experience (Fellowship)

| Research Institute  | Funding Agency   | Fellowship details   | Project Status       | Duration   |
|---|--|--|----------------------|--|
| H. R. Patel<br>Institute of<br>Pharmaceutic<br>al Education<br>and Research,<br>Shirpur<br>425405 | Junior Research<br>Fellow<br>(ICMR, New Delhi)   | Fellowship<br>Awarded (INR 31,000<br>+ 8 % HRA/Month)                      | Project<br>Completed | 2 <sup>nd</sup> April<br>2019 to 3 <sup>rd</sup><br>Jan 2022 |
|   | Research Associate<br>(ICMR, New Delhi)  | Fellowship<br>Awarded (INR 47,000<br>+ 9 % HRA/Month)                      | Ongoing              | 29 July 2022-<br>To date<br>(2 Years)                        |
|   | 15 <sup>th</sup> Maharashtra<br>state interuniversity<br>Research Convention<br>(Aavishkar 2023) | Fellowship<br>Awarded (INR<br>5,000/Month)<br><b>Total: INR 1,20,000/-</b> | Ongoing              | (2 Years)  |

### Research Projects

#### ✚ M. Pharmacy (Pharmaceutics)

**Title:** “*Development of Electrospun Protein Fibers for Modified Release of Lafutidine*”

**Guide:** Dr. Namdeo R. Jadhav

- Secured **3<sup>rd</sup> Position** in the “*AVISHKAR 2018*”, Poster presentation competition at Shivaji University, Kolhapur in December 2018
- Secured **2<sup>nd</sup> Position** in, “*International Conference on Recent Advances in Nanotechnology and Radiopharmaceuticals in Drug Design and Development*” at Surat in Feb. 2019.
- Research article Published (**Impact Factor: 3.87**)

#### ✚ ICMR Research Project

**Title:** “*Fabrication of Surface Decorated Graphene Oxide Nanocomposites for the Label-free Prognosis of Alzheimer's Disease*”. Indian Council of Medical Research (ICMR), V. Ramalingawami Bhawan, Ansari Nagar, Post Box Bo.4911, New Delhi-110029

- Secured **Best E-poster** presentation award “*APTICON 2019*” Poster presentation competition at DIT University, in November 2019

**Principal Investigator:** Dr. Pravin O. Patil

Head of Dept. Pharmaceutical Chemistry,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405

#### ✚ Ph.D. Project Title: “*Development of Graphene Oxide-based Nanoprobe for Prognosis of Alzheimer's Disease*”

**Research Guide:** Dr. Pravin O. Patil

Head of Dept. Pharmaceutical Chemistry,  
H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405

✚ **Research Associate (RA)-ICMR Research Project**

**Project Title:** “Surface architected heteroatom doped 2D carbon backbone mediated surface plasmon resonance biosensor for label free prognosis of coronary artery disease”.

**Research mentor:** Dr. Pravin O. Patil

Professor, Head of Dept. Pharmaceutical Chemistry,  
H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405

✚ **Aavishkar, 15<sup>th</sup> Maharashtra State Inter-University Research Convention**

**Research Associate (RA)-ICMR Research Project**

**Project Title:** “Design of surface decorated 2D carbon backbone based biosensor for label free prognosis of Alzheimer's disease”.

**Research mentor:** Dr. Pravin O. Patil

Professor, Head of Dept. Pharmaceutical Chemistry,  
H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405

**Scientific Publications**

1. **Sopan Nangare**, Pravin Patil. Platinum-alginate-chitosan nanobioconjugate decorated carbon backbone layered biosensor for highly sensitive and selective detection of BACE-1 International Journal of Biological Macromolecules, 250 (2023); 126224. (**Impact Factor: 8.2; Status:** Published, UGC Approved).
2. **Sopan Nangare**, Pravin Patil. Poly(allylamine) coated layer-by-layer assembly decorated 2D carbon backbone for highly sensitive and selective detection of Tau-441 using surface plasmon resonance biosensor. Analytica Chimica Acta, 1271(2023)341474. (**Impact Factor: 6.2; Status:** Published, UGC Approved).
3. **Sopan Nangare**, Mahendra Mahajan, Pravin Patil. Nanosize design of carbon dots, graphene quantum dots, and metal-organic frameworks based sensors for detection of chlorpyrifos in food and water: A review. Microchemical Journal. 193(2023) 109056 (**Impact Factor: 4.8; Status:** Published, UGC Approved).
4. **Sopan Nangare**, Pravin Patil, et al. Nanostructured metal-organic frameworks based luminescent sensor for chemical sensing: Current Challenges and future prospects. Journal Nanostructure in Chemistry, 13(2023) 197-242. (**Impact Factor: 10.1; Status:** Published, UGC Approved).
5. **Sopan Nangare**, Pratiksha Devkar, L R Zawar, et al., Design of polyacrylamide grafted sesbania gum-mediated pH-responsive IPN-based microbeads for delivery of diclofenac sodium: In-vitro-in-vivo characterizations. International Journal of Biological Macromolecules, 230 (2023) 123360. (**Impact Factor: 8.2; Status:** Published, UGC Approved).
6. **Nangare, Sopan**, Patil, Sairendhri, Patil, Ashwini, Deshmukh, Prashant and Patil, Pravin O., Bovine serum albumin-derived poly-l-glutamic acid-functionalized graphene quantum dots embedded UiO-66-NH<sub>2</sub> MOFs as a fluorescence ‘On-Off-On’ magic gate for para-aminohippuric acid sensing. Journal of Photochemistry and Photobiology A: Chemistry, 438(2023) 114532 (**Impact Factor: 4.2; Status:** Published, UGC Approved).
7. **Sopan Nangare**, Dinesh Borhade, Ganesh B. Patil, et al., Preparation of pirfenidone loaded chitosan-polyvinyl alcohol-graphene oxide-based scaffold: Spectroscopical characterizations and antibacterial activity. Journal of Drug Delivery Science and Technology, 82(2023) 104325. (**Impact Factor: 5; Status:** Published, UGC Approved).

8. Jidnyasa Pantwalawalkar, Sopan Nangare, Namdeo Jadhav, et al., Stimuli responsive design of metal-organic frameworks for cancer theranostics: Current challenges and future perspective. *ACS Biomaterials Science & Engineering*, 9(2023) 4497-4526. (**Impact Factor: 5.8; Status:** Published, UGC Approved).
9. **Sopan Nangare**, Pravin Patil, et al., Graphene quantum dots incorporated UiO-66-NH<sub>2</sub> based fluorescent nanocomposite for highly sensitive detection of quercetin Nano Biomedicine and Engineering, 15 (2023) 1-13 (**Status:** Published, UGC Approved).
10. **Sopan Nangare**, Bhupesh Patil, Laxmikant Zawar. Preparation of crystallinity tailored silk fibroin-sodium alginate based floating microbeads for nevirapine delivery. *Cellulose Chemistry and Technology*, 57(2023) 527-539. (**Impact Factor: 1.3; Status:** Published, UGC Approved).
11. **Sopan Nangare**, Kirti Rajput, L R Zawar, et al., Formulation, optimization, and in-vitro-ex-vivo evaluation of dual-crosslinked zinc pectinate-neem gum-interpenetrating polymer network mediated lansoprazole loaded floating microbeads. *International Journal of Biological Macromolecules*, 222 (2022) 915-926. (**Impact Factor: 8.2; Status:** Published, UGC Approved).
12. Vipul Chaudhari, **Sopan Nangare**, Laxmikant Zawar, et al., Chitosan–sesbania gum mediated pH-responsive polyelectrolyte complexes for targeted delivery of diclofenac sodium: preparation and spectroscopical evaluation. *Indian Journal of Pharmaceutical Education and Research*, 57(2023) s564-s572. (**Impact Factor: 0.8; Status:** Published, UGC Approved).
13. **Sopan Nangare**, Vivekanand Chatap, et al., Custard apple peels containing saponin: Isolation and formulation of herbal shampoo. *Indian Drugs*, 2023 (**Status:** Accepted, UGC Approved).
14. **Sopan N. Nangare**, Pravin O. Patil. Black phosphorus nanostructure-based highly sensitive and selective surface plasmon resonance sensor for biological and chemical sensing: A review. *Critical Reviews in Analytical Chemistry*, 53(2023) 1-26. (**Impact Factor: 5; Status:** Published, UGC Approved)
15. Monika L.Girasea,Vrashabh V.Sugandhi, **Sopan N. Nangare**. Design of surface tailored carboxymethyl dextran-protein based nanoconjugates for paclitaxel: Spectroscopical characterizations and cytotoxicity assay. *International Journal of Biological Macromolecules*. *International Journal of Biological Macromolecules*, 222 (2022) 1818-1829 (**Impact Factor: 8.2; Status:** Published, UGC Approved).
16. **Sopan Nangare**, Pravin O. Patil. Chitosan mediated layer-by-layer assembly based graphene oxide decorated surface plasmon resonance biosensor for highly sensitive detection of  $\beta$ -amyloid. *International Journal of Biological Macromolecules*, 2022.214; 568-582. (**Impact Factor: 8.2; Status:** Published, UGC Approved).
17. **Sopan Nangare**, Sagar Patil, Sairendhri Patil, Pravin Patil. Design of graphene quantum dots decorated MnO<sub>2</sub> nanosheet-based fluorescence turn “On-Off-On” nanoprobe for highly sensitive detection of lactoferrin. *Inorganic Chemistry Communications*. 2022;143:109751. (**Impact Factor: 3.8; Status:** Published, UGC Approved).
18. Sandip M Honmane, Praffula B Choudhari, **Sopan N Nangare**, et al., Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects. *OpenNano*, 7(2022) 100059. (**Status:** Published, UGC Approved).
19. **Sopan Nangare**, Pravin O. Patil. Design of monoelemental based two dimensional nanoarchitectures for therapeutic, chemical sensing and in vitro diagnosis applications: A case of borophene. *Journal of Molecular Structure*, 1265(2022) 133387. (**Impact Factor: 3.8; Status:** Published, UGC Approved).

20. Dhiarysheel Ghadge, **Sopan Nangare**, Namdeo Jadhav. Formulation, optimization, and in vitro evaluation of anastrozole-loaded nanostructured lipid carriers for improved anticancer activity. *Journal of Drug Delivery Science and Technology*, 72(2022)103354. (**Impact Factor: 5**; **Status:** Published, UGC Approved).
21. **Sopan Nangare**, Pravin Patil, Ashwini Patil. Fabrication of nitrogen-doped graphene quantum dots as a fluorescent probe for highly sensitive detection of uric acid. *Acta Chimica Slovenica.*, 69(2022) 437–447, (**Impact Factor: 1.44**; **Status:** Published, UGC Approved).
22. Dilip Patil, **Sopan Nangare**, Gaurav Patil, Ganesh Patil, et al., Development of thiolated polyethylene glycol-poly (lactic-co-glycolic acid) co-polymeric nanoparticles for intranasal delivery of quetiapine: *In vitro- ex vivo* characterization. *International Journal of Polymeric Material and Polymeric Biomaterial*, 72 (2023) 714-724. (**Impact Factor: 3.2**; **Status:** Published, UGC Approved).
23. Zamir Khan, **Sopan Nangare**, Pravin Patil, et al., Surface nanoarchitected metal-organic frameworks based sensor for reduced glutathione sensing: A review. *Journal Nanostructure in Chemistry*, 12(2022) 1053-1074. (**Impact Factor: 10.1**; **Status:** Published, UGC Approved).
24. Shailesh S. Dugam, **Sopan N. Nangare**, et al., Crystallinity modulated silk fibroin electrospun nanofibers based floating scaffold as a candidate for controlled release of felodipine. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 71(2022)1393-1406. (**Impact Factor: 3.2**; **Status:** Published, UGC Approved).
25. **Sopan Nangare**, Namdeo Jadhav, et al., Development of amino acid salt-based curcumin@lysine acetate co-amorphous system using liquid-assisted grinding for improved solubility and dissolution. *Thai Journal of Pharmaceutical Sciences*, 46(2023) 711-719. (**Status:** Published, UGC Approved).
26. Sopan Nangare, Jidnyasa Pantwalawalkar, et al., Formulation of silk fibroin-based single polymeric floating microspheres for sustained release of lafutidine. *Indian Journal of Pharmaceutical Education and Research*, 56(2022) 396-404. (**Impact Factor: 0.8**; **Status:** Published, UGC Approved).
27. Rault Tade, **Sopan Nangare**, Pravin Patil, et al., Graphene quantum dots (GQDs) nanoarchitectonics for theranostic application in lung cancer. *Journal of Targeting*, 30(2022) 269-286. (**Impact Factor: 4.5**; **Status:** Published, UGC Approved).
28. Trupti A. Powar, **Sopan N. Nangare**, et al., Development and evaluation of lyophilized methotrexate nanosuspension using quality by design approach. *Acta Chemica Solvonica*, 68(2021) 861-881 (**Impact Factor: 1.5**; **Status:** Published, UGC Approved).
29. **Sopan N. Nangare**, Namdeo R. Jadhav, et al., Silk industry waste protein: Isolation, purification and fabrication of electrospun silk protein nanofibers as a possible nanocarrier for floating drug delivery. *IOP Nanotechnology*, 32(2020) 035101 (**Impact Factor: 3.87**; **Status:** Published, UGC Approved).
30. **Sopan N. Nangare**, Sayali R. Patil, Pravin O. Patil, et al., Structural design of metal-organic framework based sensors for ultrasensitive detection of organophosphorus pesticides in food and water samples: Current challenges and future prospects. *Journal Nanostructure in Chemistry*, 12(2021) 729-764. (**Impact Factor: 8.0**; **Status:** Published, UGC Approved).
31. **Sopan N. Nangare**, Pravin O. Patil, et al., Surface architected metal-organic framework-based biosensor for ultrasensitive detection of uric acid: Recent advancement and future perspectives. *Microchemical Journal*, 169(2021) 106567. (**Impact Factor: 5.304**; **Status:** Published, UGC Approved).



32. **Sopan N. Nangare**, Pravin O. Patil. Nanoarchitected bioconjugates and bioreceptors mediated surface plasmon resonance biosensor for in vitro diagnosis of Alzheimer's disease: Development and future prospects. *Critical Reviews in Analytical Chemistry*. 52(2023):1139-1169. (**Impact Factor: 5.68**, **Status:** Published, UGC Approved).
33. **Sopan N. Nangare**, Pravin Patil. Affinity-based nanoarchitected biotransducer for sensitivity enhancement of surface plasmon resonance sensors for in vitro diagnosis: A review. *ACS Biomaterial Science and Engineering* 7 (2021) 2-30. (**Impact Factor: 5.39**; **Status:** Published, UGC Approved).
34. Rahul S. Tade, **Sopan N. Nangare**, Pravin O. Patil, et al., Recent advancement in bio-precursor derived graphene quantum dots: synthesis, characterization and toxicological perspective. *IOP Nanotechnology*, 31(2020): 292001. (**Impact Factor: 3.87**; **Status:** Published, UGC Approved).
35. Pravin Patil, Gaurav R. Pandey, **Sopan N. Nangare**, et al., Graphene-based nanocomposites for sensitivity enhancement of surface Plasmon resonance sensor for biological and chemical sensing: A review. *Biosensors and Bioelectronics*, 135(2019) 111324. (**Impact Factor: 9.51**; **Status:** Published, UGC Approved)
36. **Sopan N. Nangare**, Pravin O. Patil, et al., Green synthesis of Fe-doped Ag-loaded reduced graphene oxide ternary nanocomposite for efficient photocatalytic degradation of toxic dyes. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 12(2021) 035004 (**Status:** Published, UGC Approved)
37. Pravin O. Patil **Sopan N. Nangare**, et al., Fabrication of N-doped graphene@TiO<sub>2</sub> nanocomposites for its adsorption and absorbing performance with facile recycling. *Nano Biomedicine and Engineering*, 13(2021) 179-190. (**Status:** Published, UGC Approved)
38. **Sopan N. Nangare**, Mayuri M. Shitole, et al., Development of novel freeze-dried mulberry leaves extract-based transfersomal gel. *Turkish Journal of Pharmaceutical Sciences*, 18(2021) 44-55. (**Status:** Published, UGC Approved)
39. **Sopan N. Nangare**, Rahul D. Rathod, et al., Zero-order derivative and area under curve UV-spectrophotometric methods for determination of calcium levofolinate in bulk and pharmaceutical dosage form. *Asian Journal of Pharmaceutical Analysis*, 10(2020)129-133. (**Status:** Published)
40. Rahul S. Tade, **Sopan N. Nangare**, Pravin O. Patil. Agro-industrial waste-mediated green synthesis of silver nanoparticles and evaluation of its antibacterial activity. *Nano Biomedicine and Engineering*, 12(2020) 57-66. (**Status:** Published, UGC Approved)
41. Sopan Nangare, Jidnyasa Pantwalawalkar, et al., Graphene quantum dots based ultrasensitive probe for biosensing of prostate cancer biomarkers: Current updates and future challenges. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 13 (2022) 013001 (**Status:** Published, UGC Approved).
42. **Sopan N. Nangare**, Pravin O. Patil. Prevalence, distribution, treatment, and modern methods for in vitro diagnosis of Alzheimer's disease in India: Challenges and future prospectives. *Thai Journal of Pharmaceutical Sciences*. 2022; 46(2):149-160. (**Status:** Published, UGC Approved).
43. **Sopan N. Nangare**, Mayuri M. Shitole, Namdeo R. Jadhav. Review on drug delivery applications of ethosomes: Current developments and prospects. *Thai Journal of Pharmaceutical Sciences*. 45(2022) 251-265. (**Status:** Published, UGC Approved).
44. Rahul S. Tade, **Sopan N. Nangare**, Pravin O. Patil. Historical dilemmas of corona virus disease (COVID-19): Public health emergency, management perspectives, and

- global impacts. Asian Journal of Nursing Education and Research, 9(2021): 345-356. (Status: Published)
45. **Sopan N. Nangare**, Nikita Kumawat, et al., An overview on phytochemistry, pharmacology, pharmaceuticals, traditional and economical aspects of Agele marmelos. Asian Journal of Pharmacy and Technology, 11(2021) 166-174. (Status: Published)
  46. **Sopan N. Nangare**, Pravin O. Patil, et al., Pharmaceutical applications of citric acid. Future Journal of Pharmaceutical Sciences, 7(2021)1-23. (Status: Published, UGC Approved)
  47. Rahul Tade, **Sopan N. Nangare**, Pravin Patil. Fundamental aspects of graphene and its biosensing applications. Functional Composites and Structures, 3(2021) 012001. (Status: Published, UGC Approved)
  48. **Sopan N. Nangare**, Shailesh Dugam, et al., Emerging era of microneedle array for pharmaceutical and biomedical applications: recent advances and toxicological perspectives. Future Journal of Pharmaceutical Sciences, 7(2021):1-26. (Status: Published, UGC Approved)
  49. **Sopan N. Nangare**, Namdeo R. Jadhav, et al., Carbon dots: A novel trend in pharmaceutical applications. Annales Pharmaceutiques Françaises, 79(2021) 335-345. (Status: Published, UGC Approved)
  50. **Sopan Nangare**, Shailesh Dugam. Smart invasome synthesis, characterizations, pharmaceutical applications, and pharmacokinetic perspective: A review. Future Journal of Pharmaceutical Sciences, 6(2020)123. (Status: Published, UGC Approved)
  51. Rahul S. Tade **Sopan N. Nangare**, Pravin O. Patil. Graphene conquering pharmaceutical horizons. Inventi Rapid: Pharm Tech, 2020 (2) 1-5. (Status: Published)
  52. **Sopan N. Nangare**, Pravin O. Patil. Green synthesis of silver nanoparticles: An eco-friendly approach. Nano Biomedicine and Engineering, 12(2020) 281-296. (Status: Published, UGC Approved)
  53. **Sopan N. Nangare**, Mayuri M. Shitole, et al., Pharmaceutical applications of silk sericin. Annales Pharmaceutiques Françaises, 78(2020) 469-486. (Status: Published, UGC Approved)
  54. **Sopan N. Nangare**, Mayuri M. Shitole, et al., Progress in erectile dysfunction therapy through drug delivery system. Thai Journal of Pharmaceutical Sciences, 44(2020) 73-81. (Status: Published, UGC Approved)
  55. **Sopan N. Nangare**, Mayuri M. Shitole, et al., Pharmaceutical applications of electrospun nanofibers: A state-of-the-art review. Asian Journal of Pharmacy and Technology, 10(2020) 187-201. (Status: Published)
  56. **Sopan N. Nangare**, Namdeo R. Jadhav, Pravin Ghagare, et al., pharmaceutical applications of electrospinning. Annales Pharmaceutiques Françaises. 78(2020) 1-11. (Status: Published, UGC Approved)
  57. Gaurav Patil, **Sopan Nangare**, Ganesh Patil., Survey on analysis of knowledge, attitude, and belief regarding COVID-19 vaccination in the selected region of North Maharashtra: A cross-sectional study. Indian Journal of Respiratory Care, 11(2022)363-368. (Status: Published, UGC Approved).

### Book Chapters

1. **Sopan Nangare**, Pravin Patil, Pharmacokinetics of drug-in-polymer matrix-based nanoparticulate drug delivery system. 2022; 159-186. **Publisher:** Springer (Published).

2. **Sopan N. Nangare**, Pravin O. Patil, *et al.* Architected Polymeric Nanoplatfoms Targeted Treatment of prostate cancer. 2022, 427-471. **Publisher:** Springer (Published).
3. Mahesh More, **Sopan N. Nangare**, Pravin O. Patil, *et al.* Passive and active targeting approaches for solid tumors: Progress till date and associated challenges. 2022, 127-166. **Publisher:** Springer (Published)
4. Rahul Tade, **Sopan N. Nangare**, Pravin O. Patil, *et al.* Polymer-based nanoplatfom for breast cancer targeting. 2022,373-400. **Publisher:** Springer(Published).
5. **Sopan Nangare**, Pravin Patil, Sanjaykumar Bari, et al., Advanced hydrogel-based platform for ocular drug delivery. 2023, 305-320 **Publisher: Elsevier** (Published).
6. Mahesh More, **Sopan Nangare**, Pravin Patil, Prashant Deshmukh. Nanostructures used in cancer imaging. 2023, 169-191 (**Publisher:** Elsevier (Published).
7. **Sopan Nangare**, Meghanath Shete, Madhav Shelke, Matin Shaikh, Kiran Patil. Immunomodulation property of antioxidants. **Publisher:** Apple Academic Press (**Stauts:** In production).
8. **Sopan Nangare**, Mahendra Mahajan, Pravin Patil. Surface plasmon-based diagnostic technology. **Publisher:** Wiley-Scrivener publishers (**Status:** Accepted for publication, **Publisher:** Wiley-Scrivener)
9. **Sopan Nangare**, Pravin Patil, et al., Nano-therapeutics for a diabetic foot ulcer and wound healing with metal nanocomposites. (**Stauts:** Accepted for publication, **Publisher:** CRC Press & Taylor and Francis.)
10. **Sopan Nangare**, Pravin Patil, Namdeo Jadhav, et al., Electro spun nanofibers based on silk sericin. (**Stauts:** Submitted, **Publisher:** Elsevier)
11. Ganesh Patil, **Sopan Nangare**, et al., Predicting biodegradation. (**Stauts:** Submitted, **Publisher:** CRC Press, Taylor and Francis)

#### Patent Published

- ✚ **Patent application no:** 202121003034 (**Status:** Published)  
Applicant: Sopan N. Nangare, Pravin O. Patil, Rahul Tade, Sanjay B. Bari
- ✚ **Patent application no:** 202121003033(**Status:** Published)  
Applicant: Rahul S. Tade, Sopan N. Nangare, Pravin O. Patil, Sanjay B. Bari
- ✚ **Patent application no:** 202321040442 (**Status:** Submitted)  
Applicant: Zamir Khan, Sopan N. Nangare, Pravin O. Patil, et al.,
- ✚ **Patent application no:** 202321040441 **Status:** Submitted)  
Applicant: Zamir Khan, Sopan N. Nangare, Pravin O. Patil, et al.,

#### Invited Reviewer

- ✚ IOP Nanotechnology (**Impact Factor:** 3.95)
- ✚ Critical Reviews in Analytical Chemistry (**Impact Factor:** 5.68)
- ✚ International Journal of Research and Reports in Hematology
- ✚ World Journal of Surgical Oncology
- ✚ Journal of Polymers and the Environment (**Impact Factor:** 4.70)
- ✚ Material Research Expre (**Impact Factor:** 2.02)
- ✚ Computer Methods in Biomechanics and Biomedical Engineering (**Impact Factor:** 1.66)

#### Awards and Honors

- Recipient of “**Best Outgoing Student**” award from Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2016-18 (M. Pharmacy)
- Awarded as a Member of ‘**Student Council**’ at Bharati Vidyapeeth College of Pharmacy, Kolhapur in 2017-18



- Recipient of the '**Best Filmy Character**' award from Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2016-17.
- Recipient of '**Mr. SIPS**' award from Sinhgad Institute of Pharmaceutical Sciences, Lonavala, Pune, 2014-15.

### Achievements and Prizes

- Won "**Third Prize**" at **ANVESHAN 2023** (National level, India) organized by Ganpat University, Gujarat, and Association of Indian Universities (AIU), New Delhi dated 16<sup>th</sup>-17<sup>th</sup> March 2023.
- Won "**First Prize**" for poster presentation in '**AVISHKAR 2023**', 15<sup>th</sup> Maharashtra State Inter-University Research Convention, Aavishkar 2023, organized by Savitribai Phule Pune University, Pune. [**Cash Prize:** INR 5,000/-, **Fellowship:** INR 1,400,00/-] dated 12-15<sup>th</sup> January 2023.
- Won "**Second Prize**" at **ANVESHAN 2023** (Western Zone, India) organized by Ajinkya D. Y. Patil University, Pune, and Association of Indian Universities (AIU), New Delhi dated 10-11<sup>th</sup> January 2023.
- "**Best Paper Award**" for biomedical at **Indo-South Korea-Thailand 2<sup>nd</sup> International Conference** jointly organized by Core Facility Center for Photochemistry and Nanomaterials, Gyeongsang National University, South Korea, Chulalongkorn University, Thailand and Vinayaka Mission's Kirupananda Variyar Arts and Science College, Salem Tamil Nadu. 24<sup>th</sup>-25<sup>th</sup> November 2022.
- Won "**First Prize**" for poster presentation in '**AVISHKAR 2022-23**' organized by KBC-NMU, Jalgaon dated 11-12<sup>th</sup> November 2022
- Recipient of "**First Prize**" at E-Poster presentation competition in Pharma Philia Virtual Conference, "**Bridging The Gap Between Practice & Learning**" Organized by Indubhai Patel College of Pharmacy and Research Centre, Dharmaj, Anand Gujarat (Sponsored by Gujarat State Pharmacy Council) on 11<sup>th</sup> February 2022.
- Recipient of "**First Prize**" at Two Days Virtual 15<sup>th</sup> INDO-US Conference "**Global Advances in Pharmaceutical and Allied Sciences**" In Collaboration with APP Gujarat State Branch, APP American International Branch, APP PharmEdu HealthCare Manag Division On 1<sup>st</sup> & 2<sup>nd</sup> December 2021
- "**Best Poster Presentation Award**" at **Indo-South Korea International Conference** jointly organized by Core Facility Center for Photochemistry and Nanomaterials, Gyeongsang National University, South Korea, and Vinayaka Mission's Kirupananda Variyar Arts and Science College, Salem Tamil Nadu. 7<sup>th</sup>-8<sup>th</sup> October 2021.
- Won "**Second Prize**" at the E-International Conference on "Pharmaceutical Sciences and Drug Developments" organized by the Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, Sankalchand Patel Vidyadham, Visnagar-384315, Gujarat (India), Dated on September 09<sup>th</sup>, 2021.
- Won "**Third Prize**" at **ANVESHAN 2019-20, West zone inter-university student research convention**, (INTER-STATE) Organized by the **Association of Indian Universities** (AIU), New Delhi on 19-20<sup>th</sup> February 2020
- Won "**First Prize**" for poster presentation in '**AVISHKAR 2019-20**' organized by KBC-NMU, Jalgaon on 8-9<sup>th</sup> January 2020
- Received "**Second Prize**" for poster presentation in '**Two day National Conference, Sponsored by AICTE (Delhi)**' organized by R. C. Patel Institute of Pharmaceutical Education and Research (**RCPIPER**), Shirpur on 24-25<sup>th</sup> November 2019
- Won "**First Prize**" for poster presentation in '**AVISHKAR-2017-18**' organized by Shivaji University, Kolhapur on 29<sup>th</sup> December 2017

- “**Runner Up**” position in intercollegiate cricket matches organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2017-18
- Secured “**Rank Order**” at the Master of Pharmacy examination, **Shivaji University**, April 2017
- Won “**First Prize**” for ‘**Fashion show**’ organized by Sinhgad Institute of Pharmaceutical Sciences, Lonavala (Pune) Sunhare Lamhe, 2014-15
- Won “**Second Prize**” for ‘**Street Play Competition**’ organized by Sinhgad Institute of Pharmaceutical Sciences, Lonavala (Pune) Sunhare Lamhe, 2014-15.
- Won “**Second Prize**” for ‘**Fashion show**’ organized by Sinhgad Institute of Pharmaceutical Sciences, Lonavala (Pune) Sunhare Lamhe, 2013-14
- Won “**Second Prize**” in ‘**Chess Competition**’ organized by Sinhgad Institute of Pharmaceutical Sciences, Lonavala, Pune, 2012-13
- Won “**Second Prize**” in ‘**Quiz Competition**’ organized by Dr. Babasaheb Ambedkar Government Boys Hostel, Baramati, 2011-12

### Poster and Paper Presentations

- ✚ Participated in a poster presentation at the E-International Conference on “Pharmaceutical Sciences and Drug Developments” organized by the Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, Sankalchand Patel Vidyadham, Visnagar-384315, Gujarat (India), Dated on September 09, 2021.
- ✚ Poster presentation on “***Fabrication of surface decorated graphene oxide nanocomposites for the label-free prognosis of Alzheimer's disease***” **ANVESHAN 2019-20, National level**, Organized by Association of Indian Universities (AIU), New Delhi, and Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal, on 15-16<sup>th</sup> December 2020
- ✚ Poster presentation on “***Fabrication of surface decorated graphene oxide nanocomposites for the label-free prognosis of Alzheimer's disease***” at 14<sup>th</sup> Maharashtra State Inter-University Research Convention, Mumbai University, held on 27<sup>th</sup>- 31<sup>st</sup> January 2020
- ✚ Poster presentation on “***Fabrication of surface decorated graphene oxide nanocomposites for the label-free prognosis of Alzheimer's disease***” at Dhule, district-level research convention, Avishkar 2019, held on 30<sup>th</sup> December 2019
- ✚ Paper Presentation on “***Novel mulberry asava for diabetes treatment: Formulation optimization and preclinical studies***” at AVISHKAR 12<sup>th</sup> Maharashtra State Inter-University Research Convention, Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri, held on 15<sup>th</sup>- 17<sup>th</sup> January 2018
- ✚ Paper Presentation on “***Novel mulberry asava for diabetes treatment: Formulation optimization and preclinical studies***” at AVISHKAR held at Shivaji University, Kolhapur on 29<sup>th</sup> December 2017
- ✚ Poster presentation on “***Oral suspension of ornidazole and ofloxacin: taste masking by resin***” at Sinhgad Institute of Pharmaceutical Sciences (SIPS), Lonavala National level seminar held on 13<sup>th</sup> and 14 February 2016

### Seminars Delivered

1. Development of Electrospun Protein Fibers for Modified Release of Lafutidine (Micro Labs Limited, Bangalore)
2. Dissolution Test Apparatus (Compendial and Non-compendial)
3. Novel Herbal Drug Delivery System

### Training Programmes and Workshops

- ✚ Participated in an online day training workshop “Popular Science Writing under NCSTC, DST Programme”, organized by DST, Vigyan Prasar, and Guru Nanak Dev University dated 5<sup>th</sup> August 2022.
- ✚ Participated in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Computer-aided drug design in drug discovery" from 06/09/2021 to 10/09/2021 at the Indian Institute of Information Technology Allahabad.
- ✚ Participated and completed Online Short Term Training Program (STTP) Phase-III titled ‘Hands-on Training on Cell and Tissue Culture Based Bioactivity Assessment’ Sponsored by AICTE, New Delhi from 04<sup>th</sup> October to 09<sup>th</sup> October 2021 organized by IQAC, Bharati Vidyapeeth College of Pharmacy, Kolhapur(MS).
- ✚ Participated in “**Virtual training on Pharmaceutical techniques involved in Drug, Design and Analysis**” organized by Innovative Communication Club In association with Centre for Drug Testing, MCOPS, Manipal Organizes on 28 February – 05 March 2022.
- ✚ Participated in a two-day national conference on ‘**Need-Based Research and Development in Pharmaceutical Field for Serving Society**’ held at R.C. Patel Institute of Pharmaceutical Education and Research, Shirpur on 24-25<sup>th</sup> November 2019 (Sponsored by AICTE, Delhi)
- ✚ Participated in three days of national-level seminars on ‘**Structural Elucidation of Bioactive Compound**’ at Sinhgad Institute of Pharmaceutical Sciences, Lonavala on 5<sup>th</sup>-7<sup>th</sup> December 2014
- ✚ Participated in one day's national level seminar on ‘**Treaties and Practices of Intellectual Property Right**’ at Sinhgad Institute of Pharmaceutical Sciences, Lonavala on 4<sup>th</sup> February 2016
- ✚ Participated in a two-day national-level seminar on ‘**Natural Product Chemistry: Drug Discovery and Development**’ at Sinhgad Institute of Pharmaceutical Sciences, Lonavala on 5<sup>th</sup>-6<sup>th</sup> February 2016
- ✚ Participated in a two-day national-level seminar on ‘**Current Trends and Future Avenues in Pharmaceutical Formulations**’ at Sinhgad Institute of Pharmaceutical Sciences, Lonavala on 13<sup>th</sup>-14<sup>th</sup> February 2016
- ✚ Participated in a workshop on “**Soft skill for Employability**” Under Lead College Scheme, at Shivaji University, Kolhapur on 13<sup>th</sup> February 2017
- ✚ Participated in “**Entrepreneurs Kolhapur 2017**” organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur in 2016-17
- ✚ Participated in Training Program on ‘**Application of Data Analysis using Minitab 18**’ at T.K.C.P. Varnanagar, Kolhapur on 23<sup>rd</sup> January 2018
- ✚ Participated in a workshop on ‘**Patent Writing Workshop**’ Intellectual Property Right Cell (IPRC) at Shivaji University, Kolhapur from 12<sup>th</sup> to 15<sup>th</sup> July 2018

#### Guest Lectures

- ✚ Successfully delivered a lecture on “**How to write scientific review and research article**” at Bharati Vidyapeeth College of Pharmacy, Kolhapur, dated 17<sup>th</sup> March 2022.
- ✚ Successfully delivered a lecture on “**Career Opportunities and Preparation of Job Interviews in Pharmaceutical Formulation and Development**” at Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2018-19
- ✚ Successfully delivered a lecture on “**Personal Cleanliness**” at Sangaon, Primary school, Sangaon, Kagal, Organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2016-18.

### Special Contributions to the Society

- ✚ Participated in NSS camp at Sangaon, Kagal organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur in 2017-18
- ✚ Participated in NSS camp as Police Mitra in Ganesh Festival, Pune University, organized by Sinhgad Institute of Pharmaceutical Sciences, Lonavala, 5<sup>th</sup>- 14<sup>th</sup> September 2012-13
- ✚ Volunteer in **"Eye Check Camp"** Sangaon, Kagal, Organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2016-18
- ✚ Participated in **"Swachata Abhiyan"** at R. K. Nagar, organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur, 2017-18

### Event Manager and Active Participation

- ✚ Member of the editorial board of college magazine **"PHARMARHYTHM"** in 2017-18, Bharati Vidyapeeth College of Pharmacy Kolhapur, 2017-18
- ✚ Worked as a Head of the Discipline Committee for **Industrial Visit** 2017-18, Bharati Vidyapeeth College of Pharmacy Kolhapur
- ✚ Volunteer in **"Faculty Development Program"** organized by Bharati Vidyapeeth College of Pharmacy Kolhapur, 2017-18
- ✚ Volunteer in a workshop on **"Research Promotion Activity"** organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur in 2017-18
- ✚ Student Member of **"Program Committee"** for Post graduation (M. Pharm), Bharati Vidyapeeth College of Pharmacy Kolhapur, 2016-17
- ✚ Head of Finance Committee for **Industrial Visit** 2016-17, Bharati Vidyapeeth College of Pharmacy, Kolhapur
- ✚ Participated in Sinhgad Krandak, **"NEON"** 'Mr. and Miss Sinhgad' intercampus Competition' at Sinhgad Institutes, Vadgaon (Pune) on 2014-15

### Professional Affiliations

- ✚ Registered Pharmacist, Maharashtra State Pharmacy Council (Registration No.195900)

### Computer Skills

- 1. Knowledge of various scientific databases:** Science Direct, PubMed, Office of Generic Drugs, Orange book, ICH, and Various databases for determination of Pharmacokinetic and Pharmacodynamic Properties
- 2. Packages Known:** MS Office (Word, PowerPoint, Excel)
- 3. Software handling:** PCP disco, Origin Pro, BVCPK-Heckel, BVCPK-Kavakita, Minitab 19, etc.

### Equipment Handling (Institute level)

Electro-spinning nanofiber unit, Fluorescence Microscope, UV-Visible spectrophotometer, Spray dryer, Freeze dryer, Tablet compaction machine, Dissolution test apparatus, Disintegration tester, Particle size analyzer, Motic microscope, Stability chamber, Rotary evaporator, Probe sonicator, Open SPR, Zeta seizer, cold centrifuge, Minipress tablet machine, etc.



### Equipment Handling (Industry)

Manual Capsule filling machine, Conta blender, Hardness tester, Disintegration test apparatus, friability apparatus, Compression machine, Automatic capsule filling machine, GPCG 1.1, Roller Compactor, Coating machine, Power layering (Granulax 20)

### Mandate/Job Responsibility at Industry

- ✦ Development batch and trails
- ✦ Laboratory notebook writing
- ✦ Analytical test request writing
- ✦ Data collection and interpretation
- ✦ Stability batches preparation
- ✦ Bio-batch execution and report writing

### Area of Interest

- ✦ Green synthesis of graphene-based material for biosensing and environmental remediation
- ✦ Formulation, Research, and Development
- ✦ Research interpretation, Publications, and Presentations

### Personal Details

Permanent Address : A/P- Lakhewadi, Tal- Indapur, Dist- Pune 413 103  
Date of Birth : 06<sup>th</sup> Feb. 1994  
Gender : Male  
Marital Status : Unmarried  
Nationality : Indian

### References

**Prof(Dr). Namdeo R. Jadhav**  
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### Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.



**Mr. Sopan Namdev Nangare**