

## CURRICULUM VITAE



**Dr. Santosh Subhash Chobe**

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### Address:

**Dr. Santosh Subhash Chobe**

Assistant Professor

Department of Chemistry

Loknete Vyankatrao Hiray Arts, Science and Commerce College,

Nashik-422 003

### Personal Information:

**Name** : Chobe Santosh Subhash  
**Date of Birth** : 2<sup>nd</sup> Nov 1985  
**Gender** : Male  
**Marital Status** : Married  
**Languages known** : English, Hindi and Marathi.  
**Hobbies** : Sports (cricket), Novel reading, Net surfing etc.  
**Contact No.** : +91-9975635059

### Educational Qualifications:

**Ph. D** : From S. R. T. M. University, Nanded in Organic Synthesis.  
**M. Sc.** : **Organic Chemistry**,  
From S. R. T. M. University, Nanded, with **I<sup>st</sup>** class (68.87 %), June-2009  
**B. Sc.** : **Chemistry, Biotechnology, Microbiology**  
From S. R. T. M. University, Nanded, with **I<sup>st</sup> with Distinction**  
(67.08 %), June-2007  
**12<sup>th</sup>** : **General Science (PCBM)**,  
From Latur Divisional Board, Latur, with **II<sup>nd</sup>** class (57.83%) June-2003

10<sup>th</sup>

: **General**

From Latur Divisional Board, Latur, with **I<sup>st</sup> with Distinction** class (76.40 %) In June-2001

### Work Experience:

Appointed as **Vice-Principal (Academic)** of LVH Arts, Science & Commerce College Nashik.

Appointed as **Subject Expert** for Selection Committee of Assistant Professor of SPPU.

Appointed as **Member of IQAC** and Convener of NAAC Criterion for Research Innovation and Extension.

Appointed as **Member of Debate Competition** organized by LVH College during the academic year 2019-2020.

**Resource person for Ph.D. Course work** on Research Methodology Organized L.V.H College Collaboration with S.P.P.U. Pune

### Guide:

Recognised Guide of Ph.D and M.Phil of Savitribai Phule Pune University, Pune.

### Research Experience:

- 1 Ph.D degree from S. R. T. M. University, Nanded under the supervision of Dr. B. S. Dawane, Professor, School of Chemical Sciences, Nanded-06.
- 2 Ph.D. Thesis title "***STUDIES ON SYNTHESIS, CHARACTERIZATION AND PHARMACOLOGICAL INVESTIGATION OF SOME NOVEL HETEROCYCLIC COMPOUNDS***"
- 3 Successfully completed a research project entitled "***SYNTHESIS OF AZA AND THIA HETERO ATOM CONTAINING HETEROCYCLES***" as fulfillment of M.Sc. degree course

### Project:

**Aspire Mentorship Research Project, BOD, Research Cell, SPPU, Pune:** Synthesis and Insilico Investigation of novel class of Azoles as potent antifungal agents.

## Reaction's Handled

- 1 Aza-Michael addition reaction.
- 2 Stille coupling reaction
- 3 Intramolecular (3+2) Cycloaddition reactions.
- 4 Intramolecular Aldol condensation reaction.
- 5 Protection and deprotection of functional groups using different protecting/deprotecting groups.
- 6 N-Alkylation reactions
- 7 And many other reactions.

## Experimental skills:

- 1 Handling air and moisture sensitive reagents
- 2 Purification of compounds using various separation techniques such as gravity column chromatography, flash chromatography, preparative TLC, etc.
- 3 Product characterization by various spectroscopic techniques such as IR, UV, NMR, and Mass etc.
- 4 Reaction monitoring by using GC techniques.
- 5 Scaling up reactions from milligram to multi gram scale level.
- 6 Multiple step synthesis of organic molecule and their characterization
- 7 Separation of liquid/volatile compounds using fractional distillation, vacuum distillation, steam distillations, etc.
- 8 Excellent skill to operate various chemistry software's such as ISIS Draw, Chemdraw Ultra, Chems sketch, ACD 10.0 Version.

## Research instrumental Training:

- Fundamentals of UV-Visible Spectroscopy and UV Probe Software Operation
- Fundamentals of IR Spectroscopy
- Fundamentals of HPLC with LC Solution Workshop
- Basic and Fundamentals of GC and MS
- Fundamentals of FLAMEPHOTOMETRY
- Basic and Fundamentals of GC and MS
- Basic and Fundamentals AAS

### Research Interest:

- 1 Ecofriendly multistep synthesis and bridged novel heterocycles.
- 2 Development of newer synthetic methodologies
- 3 Synthesis of Biologically Active Nanomaterials and natural products.
- 4 Greener aspects of novel Aza, Thia and Oxa Scaffolds.

### Bentham Ambassador Publishing of India

### Published papers in International and national Journals:

1. An ecofriendly synthesis and DNA binding interaction study of some pyrazolo [1,5-a] pyrimidines derivatives. **Santosh S. Chobe**, Bhaskar dawane, Khaled M.Tumbi, Prajwal P.Nandedkar, Abhay T. Sangamwar. *Bioorganic and Medicinal Chemistry Letters*, 22,7566-7572, **2012**.
2. Design and synthesis of 1,4-substituted 1*H*-1,2,3-triazolo-quinazoline-4(3*H*)-one by Huisgen 1,3-dipolar cycloaddition with P13Ky isoform selective activity. Sanghapal D.Sawant, Ram vishvkarma, **Santosh S, Chobe** *Bioorganic and Medicinal Chemistry Letters*, 28(2018), 1005-1010.
3. Green approach towards synthesis of substituted pyrazole-1,4-dihydro,9-oxo-1,2,6,7-tetraacyclopentano[b]naphthalene-5-one derivatives as antimicrobial agents. **Santosh S. Chobe**, Rahul D. Kamble, Snehalkumar et al. *Medicinal Chemistry Research*, DOI 10.1007/S00044-013-0487-6.
4. An efficient and rapid synthesis of some novel 1,3-diaryl, diazenyl, 2-propen-1-one using PEG-400 as recyclable solvent and their *in vitro* antimicrobial evaluation. Bhaskar S. Dawane, **Santosh S. Chobe**, Gajanan G. Mandawad and Baseer M. Shaikh, *Orbital Electronic Journal of Chemistry*, 4, 1, **2012**.
5. Novel thiazolo-pyrazolyl derivatives as xanthine oxidase inhibitors and free radical scavengers. Supriya D. Beedkar, Chandrahasya N. Khobragade, **Santosh S. Chobe**, Bhaskar S. Dawane and O. S. Yemul, *International Journal of Macromolecules*, 50(4), 947–956, **2012**.
6. Three component one-pot synthesis of 2-{1-[4-aryl-thiazol-2-ylimino] ethyl}-phenol in polyethylene glycol (PEG-400) as a green medium, Bhaskar S. Dawane, Baseer M. Shaikh, Namdev T. Khandare, **Santosh S. Chobe** and Shankaraiah G. Konda, *Green Chemistry Letters and Reviews* Vol 3(3), 205-208, **2010**.
7. Synthesis and Biological evaluation of 2-(2-butyl-4-chloro-1*H*-imidazol-5-yl-methylene)-substituted-benzofuran-3-ones, Bhaskar S. Dawane, Shankaraiah G. Konda, Ragini G.

Bodade, Baseer M Shaikh, Namdev T. Khandare, **Santosh S. Chobe**, Vishwas D. Joshi, *Organic Communcations*. 3:2, 22-29, **2010**.

8. An efficient one-pot synthesis of substituted pyrazolo [3,4 b:4',3'e]pyridine derivatives via the Hantzsch three component condensation using bleaching earth catalyst and their invitro Antimicrobial evaluation. **Santosh S. Chobe**, Gajanan G. Mandawad, Omprakash S. Yemul, Santosh S. Kinkar and Bhaskar S. Dawane, *International Journal of ChemTech Research*. 3(2), 938-943, **2010**.
9. Synthesis and Invitro Antimicrobial Screening of some new Substituted benzilidine-3-(4,5-diphenyl-1H-imidazol-2-yl)-6-methyl-quinoline. Bhaskar S. Dawane, **Santosh S. Chobe**, Gajanan G. Mandawad and Baseer M Shaikh, *Archives of Applied Science Research*, 3 (1), 401-406, **2011**.
10. Design, synthesis of some new pyrazolo [3, 4-c] pyrazol thiazolone and evaluation of their antimicrobial activity Bhaskar S. Dawane, **Santosh S. Chobe**, Gajanan G. Mandawad and Baseer M Shaikh, *Der Pharmacia Sinica*, 1 (3), 140-146, **2010**.
11. Synthesis of some novel substituted pyrazole based chalcones and their *in vitro* antimicrobial activity, Bhaskar S. Dawane, Baseer M Shaikh, Namdev T. Khandare, Gajanan G. Mandawad **Santosh S. Chobe** and Shankaraiah G. Konda, *Asian J. Res. Chemistry* 3(1), Jan. – Mar. **2010**.
12. An efficient synthesis and in vitro antimicrobial activity of 1, 2, 4-Triazin-6-(5H)-one derivatives Baseer M. Shaikh, **Santosh S. Chobe**, Shankaraiah G. Konda, Namdev T. Khandare, Sanjay A. Chavan and Bhaskar S. Dawane *Der Chemica Sinica*, 1 (2), 86-91, **2010**.
13. Synthesis and in vitro antimicrobial activity of some new 1-thiazolyl-2-pyrazoline derivatives Bhaskar S. Dawane, Shankaraiah G. Konda, Baseer M. Shaikh, **Santosh S. Chobe**, Namdev T. Khandare, Vinod T. Kamble and Raghunath B. Bhosale, *Int. J. Pharm. Sci. Rev. and Res.* 1(2), 09, **2010**.
14. An efficient green synthesis of some novel hetero chalcones as potent antimicrobial agents. Gajanan. G. Mandawad, **Santosh S. Chobe**. Omprakash S. Yemul, Bhaskar S. Dawane, *Journal of Pharmacy Research*. 4(10), 360-363, **2011**.
15. Clean and Green Approach for N-formylation of Amines using Formic acid under neat reaction condition. B. P. Bandgar, S. N. Kinkar, **S. S. Chobe**, G.G. Mandawad, O. S. Yemul, and B. S. Dawane, *Archives of Applied Science Research*. 3(3), 246-251, **2011**.
16. One-pot multicomponent synthesis and antibacterial evaluation of some novel acridine derivatives. Baseer M Shaikh, Shankaraiah G. Konda, Atul V. Mehare, Gajanan G. Mandawad, **Santosh S. Chobe** and Bhaskar S. Dawane. *Der Pharma Chemica*, 2(4), 25-29, **2010**.
17. One-pot multicomponent synthesis and antimicrobial evaluation of some novel pyrano-[2,3-c]- pyrazole derivatives. B. S. Dawane<sup>1</sup>, O. S. Yemul, **S. S. Chobe**, G. G. Mandawad, R. D. Kamble, A. V. Shinde, V. S. Kale, A. O. Hurne, M. A. Pawde, M. P. Kale, N. P. Desai, R. R. Salgare, M. B. Patil, S. N. Mundhe and S. R. Chavan. *Der*

*Pharma Chemica*, 3(3), 300-305, **2011**.

18. PEG-400: prompted eco-friendly synthesis of some novel pyrazolo[1,5-a] pyrimidine derivatives and their invitro antimicrobial evaluation. Baseer M. Shaikh, Shankaraiah G. Konda, **Santosh S. Chobe**, Gajanan G. Mandawad, Omprakash S. Yemul and Bhaskar S. Dawane, *J. Chem. Pharm. Res.*,3(2):435-443, **2011**.
19. Bleaching Earth Catalyzed Synthesis of Bis (Indolyl) Methane's Derivatives in(Polyethylene Glycol) PEG-400. Bhaskar S. Dawane, **Santosh S. Chobe**, Santosh N. Kinkar, Gajanan G. Mandawad, Omprakash S. Yemul, Rahul D.Kambale and Anil V. Shinde., *Research Journal of Science and Technology.*, 03(05), 251, **2011**.
20. An efficient one-pot three-component synthesis of 3-(4-(4-chlorophenyl) thiazol-2-yl)-(aryl)-thiazolidin-4-one derivatives using polyethylene glycol (PEG-400) as a green recyclable solvent and their biological evaluation Bhaskar S. Dawane, Baseer M. Shaikh, Suchita C. Warangkar, **Santosh S. Chobe**, Atul V. Mahere, Chandrahasya N. Khobragade and Shankaraiaah G. Konda, (**Accepted**) *Australian Journal Basic and Applied Science*.
21. Poly (ethylene glycol) (PEG-400): A Green approach towards synthesis of novel Pyrazolo [3, 4-d] pyrimidin-6-amines derivatives and their Antimicrobial Screening. **Santosh S. Chobe**, Vishnu A. Adole, Kunal P. Deshmukh, Thansing B. Pawar and Bapusaheb S. Jagdale Archives of Applied Sciences.6(2), 61-66, **2014**.
22. One-pot synthesis of polyhydroquinoline derivative as antimicrobial agent World journal of chemistry, **Santosh S. Chobe**, Pravin N. Muli, Santosh S. Chobe, Rahul D. Kamble, Shrikant V. Hese, Pratima P. Mogle, Bhaskar S. Dawane. World journal of pharmaceutical research.3(10),728-735,2014.
22. Green approach towards synthesis of pyrano-(2, 3-C)-pyrazoles and Pyrazolo-pyrano-pyrimidine derivatives by using bleaching earth clay in PEG-400 and its biological activity**Santosh S. Chobe**, Thansing B. Pawar, shrikant G.Kalane and Bapusaheb S. Jagdale (**communicated**), **Der Pharma chemica (research scholar library)**
- 23 Microwave assisted Eco-friendly synthesis of 1,5-Benzothiazepine Derivatives as potent antifungal agents via green approach, **Santosh S. Chobe**, International Journal of Research and Analytical Review, 6(1), 492-495, 2019.
- 24 Iodine and iodic acid in water-PEG: A rapid and eco-friendly iodination of various aromatic compounds. **Santosh S. Chobe**, Shankaraiaah G. Konda, Bhaskar S.Dawane (**communicated**), *Tetrahedron*.
- 25 Efficient Synthesis, Antibacterial, Antifungal, Antioxidant and Cytotoxicity Study of 2-(2-Hydrazineyl)thiazole Derivatives. **Santosh S. Chobe**, DOI: 10.1002/slct.201904609 Chemistry Select.
- 26 An Efficient Synthesis of 2-Cinnamoyl-Benzo[g] Indazoles using PEG-400as Green Reaction Solvent. **Santosh S. Chobe**, International journal of current research,12(4),10908-10912,2020.
- 27 I2/HNO3 in PEG-H2O: An eloquent system for direct iodination of activated Arenes, **Santosh S. Chobe**, Journal of advanced scientific research, 11(2),0976-9595, 2020.

## Papers presented in conferences, seminars, workshops, symposia:

1. Presented an oral presentation entitled "One-pot multicomponent synthesis and antimicrobial screening of some novel acridine derivatives 19-21 DEC 2010 organized by **Indian Council of Chemist.**
2. Presented a paper entitled "Eco-friendly Polyethylene glycol (PEG-400): A rapid and efficient recyclable reaction medium for the synthesis of Thiazole derivative 29-30 March 2010 National seminar on Recent Research Trends In Synthetic Organic And Natural Product Chemistry Organized by **Dept. Of Chemistry Sri Venkateswara University, Tirupati-Andhra Pradesh.**
3. Presented a paper entitled "Synthesis of some novel pyrazolo [1, 5-a] pyrimidine derivatives and their *In vitro* antimicrobial evaluation January 5-7 2010 International Conference on "Emerging Trends in Chemistry". **Department of Chemistry, University of pune, Maharashtra.**
4. Presented a paper in 'AVISHKAR-Inter university research festival' entitled "Eco-friendly Synthesis and DNA-binding of some new pyrazolo [1,5-a] pyrimidine derivatives.10-13<sup>th</sup> January 2010, Organized by Solapur University Solapur.
6. Participated in International Conference on 'Drug Discovery & Nanotechnology' 27-29<sup>th</sup> January 2008, Organized by **Department of Chemistry, Yeshwant Mahavidyalya, Nanded.**
7. Presented a paper entitled 'Synthesis and *In vitro* free radical scavenging activity of some novel flavonoids' in National Conference on 'Recent Advances in Chemical Research' 6-7<sup>th</sup> February 2009, Organized by **Department of Chemistry, Osmania University, Hyderabad.**
8. Participated in National Conference on 'Recent Advancements in chemical kinetics,coordination and nanochemistry **R. S. college Latur-2009.**
9. Participated in National Conference on "Recent Advancements in green chemistry organized by **Dept. of chemistry,Vaidyanath college, Parli-2010.**
10. Participated in National Conference on "advanced tools in chemical analysis organized by **Dept. of chemistry, Deogiri College, Aurangabad-2012.**
11. Presented a paper entitled "An Environmentally Benign Protocol for the Synthesis of 1, 5 Benzodiazepines Derivatives as Potential Antibacterial Agents Using PEG-400 as a

- Green Reaction Solvent” in International Conference Chemistry For Mankind: Innovative Ideas in Life Sciences” (**ICCM-2011**) being organized by Chemistry Departments of RTM, Nagpur University, Institute of Science, S.F.S College, **Nagpur**.
12. Presented a paper entitled “Synthesis of some novel substituted pyrazole based chalcones and their in vitro antimicrobial activity 12-13 March 2010 National Conference on Recent Trends In Chemical Research Jointly Organised by **G. S. Gavande College Umerkhed and S.G.B. Amravati University, Maharashtra**.
  13. Presented a paper entitled “An efficient one-pot three-component synthesis of 3-(4-(4-chlorophenyl) thiazol-2-yl)-(aryl)-thiazolidin-4-one derivatives using polyethylene glycol (PEG-400) as a green recyclable solvent and their biological evaluation” 4-5 Nov **2011** National Conference on Eco friendly synthesis of organic compounds **organized by Dayanand Sciences College Latur**.
  14. Presented a paper entitled “One-pot multicomponent synthesis and antimicrobial evaluation of some novel pyrano-[2,3-c]- pyrazole derivatives” 26 Feb **2012** Workshop on intrtdisciplinary Nanoscience **organized by Swami Ramanand Teerth Marathwada University,Nanded**.
  15. Participated in Recent Advances in Bioactive Heterocycles. 22-March **organized by Hu. Bahirji Smarak Mahavidyalaya, Hingoli**.
  16. Participated in workshop on “Advances in Computer Aided Drug Designing” 18 Feb- **2010. organized by Swami Ramanand Teerth Marathwada University,Nanded**.
  17. Presented a paper entitled “PEG-Mediated Green Protocol towards Synthesis of Indole Derivatives Acts as an Antifungal Agents” National Conference on “Advanced Analytical Techniques in chemistry and pharmacy. 8 and 9<sup>th</sup> oct. 2013. **Organized by M.S.G. College Malegaon camp. Dist- Nashik**.
  18. Presented a paper entitled “ Design,synthesis of pyrazolo [1,5-a]pyrimidine derivatives as a DNA binder. International conference on global opportunities for latest development in chemistry and technology-2014(GOLD-CT-2014) **Organized by School of Chemical Sciences North Maharashtra university Jalgaon on 06-08 Feb 2014**.
  19. Participated in National Conference on “chemistry for overall development of human being” organized by Dept of chemistry K.S.K.W arts, science and commerce college , cidco,**16 and 17 th Jan 2015** nashik
  20. Presented a paper entitled “A green reaction media for synthesis of novel chalcone as potent antimicrobial agents” in national conference on recent trends in chemical sciences **organized by dept of chemistry late pundalikrao gawali arts and science college,shirur(jain) 26<sup>th</sup> april 2015** .
  21. Presented a paper entitled “ a greener approach towards synthesis of novel isoxazoline derivatives as potent antifungal agents” **in UGC-SAP sponed international conference on New horizons in synthetic and material chemistry (icsmc-2015) held at university of Mumbai**
  22. Participated in one day seminar on instrumentation analysis, techniques and validation



- process sponsored by LABINDIA analyticals in 28 Feb 2016.
23. Participated in two day seminar on “ **Role of academic and Administrative audit in institutional quality inhancement**” sponsored by NAAC (Bangaluru) and organized by I.Q.A.C Cell C.T. Bora arts, science and commerce college, 4<sup>th</sup> and 5<sup>th</sup> March 2016, shirur, Dist pune.
  24. Presented a paper entitled “**An expeditios green protocol towards synthesis of pyrazoline derivatives as a medicinal interest and their docking screening**” in international conference on emerging trends and issue in research and development” 17<sup>th</sup> and 18<sup>th</sup> feb.2016 at M.S.G.College,malegaon.

#### **Other Relevant Information:**

##### **Referee for International Journals :**

- A. Journals of Research Chemical Intermediates.
- B. Journals of Medicinal Chemistry Research.
- C. Journals of Saudi Chemical Society.
- D. Medicinal chemistry Research

##### **Honors and award:**

1. Presented a paper entitled ‘Synthesis and DNA study of some new pyrazolo[1,5-a]pyrimidines’ in AVISHKAR-Research festival, 4-6<sup>th</sup> January 2010, Organized by Solapur University, Solapur, under the guidance of Dr. B. S. Dawane.
2. An improved procedure for synthesis of some new 1,3-diaryl-2-propen-1-ones using PEG-400 as a recyclable solvent and their antimicrobial evaluation. International publishing house, LAP Lambert Academic Publishing LAP Publishing would be especially interested in publishing your dissertation in the form of a printed book. LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstraße 9966123 Saarbrücken Germany.
3. Actively conducted as a member of college for ‘*Science Forum*’ since from 3 years, Sponsored by Government of Maharashtra State under the guidance of coordinator Dr.B.S.Dawane.
4. Presented a paper and stood first prize entitled ‘Synthesis and DNA study of some new pyrazolo[1,5-a]pyrimidines’ in AVISHKAR-Research festival, 29<sup>th</sup> December 2009, Organized by S. R. T. M. University, Nanded.

5. A research paper awarded as second prize entitled 'An Efficient and Green procedure for the one-pot synthesis of thiazole Schiff bases as ligands under solvent free condition.' In National Seminar on 'Recent Advances in Chemical Kinetics, Coordination and Nanochemistry' 23-24<sup>th</sup> January 2009, Organized by Department of Chemistry, Rajarshi Shahu Mahavidyalaya, Latur.
6. Maharashtra Police annual academic award 2013.

**Patents :**

"A GREENER PROCESS FOR THE PREPARATION OF SULFONAMIDE CHALCONE DERIVATIVES AS POTENT ANTIFUNGAL AGENT"	413/MUM/2012
SOLAR BASED AUTOMOTIVE VEHICLE FOR WATER TRANSPORTATION	201621042273/MUM/2016