

## CURRICULUM VITAE

SACHIN SHIVAJI GAIKWAD

M. Pharm [Pharmaceutics]

### Permanent Address:

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### EXPERIENCE (11 Years)

- Currently working as **Assistant Professor** in Pharmaceutics at Sanjivani College of Pharmaceutical Education and Research, Kopargaon, Ahmednagar, Maharashtra (IN), from 09 MARCH 2021 to Till Date
- Worked as **Assistant Professor** in Pharmaceutics at SND College of Pharmacy, Yeola, Nashik, Maharashtra (IN), approved by Savitribai Phule Pune University (CCO/3216, CCO/1786, CCO/1601) from 25 APRIL 2019 to 8 MARCH 2021 (1 Year 11 Months) and from 02 AUG 2012 to 14 AUG 2015 (3 Years).
- Worked as **Assistant Professor** in Pharmaceutics at Amrutvahini College of Pharmacy, Sangamner, Ahmednagar, Maharashtra (IN) approved by Savitribai Phule Pune University (CCO/2061, CCO/2851) from 17 AUG 2015 to 24 APRIL 2019. (3 Years 8 Months).
- Worked with SND Diploma College of Pharmacy, from 10 AUG 2009 to 31 AUG 2010 as a Lecturer (1Year)
- Worked with FDC Ltd. (USFDA and MHRA Approved facility) located at Aurangabad, Maharashtra state, India. From 26 JULY 2008 to 5 AUG 2009 as a **Production Officer** in Ophthalmic manufacturing (1Year).

### EDUCATIONAL QUALIFICATION


DEGREE	UNIVERSITY /BOARD	INSTITUTE	YEAR OF PASSING	CLASS	PERCENTAGE %
Ph.D	Pune	MET's Institute of Pharmacy, Bhujabal Knowledge City, Nashik	Pursuing	-	-
M. Pharm [Pharmaceutics]	Pune	M.G.Vs Pharmacy College, Nashik	AUG 2012	First	62.14
B. Pharm	Pune	S.N.D. College of Pharmacy, Yeola	JULY 2008	First	61.08
H.S.C	Nasik	K. B. P. College. Vinchur.	MAY 2002	First	67.33
S.S.C	Nasik	K.B.P.V. Vinchur.	JUNE 2000	First	64.13

### RESEARCH PROFILE

- ✚ **Ph.D RESEARCH FELLOW:** Admitted to the Ph.D Programme in Pharmaceutics (Subject) Science and Technology (Faculty) of the Savitribai Phule Pune University with effect from 10/03/2018.  
**Research Centre:** MET's Institute of Pharmacy, Bhujabal Knowledge City, Nashik  
**Research Guide:** Dr. Sanjay J. Kshirsagar (Principal MET's Institute of Pharmacy, Bhujabal Knowledge City, Nashik)
- ✚ **MASTER DEGREE RESEARCH FELLOW: (2010 - 2012)** – Master degree and Research student at MGVS College of Pharmacy, Nashik (University of Pune), Maharashtra, India.  
**Thesis entitled:** "Design and Characterization of Buccoadhesive Tablets of Timolol Maleate"  
**Research Guide:** Prof. S. B. Gondkar. [R.G. Sapkal College of Pharmacy]

## PATENTS:

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-  **Sachin S. Gaikwad**, Rohini D. Avhad, Kishor S. Salunkhe et al. A modified release capecitabine tablet and process to prepare thereof. Indian Patent (Application Published- APPLICATION NUMBER-TEMP/E-1/32144/2021-MUM)

## PUBLICATIONS: (Cumulative IF: 7.182)

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1. **Sachin S. Gaikwad**, Sanjay J. Kshirsagar. "Review on Tablet in Tablet Techniques" *Beni-Suef University Journal of Basic and Applied Sciences*, 2020, 9 (1), 1-7. @ **Springer Nature (UK)**.  
DOI: 10.1186/s43088-019-0027-7
2. **Sachin S. Gaikwad**, Rohini D. Avhad, Ramesh S. Kalkotwar. "Formulation, Development and In vitro Characterization of Modified Release Tablets of Capecitabine" *Drug Dev Ind Pharm*, 46:1, 20-30 @ 2020 **Taylor & Francis (USA)**.  
DOI: 10.1080/03639045.2019.1698595. **[Impact Factor: 3.225]**
3. Kuldeep H. Ramteke, **Sachin S. Gaikwad**. "Design, Development and Optimization of Glibenclamide Sustained Release Matrix Tablet by Using Natural Polymers" *Current Applied Polymer Science*, 2019, 3 (3), 197-211 @ **Bentham Science**.  
DOI: 10.2174/2452271603666191104151057
4. **Sachin S. Gaikwad**, Monika N. Madibone, Vikrant K. Nikam. "A Review on: Sublingual Route is Most Promising Choice in an Emergency" *Applied Clinical Research, Clinical Trials & Regulatory Affairs*, 2018, 5(3), 200-215. © **Bentham Science (Netherlands)**.  
DOI: 10.2174/2213476X05666180413160420.3
5. **Sachin S. Gaikwad**, Vikrant K. Nikam. "Formulation and Characterization of Mouth Dissolving Tablet of Piroxicam by Sublimation Technique" *Inventi Rapid: Pharm Tech*, 2017, 3, 1-6.
6. **Sachin S. Gaikwad**, Amol A. Jadhav, Mangesh K. Chavan, Kishor S. Salunkhe, Kuldeep H. Ramteke & Sanjay R. Chaudhari. "Design and In Vitro Evaluations of Sublingual Tablet of Timolol Maleate". *Applied Clinical Research, Clinical Trials & Regulatory Affairs*, 2016, 3, 56-63, © **Bentham Science (Netherlands)**.  
DOI: 10.2174/2213476X03666160308202108
7. **Sachin S. Gaikwad**, Shital K. Thombre, Yogesh K. Kale, Sheetal B. Gondkar, and Avinash B. Darekar. "Design and In Vitro Characterization of Buccoadhesive Tablets of Timolol Maleate". *Drug Dev Ind Pharm*, 2014, 40(05), 680-690, @ **Informa Healthcare USA & Taylor & Francis**.  
DOI: 10.3109/03639045.2014.892955. **[Impact Factor: 2.367]**
8. Shital K. Thombre, **Sachin S. Gaikwad**,. "Design and development of mucoadhesive buccal delivery for Pantoprazole with stability enhancement In human saliva". *Int J Pharm Pharm Sci*, Vol 5, Suppl 2, 122-127.  
**[Impact Factor: 1.59]**
9. MP Sonawane , **SS Gaikwad**, DV Derle. "Formulation, Optimization and Evaluation of pH Dependent Colon Targeted Drug Delivery System of Tizanidine Hydrochloride" *Inventi Rapid: Pharm Tech*, 2013(1):1-7.
10. **SS Gaikwad**, YK Kale, SB Gondkar, AB Darekar. "Buccal Tablet as a promising mucoadhesive drug delivery" *Inventi Impact: Pharm Tech*, 2012(3):1-8.
11. **Sachin S. Gaikwad**, Rahul Mhalaskar. "Review on Solubility enhancement of poorly water soluble drug", *Indo American Journal of Pharmaceutical Research*, 2014, 4, 5530-4.

12. Bhaskar O. Aher, **Sachin S. Gaikwad**. "Spectrophotometric Method Development and Validation of Poorly Water Soluble Drug By Using Urea As Hydrotropic Agent" *Indo American Journal of Pharmaceutical Research*, 2016, 6 (01), 4284-94.
13. Hase S. T., Salunkhe K. S., Chaudhari S. R., **Gaikwad S. S**, Gunjal T. P., Pande P. P. " A Review On, "Carrier Based Technology: Liposome" *Journal of Advanced Drug Delivery*, 2015, 2 (4), 1-11.
14. Vivekanand Kashid, Vikrant Nikam, **Sachin Gaikwad**, Vijay Wagh, Sanjay Chaudhari. "Introduction and Guidelines for the Management of Hemophilia: A Review" *Journal of Advanced Drug Delivery*, 2016, 3 (2), 1-10.
15. Gundecha I. S, Salunkhe K. S, Chaudhari S. R, **Gaikwad S.S**. A review on "in situ gel forming system: an attractive alternative for improvement of bioavailability" *Journal of Advanced Drug Delivery*, 2016, 3(1), 1- 11.
16. Gunjal Tanvi P., Chaudhari Sanjay. R., Salunkhe Kishor.S, **Gaikwad Sachin.**, Hase Snehal T. "A Review on Formulation Techniques of Solid Self Nanoemulsifying Drug Delivery System" *Journal of Advanced Drug Delivery*, 2016, 3 (3), 1-8.
17. Vikrant Nikam, Vivekanand Kashid, Jyoti Khapare, **Sachin Gaikwad**. "Bombay Blood Group: An Overview" *Inventi Rapid: Pharmacy Practice*, 2017 (3), 1-2.

## RESEARCH WORK SUMMARY

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- Formulation of Buccoadhesive tablets and its thorough Preformulation studies
- Design and detailed evaluation (characterization) of buccoadhesive tablets (Timolol Maleate)
- Evaluation studies: *In-vitro* drug release, *Ex-vivo* bioadhesion, *Ex-vivo* permeation, Histopathology, Swelling index, surface pH, Kinetic data treatment, short term stability of formulation
- Characterization powder blend: Carres index, Hausner's ratio, angle of repose, bulk and tap density,
- Solid dosages assessment: Hardness, friability, weight variation, thickness, content uniformity,
- Characterization of pure drug and excipients: Solubility, loss on drying, melting point, drug excipients Compatibility, drug quantification by various spectroscopic techniques (UV, FTIR, DCS, P- XRD, SEM)
- Drug entrapment efficiency: Drug entrapment, crystallinity, drug release, DSC entrapment.
- Statistical data processing and to study dissolution kinetics and model fitting.

## EDITOR / REVIEWER

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1. Editorial Board member of American Research Journal of Pharmacy (Chicago).  
(<https://www.arjonline.org/american-research-journal-of-pharmacy/editorial-board>)
2. Advisory Board Member of Asian Journal of Pharmacy and Pharmacology (UGC Approved) since Sep 24, 2019.
3. Reviewer for "Scientific Reports" of Nature Publishing Group From March 2020
4. Reviewer for "Drug Development & Industrial Pharmacy" of Taylor & Francis from November 2015.
5. Reviewer for Pharmaceutical Science and Technology. Science Publishing Group, USA  
(<http://www.pstjournal.org/editorialboard>)
6. Reviewer for "Current Drug Delivery" of Bentham Science from December 2019.

## ACHIEVEMENTS

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- 🏆 I have received the 3<sup>rd</sup> **South Asian Education Award** (Research Category) from EET CRS at Hyderabad 18<sup>th</sup> March 2018.
- 🏆 My Recent Published Article "Review on Tablet in Tablet techniques" is classified under most accessed article of that Journal. More than **11000 people accessed** it within short period.  
( <https://bjbas.springeropen.com/articles/10.1186/s43088-019-0027-7>)

- ✚ Received Letter of Appreciation (Continuously Three Years) from Amrutvahini College of Pharmacy for being a Successful Teacher.
- ✚ Qualified **Ph. D PET Exam 2017**
- ✚ **Hold 22<sup>nd</sup> rank** at All India senior level in National Level Pharmacy talent Search Examination (NLPTSE) Year- 2008
- ✚ I have Received More than **11058 Views** for “Mucoadhesive Drug Delivery System” (<http://www.authorstream.com/Presentation/sachigaikwad619-1028839-mucoadhesive-drug-delivery-system/>) and **6410 Views** for “Nanocapsule”( <http://www.authorstream.com/Presentation/sachigaikwad619-1028878-nanocapsule/>) Presentations available on Author Stream.

## RESEARCH INTEREST

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- Mucosal drug delivery system: Design, development and characterization.
- Colonic drug delivery System: Formulation, coating techniques, evaluation.
- Innovative application of DSC and P-XRD: Drug entrapments in polymer network.
- Thorough Preformulation Study: Drug- excipients compatibility, physico-chemical properties of drug.
- Solubility enhancement of poorly water soluble drug, drug delivery, buccoadhesive films.
- Applications of sublimation technology in development of sublingual drug delivery.

## RESPONSIBILITIES/EXPERIENCES

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### In Amrutvahini College of Pharmacy, Sangamner

- I am successfully performing responsibility regarding teaching of subject like Industrial Pharmacy I & II (Theory & Practical's), Pharmaceutics-I & II & Pharmaceutical Engineering
- I am also conducting theory of Novel Drug Delivery System & Research Methodology of M. Pharmacy
- I having responsibility of well-equipped Industrial Pharmacy Laboratory.
- I am successfully facing NBA committee.
- I had worked as external examiner at various colleges.

### In SND College of Pharmacy, Yeola

- I am successfully performing responsibility regarding teaching of subject like Dosage form design, Pharmaceutics-II & conducting practical of Pharmaceutics-I, Pharmaceutics-II.
- I am also Conducting Practical's of Advanced Pharmaceutics and Formulation and development of M. Pharmacy
- Working as Project Guide for T.Y. B. Pharm students (Five)
- Working as member of college level PCI team. Performing the documentation & uploading SIF of all staff members on to PCI website.
- Working as co-ordinator for Training & Placement Cell.
- I had worked as external examiner at various colleges.

### In FDC LTD. Aurangabad (USFDA & MHRA APPROVED FACILITY)

- Batch manufacturing of ophthalmic products (Scale-up and Pilot batches)
- Batch reconciliation and Batch Manufacturing Record (BMR) completion after manufacturing
- Standard Operating Procedure (SOP) preparation and qualification protocol of ophthalmic products
- Co-ordination and controlling with Quality Control (QC), Quality Analysis (QA) and other department
- Preparation and daily GMP record of product department
- Team work and group management responsibilities

## EXPERIMENTAL SKILLS

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- Practical experience in designing and carrying out preformulation studies.

- Evaluation studies, Characterization of powder blend, Solid dosage form assessment, Characterization of pure drug and excipients, Drug entrapment efficiency studies.
- Interpretation of FTIR, DSC, Powder-XRD & SEM.
- Operational experiences in handling different instrument and characterization techniques Such as (USP Dissolution apparatus, Tablet press, Brookfield viscometer, Spray Dryer, FBP & Extruder Spheronizer, Environmental test chamber, Pan coater, FTIR, UV–Spectrophotometer)
- Conversant with MS-office, Excel, PCP- Disso, Design Expert data analysis.

## **FACULTY DEVELOPMENT PROGRAM**

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1. Participated in online one week Short Term Training Program (24th to 29th May 2021) on “Trends in Alternatives to Biological Methods in Pharmaceutical Studies” sponsored by All India Council for Technical Education, New Delhi and organized by Government College of Pharmacy, Aurangabad.
2. Successfully Completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Technological advancement and manufacturing of Biosimilars for Cancer therapy: Present hurdles and Future prospects" from 2021-06-21 to 2021-06-25 at National Institute of Pharmaceutical Education and Research, Hajipur
3. Successfully Completed one week UGC Networking Resource Centre Web Training Course on “Fundamentals, Advances and Innovative Platforms for Drug Delivery and Pharmaceutical Technology” from 22 to 27 February 2021 at University Institute of Pharmaceutical Sciences Panjab University, Chandigarh
4. Successfully Completed Five Days e- Faculty Development Program on “ Building Research & Innovative Culture Among Pharmacy Teachers” From 18<sup>th</sup> to 22<sup>nd</sup> May 2020 organized at D.Y.Patil Institute of Pharmaceutical Science & Research Pimpri, Pune In association of Pharmacy Teachers of India.
5. Successfully Completed Six Days e- Faculty Development Program on “ Teachers & Ethics: Balance in Research, Teaching, Socio Professional Values & Attitude” From 20<sup>th</sup> to 25<sup>th</sup> May 2020 organized at Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research Nashik.
6. Participated Two Days e- Faculty Development Program on “Best Practices in Innovations IPR and Patents in Pharma” From 26<sup>th</sup> to 27<sup>th</sup> May 2020 organized at Sharadchandra Pawar College of Pharmacy, Otur, Pune.

## **CONFERENCES/ WORKSHOP**

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1. Participated in One day workshop on “Research Metrics” Tuesday, 4th May 2021 organized by Savitribai Phule Pune University.
2. Participated in SPPU sponsored Two days State level Conference on “HR Prespective for Pharmaceutical Industry” held at MET’s Institute of Pharmacy, Bhujabal Knowledge City, Nashik on date 3<sup>rd</sup> & 4<sup>th</sup> January 2020.
3. Participated in SPPU sponsored Two days State level Conference on “Recent trends in Analytical & Bioanalytical Chromatographic Techniques” held at AVCOP Sangamner on date 31<sup>st</sup> January 2018 & 1<sup>st</sup> February 2018.
4. Participated as Presenter in SPPU sponsored Two days National level Workshop on “Fluidized Bed Processor, Spray Dryer & Probe Sonicator” held at AVCOP Sangamner on date 2<sup>nd</sup> & 3<sup>rd</sup> February 2018.
5. Participated in National Symposium on “ Statistical Methods In Research & Business Analytics: A Pharmaceutical Perspective” on Saturday 21<sup>st</sup> Jan 2017 at Aldel Education Trust’s St. John Institute of Pharmacy & Research, Palghar.
6. Participated in Syllabus Revision Workshop Board of Studies, Pharmaceutics (T.Y.B.Pharmacy) on 27<sup>th</sup> Jan 2017 sponsored by SPPU in association with R.G. Sapkal college of Pharmacy, Nashik.
7. Participated in SPPU sponsored Two days National level Conference on “Opportunities & Challenges in Development of Herbal Formulation” held at AVCOP Sangamner on date 10<sup>th</sup> & 11<sup>th</sup> February 2017.
8. Participated in SPPU sponsored Two days National level Conference on “Emerging Trends in Drug Delivery System” held at AVCOP Sangamner on date 12<sup>th</sup> & 13<sup>th</sup> February 2016.
9. Participated in Brookfield Sponsored Seminar on “Advances in Texture Analysis & Viscosity / Rheology” held on 28<sup>th</sup> April 2015 at Sanjivani college of Pharmaceutical Education and Research, kopargaon (India).



10. Attended Two days Seminar on "Formulation Aspects of Pharmaceutical Dosage forms" held on 4<sup>th</sup> & 5<sup>th</sup> January 2014, at Loknete Dr. J. D. Pawar College of Pharmacy kalwan (India)
11. Attended the national level seminar on "Design, Development and Processing of Sterile Dosages Forms" during 7<sup>th</sup> -9<sup>th</sup> January 2011 at Yeola, Nashik (India)
12. Attended 58<sup>th</sup> Indian Pharmaceutical Congress (IPC) during 6<sup>th</sup> -8<sup>th</sup> , Sept. 2006 at Mumbai (India)

## PERSONAL DETAILS

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- **Personal:** Nationality- Indian, Status- Married, Born on 11<sup>th</sup> May 1984.
- **Languages known:** English, Hindi, Marathi.
- **Home Address:** At post: Vinchur, Tal: Niphad, Dist: Nashik, Maharashtra, India 422305.

## DECLARATION

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

**Place: Vinchur**

**Date: 09/08/2021**



(GAIKWAD SACHIN SHIVAJI)