



**All India Shri Shivaji Memorial Society's  
College of Pharmacy, Kennedy Rd, Pune-411 001.**

Establishment 1996; Affiliated to Savitribai Phule Pune University,

Approved by AICTE & Recognized by PCI

\*Accrediated by NBA (B. Pharm Course) 2F/12B Recognition by UGC

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**Name:** Dr. Trupti S. Chitre

**Designation:** Associate Professor

**Qualifications:** M. Pharm, Ph.D.

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**PROFESSIONAL EXPERIENCE:**

1. Working as Associate Professor from April 2012 at AISSMS College of Pharmacy, Pune-411001.
2. Worked as Assistant Professor from November 2007 to March 2012 at AISSMS College of Pharmacy, Pune-411001.
3. Worked as Assistant Professor from March 2002 to November 2007 at Sinhgad College of Pharmacy, Pune-411041.
4. Worked as Lecturer from July 2000 to March 2002 at Allana College of Pharmacy, Pune-411001.
5. Worked as Lecturer from June 1997 to March 2000 at D.Y.Patil College of Pharmacy, Pimpri, Pune.

**TOTAL EXPERIENCE IN YEARS:**

- ❖ Teaching: 20 Years.
- ❖ Research: 10 Years.

**AREAS OF INTEREST:**

Synthesis and Pharmacological screening of designed compounds for activities like: Anti-TB; anti-HIV-1, etc.

### **Ph.D. STUDENTS GUIDED: --**

- ❖ Approved as Ph.D guide by Savitribai Phule Pune University

### **M. PHARM STUDENTS GUIDED: 24**

- ❖ Approved as PG guide by Savitribai Phule Pune University and guided 24 M. Pharm students

### **BOOKS AUTHORED: 01**

Name of Book: Experimental Pharmaceutical Organic Chemistry: A benchtop manual First Edition: 2006

Contributing Authors:

1. Dr. K. S. Jain
2. Dr. P. B. Mimiya

Publisher: Career Publications, Nashik, Maharashtra.

### **PROFESSIONAL AFFILIATIONS:**

- ❖ Life Member: Association of Pharmacy Teachers of India
- ❖ Life Member: ISTE

### **PROJECTS HANDLED/GRANTS RECEIVED:**

- ❖ No. of Inhouse Projects: 00(Co-01)
- ❖ No. of Funded Research Projects (University/Industry): 03
- ❖ Amount of Research Grant Received: 7 Lakh and 70,000/-

### **INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:**

- ❖ Working as Class Teacher for T.Y.B.Pharm
- ❖ Worked as Staff Incharge for T.Y.Projects
- ❖ Working as Member Library Committee
- ❖ Working as Member Student Council
- ❖ Working as Member Women's grievance and Internal Complaints Committee
- ❖ Member IQAC
- ❖ Member Extensions activities
- ❖ Worked as a coordinator for SPPU sponsored seminar entitled "Biological screening techniques and Drug discovery, 13<sup>th</sup> January 2011
- ❖ Worked as a coordinator for University of Pune sponsored QIP Programme "Role of Medicinal Chemist and Phytochemist in Drug Discovery", 16/02/2016.

## **AWARDS/ACHIEVEMENT/MEDALS:**

- ❖ Cleared GATE examination Recipient of AICTE Scholarship during M. Pharm. Course.
- ❖ Shri Murgappa Sirse; 8<sup>th</sup> APTI, **National Convention of Pharmacy** teachers held at Hubli, Karnataka, 2003.
- ❖ Development of Metallocenes: A modified approach towards resistant tuberculosis, Second in 2<sup>nd</sup> international conference on HERBAL AND SYNTHETIC DRUG STUDIES - 10<sup>th</sup> to 12<sup>th</sup> Feb. 2014 at ISTR, Pune ; Consolation prize for poster

## **PUBLICATIONS:**

- ❖ REVIEWS: 03
- ❖ NATIONAL RESEARCH PUBLICATIONS: 01
- ❖ INTERNATIONAL RESEARCH PUBLICATIONS: 19
- ❖ H index - 10
- ❖ i10 Index - 11
- ❖ No of Citations - 520

### **\*REVIEW PUBLICATIONS\***

1. Biological & Medicinal Significance of Pyrimidines: The Chemistry and Biological Significance, review Current Science, 90,793(2006).
2. Londhe S.V., Mulgund S.V., Chitre T.S., Mallade P.S., Bariwal J.B. and K. S. Jain, Hyphenated techniques in analytical world, Indian J.Pharm.Educ.Res.42(4)Oct-Dec,2008 .
3. Exploring Pyrimidine Pharmacophore as Thymidine Monophosphate kinase inhibitors for antitubercular activity: A review, Current topics in Medicinal Chemistry, 2016(16)3211-3223, T. S. Chitre, K. D. Asgaonkar, M.K.Kathir, S.M.Patil, S.B.Padhey.

### **\*NATIONAL RESEARCH PUBLICATIONS\***

1. Microwave assisted organic synthesis for undergraduate chemistry practical; IJPER, 42 (4) 2008. T.S.Chitre, K.S Jain, S. Londhe.

### **\*INTERNATIONAL RESEARCH PUBLICATIONS\***

1. T.S.Chitre, K.S.Jain, P.S.Bhutada, K.Nandkumar, R.S.Somani, P.B.Miniyar: Analgesic and Antiinflammatory Activity of Ethyl Acetate Extract of heartwood of Aquilaria Agallocha, in laboratory animals Pharmacology online 1, 288-298 (2007)
2. K. S. Jain, M.K.Kathiravan, C.J.Shishoo, T.S.Chitre, K.R.Mahadik: Efficient and rapid one pot synthesis of substituted 2- amino-3- carbethoxythiophenes under microwave irradiation, Synth communication, 37:4273-4279, 2007.

3. T.S.Chitre, K.S.Jain,P.B.Miniyar: Anti-oxidant activity of ethyl acetate extract of Aquilaria Agallocha on nitrite induced methamoglobin formation –International Journal of green chemistry,2,Jan-March 2008, issue 1.

4 Vyankatesh Raparti , Trupti Chitre , Kailas Bothara a, Vanaja Kumar , Sudarshan Dangre.. Novel 4-(morpholin-4-yl)-N0-(arylidene)benzohydrazides: Synthesis,antimycobacterial activity and QSAR investigations, European Journal of Medicinal Chemistry,44(2009)3954-3960.

5. Trupti S.Chitre\* and Kailash G.Bothara, Synthesis of some uracil derivatives using ionic liquid, Der Chemica Sinica, 2011, 2 (2): 187-193.

6 Trupti S.Chitre and Kailash G.Bothara, Pyrimidinedione: Pharmacophore Optimization of Selective Thymidine Monophosphate Kinase inhibitors using Group QSAR Studies as Potential Antitubercular agents, J. Chem. Pharm. Res., 2011, 3(2):479-488.

7. Trupti S. Chitre 1\* ,Muthu K. Kathiravan 2,Aparna S.Chothe 1,Vijay K. Rakholiya 1, Kalyani D. Asgaonkar 1, Shital M. Patil 1, Kailash G. Bothara, Synthesis and Antitubercular activity of some substituted pyrimidine derivatives, Journal of Pharmacy Research,Vol.4.Issue 6. June 2011.

8. T.S. Chitre\*, K.G. Bothara, S.M. Patil, K.D. Asgaonkar, S. Nagappa and M.K.KathiravanDesign, Synthesis, Docking and Anti-mycobacterial activity of some novelthiouracil derivatives as thymidine monophosphatekinase (TMPKmt) inhibitors, International Journal of Research in Pharmaceutical and Biomedical Sciences,Vol. 2 (2)Apr – Jun 2011 .

09. Trupti S.Chitre \*, Kailash G.Bothara, Shashikant V.Bhandari, Rajeshwar R.Jalnapurkar and Muthu K. Kathirav : Pharmacophore optimization and design of competitive inhibitors of Thymidine Monophosphate Kinase through molecular modeling studies; Chemical Biology & Drug Design: 2011; 78: 826–834

10. Trupti S. Chitre, Santosh Panda, Shital M. Patil, Aparna S. Chothe, G. Vignesh, Amol B. Salake, Muthu K. Kathiravan\*Novel 1,3,4-(thiadiazol-2-ylamino)methyl-5-(pyridin-4-yl)-1,3,4-oxadiazol-2-thiones:synthesis, docking and antimycobacterial testing: Advances in Biological Chemistry, 2011, 1, 7-14 ABCdoi:10.4236/abc.2011.12002;Published Online August 2011 (<http://www.SciRP.org/journal/abc/>).

11. Muthu Kumaradoss Kathiravan, Rajeshwar Rajendra Jalnapurkar, Aparna SurendraChothe, Trupti Sameer Chitre, Riyaj Shaukat Tamboli, Kumar V. Srinivasan\*: Green and Sustainable Chemistry, 2011, 1, 12-18 doi:10.4236/gsc.2011.11003 Published Online February2011 (<http://www.SciRP.org/journal/gsc>) The Synergy of Combined Use of DMSO and Bronsted Acid (Ionic Liquid) as a Catalyst —Part I: Efficient Niementowski synthesis of modified quinazolinones

12. Vijay K Rakholiya, Trupti S Chitre1\*, Rohan V Bamane;2D and 3D QSAR Studies ofPhthalazine Derivativesas Alpha-1d Antagonists: Inventi Rapid: Med Chem Vol. 2011, Issue 3[ISSN 0976-3821].2011pmc093, CCC: \$10 © Inventi Journals (P) Ltd;Published on Web 06/08/2011, [www.inventi.in](http://www.inventi.in)

13. Vijay K Rakholiya, Trupti S Chitre\*, Rohan V Bamane; Application of Schotten baumanreaction: Synthesis of some tetrahydroquinazoline-3 – carohydrazide derivatives.

14. Vijay K Rakholiya<sup>1</sup>, Trupti S Chitre\*, Rohan V Bamane; Der Pharma Chemica, 2011, 3(4):227-237; Molecular docking studies of quinoline-3-carbohydrazide as novel PTP1B inhibitors as potential antihyperglycemic agents
15. QSAR and Molecular Docking Studies of Oxadiazole-Ligated Pyrrole Derivatives as Enoyl-ACP (CoA) Reductase Inhibitors Kalyani D. Asgaonkar \*, Ganesh D. Mote, Trupti Chitre ;sci pharm. 2014; 82: 71–85.
16. QSAR, docking studies of 1,3-thiazinan-3-yl isonicotinamide derivatives for antitubercular activity, Computational Biology and Chemistry 68(2017)211–218. Trupti S. Chitre\*, Kalyani D. Asgaonkar, Shital M. Patil, Shiva Kumar, Vijay M. Khedkar, Dinesh R. Garud.
17. Synthesis and Evaluation of Anti-Inflammatory, Analgesic, Ulcerogenicity, and Nitric Oxide Releasing studies of Novel Pyrimidine Analogs as non-Ulcerogenic derivatives; IJCPS, 2016, 4(8): 423–430. Nileema S. Modhave, Trupti S Chitre, Vidya P Pawar.
18. 2D and 3D QSAR of Benzimidazole Analogues as NNRTI inhibitors; Computational Biology and Chemistry; Indian Journal of Pharmaceutical Education and Research Vol 51 ; Issue 2 (Suppl) Apr-Jun, 2017 .Shital Patil\*, Kalyani Asgaonkar, Trupti Chitre, Vedika Bhat, Sayali Ethape, Anagha Sujalegaonkar, Sudeep Bhalekar.
19. Synthesis and docking studies of pyrazine–thiazolidinone hybrid scaffold targeting dormant tuberculosis-Bioorganic & Medicinal Chemistry Letters .26 (2016) 2224–2228.

## PRESENTATIONS:

### PAPERS PRESENTED

As an Author: 04

As a Co-author: 26

#### As an Author:

- ❖ 1 Design , Synthesis and Biological Evaluation of Some Non-Nucleoside HIV-1 RT inhibitors Using Structure Optimization through Molecular Modeling studies, Regional Research Conference, INNOVATION, 2010-11
- ❖ 2. Design and synthesis of some heterocyclic derivatives at Avishkar competition 2012.
- ❖ 3. Development of Metallocenes : A modified approach toward Resistant Tuberculosis :Innovation 2014, 23 rd April
- ❖ 4.T.S.Chitre, Design , synthesis and Antimicrobial activity of some heterocyclic compounds. , Avishkar, SCOP, 15th Dec., 2009.

❖ **As a co-author:**

**NATIONAL**

1. K. S. Jain, T. S. Chitre and G. P. Jadhav, 'Advanced separation technique', at the APTI, 7th Convention, Goa, 20th – 22nd Sep., 2002.
2. K. S. Jain, P. B. Miniyar, and T. S. Chitre, 'Pharmainformatics : A Broader Perspective', at the APTI, 7th Convention, Goa, 20th – 22nd Sep., 2002.
3. T. S. Chitre, M. S. Honrao, A. Thomas and P. Patki, 'An evaluation of awareness of adverse effects of commonly used medications amongst drug consumers and prescribers', at the 54th Indian Pharmaceutical Congress, 13th-15th Dec. 2002
4. S. K. Patwardhan, S. M. Meher, K. N. Gujar, T. S. Chitre and A. P. Pandit, 'Validation : A key to unlock the potential of Ayurvedic and Herbal preparations in global market at the APTI 8th convention, Hubli, from 17th–18th Oct. 2003.
5. S. K. Patwardhan, A. P. Pandit, and T. S. Chitre, 'Pharmacist A Professional Education in Prenatal Care at the 8th APTI convention at Hubli from 17th–18th Oct. 2003.
6. P. B. Miniyar, T. S. Chitre, S. K. Patwardhan and A. P. Pandit 'Standard Operating Procedure for Efficient Working of Exam Section of Pharmacy College, at the 8th APTI convention at Hubli from 17th–18th Oct. 2003.
7. K. S. Jain, T. S. Chitre and R. Gangote, 'Microwave Irradiation : A Fast, Efficient and Eco-Friendly Technique for Chemical Synthesis and Analysis, at the APTI International convention held at Vishakapatnam from 2nd – 3rd Oct. 2004.
8. K. S. Jain, P. B. Miniyar, T. S. Chitre, A. S. Pangarkar and S. A. Mishra, 'Novel methodology for Chemical Nomenclature, at the APTI International convention held at Vishakapatnam from 2nd – 3rd Oct. 2004.
9. K. S. Jain, T. S. Chitre, A. V. Apte and M. M. Pandit, 'Purification of Organic compounds: Selection of Solvents, at the APTI International convention held at Vishakapatnam from 2nd – 3rd Oct. 2004.
10. K. S. Jain, T. S. Chitre, A. V. Apte and M. M. Pandit, 'Purification of Organic compounds: Selection of Solvents, at the APTI International convention held at Vishakapatnam from 2nd – 3rd Oct. 2004.
11. T.S.Chitre, P.B.Minियar, K.S.Jain, S.M.Meher, A.V.Apte & M.M. Pandit , 'Novel Teaching Aid In Biochemistry in 9th APTI International Convention, Oct. 2 -3, 2004, Visakhapatnam
12. P. B. Miniyar, K. S. Jain, T. S. Chitre, A. S. Pangarkar & S. A. Mishra, 'Novel methodology for Chemical Nomenclature in 9th APTI International Convention, Oct. 2 -3, 2004, Visakhapatnam
13. P.B. Miniyar, T.S. Chitre et. al. ;'Innovative Teaching Aid in Organic Chemistry" in 8th APTI, National Convention, Oct. 17-18, 2003, Hubli.
14. K. S. Jain, G.P. Jadhav, M.A. Nagras, T.S. Chitre & P.B. Miniyar, 'Phase Transfer Catalysis And its Applications In Drug And Pharmaceutical Industry in 7th APTI, National Convention, Sept. 20-21, 2002, Panji, Goa.

15. T.S.Chitre , K.S.Jain, N.P.Dhore, S.S.Kadam & A.B.Gujar, Osmosis: An Important Phenomenon and Its Relevance To Pharmacy in 9th APTI International Convention, Oct. 2 -3, 2004, Visakhapatnam
16. T.S.Chitre, K.S.Jain, P.B. Miniyar, V.S.Bendre, Innovative teaching aid in stereochemistry in 10th APTI I Convention, Oct.16-17, 2005, Nagpur .
17. K.S.Jain, T.S.Chitre, M.Phoujdar, D.A.Patil, Novel synthesis of Prazosin analogs using Microwave assisted organic reaction enhancement. 57th IPC, Hyderabad, 2, 3, 4 December 2005.
18. K.S.Jain, P.B. Miniyar, T.S.Chitre, M.K. Kathiravan Microwave based synthesis for undergraduate course in 10th APTI I Convention, Oct.16 -17, 2005, Nagpur.
19. K.S. Jain<sup>1</sup>, S. R. Patil<sup>2</sup>, V. S. Veer<sup>2</sup>, T.S.Chitre<sup>1</sup>, S.V.Londhe<sup>1</sup>, M.S.Bhosale<sup>1</sup>, A.Mahajan<sup>2</sup> & M.A.Nagras<sup>1</sup>. Design, Synthesis & Antihyperlipemic Activity of Some Condensed 2-Chloroethylpyrimidin-4(3H)-ones & 4-Chloro-2-chloroethyl pyrimidines 57th IPC, Hyderabad, 2,3,4 December 2006
20. Chitre T.S., Somani R.S., Jain K.S. Analgesic and antiinflammatory activity of heartwood of *Aqualaria agallocha* in laboratory animals . Presented at 11th Annual National Convention of APTI, Bangalore, 2006.
21. T.S.Chitre, Synthesis, Antimicrobial activity and 2D-QSAR of Novel Hydrazones of 4-(4-Morpholino) Benzohydrate. , 61st IPC, Ahmedabad, 11th -13th Dec., 2009.
22. T.S.Chitre, Design , synthesis and Antimycobacterial activity of some heterocyclic compounds. 61st IPC, Ahmedabad, 11th -13th Dec., 2009.

## INTERNATIONAL

- 1.K. S. Jain, T. S. Chitre, Anamik Shah, M. Phoujadar Total microwave based synthesis of novel thionopyrimidines analogs of gefitinib , 8th Tetrahydon symposium , 27th to 29th Jan 2007, Berlin ,Germany.
2. K. S. Jain, T. S. Chitre, M. Phoujadar Novel facile and eco-friendly green chemistry synthesis of some important drug intermediates and APIs, 8th tetrahydon symposium , 27th to 29th Jan 2007, Berlin , Germany.
- 3.K. S. Jain, T. S. Chitre, M. Phoujadar, A. M. Mahajan Microwave based high throughput synthesis of 2,4 diamino 4 amino thieno ( 2,3 d-) pyrimidines, 8th Tetrahydon symposium , 27th to 29th Jan 2007, Berlin , Germany.
- 4.K. S. Jain, M. K. Kathiravan, V. S. Veer, S. Wakadkar, T.S. Chitre, P. B. Miniyar, P. S. Gadewar and S. S.Kadam, Novel Synthesis of Prazosin Analogs using Microwave Assisted Organic Reaction Enhancement (MORE), Joint International Conference on Building Bridges, Forging Bonds for 21st Century Organic Chemistry and chemical Biology, National Chemical Laboratory, Pune, 6th-9th January, 2006.
- 5.K. S. Jain, V. S. Veer, S. Wakadkar, T. S. Chitre, P. S. Gadewar, V. S. Bendre, P. B. Miniyar, D. A. Patil, A.V. Bhosale, M. N. Deodhar and M. K. Kathiravan, Synthesis of Prazosin analogs using Microwave Assisted Organic Reaction Enhancement (More), presented at the Second

International Symposium on Drug Discovery and Process Research, Belgaum, 12th -14th Feb., 2006.

#### **CONFERENCES/ SYMPOSIUMS/CONVENTIONS ATTENDED:**

1. APTI Convention, Pune.
2. Indian Pharmaceutical Congress ,54<sup>th</sup> (Pune) .
3. Attended University of Pune (BCUD) INNOVATION 2008-2009 regional conference for Pune University College Teachers on 21<sup>st</sup> -22<sup>nd</sup> Nov. 2008 held at SGRS College of Pharmacy, Saswad.
4. Attended University of Pune (BCUD) INNOVATION 2009-2010 regional conference for Pune University College Teachers on 5<sup>th</sup> -6<sup>th</sup> January 2009 held at SGRS College of Pharmacy, Saswad.
5. Attended University of Pune (BCUD) INNOVATION 2010-2011 regional conference for Pune University College Teachers on 28<sup>th</sup> – 29<sup>th</sup> Oct. 2010 held at Amrutvahini College of Pharmacy, Sangamner.
6. Attended University of Pune (BCUD) INNOVATION 2011-2012 regional conference for Pune University College Teachers on 18<sup>th</sup> -19<sup>th</sup> March 2012 held at Allard College of Pharmacy, Pune.
7. 19<sup>th</sup> APTI Convention, Pune. 28-30 November 2014
8. Attended (BCUD) INNOVATION 2015 regional research conference for Savitribai Phule Pune University College Teachers on 29<sup>th</sup> June 2015 organized by Sinhgad College of Pharmacy, Vadgaon, Pune.
9. Attended (BCUD) INNOVATION 2016 regional research conference for Savitribai Phule Pune University College Teachers on 27<sup>th</sup> September 2016 organized by Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune.
10. Attended one day state level poster presentation competition "SYNAPSE 2016" organized by AISSMS College of Pharmacy on 14<sup>th</sup> October 2016

#### **WORKSHOPS / SEMINARS/REFRESHER COURSE ATTENDED:**

1. Attended Savitribai Phule Pune University sponsored two day state level seminar on "QbD in Formulation Development" held at AISSMS College of Pharmacy, Pune on 21<sup>st</sup> and 22<sup>nd</sup> January 2015.
2. Attended Savitribai Phule Pune University sponsored one day state level seminar on "Role of Medicinal Chemist and Phytochemist in Drug Discovery" held at AISSMS College of Pharmacy, Pune on 12<sup>th</sup> February 2016.
3. Attended Savitribai Phule Pune University sponsored one day state level seminar on "Insights on Different Funding Agencies and Research Proposal Writing" held at AISSMS College of Pharmacy, Pune on 31<sup>st</sup> January 2016.



4. Attended 2nd International conference on HERBAL AND SYNTHETIC DRUG STUDIES on 10th to 12th feb 2014 at ISTR, Pune
5. AICTE Sponsored Faculty Development Programme on "A Foundation Course in Modern Biotechnology & Bioinformatics for Pharmacy Teachers" during 11th - 22nd Nov. 2003 at Sinhgad College of Pharmacy, Vadgaon (Bk.) Pune - 41.
6. Pune university Sponsored National Seminar on "Biotechnology: An Emerging Frontier for the Indian Pharmaceutical Industry." 13th Oct. 2003 at Sinhgad College of Pharmacy, Vadgaon (Bk.) Pune - 41.
7. AICTE-ISTE sponsored short-term training programme (17th Nov. to 30th Nov. 1999) at Padmashree Dr. D. Y. Patil College of Pharmacy, Pune.
8. AICTE-ISTE sponsored national seminar on 'New Avenues in Drug Design' at AISSMS College of Pharmacy (14th to 19th May 2001).
9. A Practical introduction to Green Chemistry for Pharmacy teachers and student, Saturday, 26th November 2005 at Sinhgad College of Pharmacy, Vadgaon (Bk.) Pune.
10. IPA sponsored one-day seminar on Patents and IPR in Pharma Industry – Current scenario. On 23rd August 2006 at Sinhgad College of Pharmacy, Vadgaon (Bk.) Pune 41.
11. QSAR programme organized at Indira college of Pharmacy during June 2008. Two days Schrodinger docking workshop at NCL, PUNE on 10th and 11 July 2008.
12. Pune university Sponsored National Seminar on "Drug Discovery and Development." 12th-13th Jan. 2008 at Smt. Kashibai Navale College of Pharmacy, Pune - 48.
13. AICTE sponsored faculty development programme on 'New Avenues in Drug Design' at AISSMS College of Pharmacy (2008).

#### **PARTICIPATION AS RESOURCE FACULTY:**

- ❖ Resource Person : International Seminar on: **MDR/XDR Tuberculosis**; A healthcare Menace to developing countries, on 22/03/13, at Sinhgad College of Pharmacy, Vadgaon, Pune for University, 2013.