

## CURRICULUM VITAE



### **Dr. Mamta T. Sangole**

M.Sc., M.Phil., Ph.D.

Assistant Professor

Shri Shivaji College of Arts, Commerce and Science, Akola,

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### **ADDRESS**

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F-4, Ayurvedic College Complex,

Kedia plot, Holy Cross Convent Road,

Akola (M.S.) India-444001

### **PERSONAL DETAIL**

|                        |   |                          |
|------------------------|---|--------------------------|
| Sex                    | : | Female                   |
| Linguistic Proficiency | : | English, Hindi, Marathi. |
| Nationality            | : | Indian                   |
| Category               | : | Open                     |

### **EDUCATIONAL QUALIFICATION**

| <b>Discipline</b> | <b>Board/University</b>      | <b>Division</b> |
|-------------------|------------------------------|-----------------|
| Ph.D.             | S. G. B. Amravati University | NA              |
| M. Phil.          | Madurai Kamaraj University   | I <sup>st</sup> |
| B.Ed.             | Amravati University          | I <sup>st</sup> |
| M.Sc.             | Amravati University          | I <sup>st</sup> |
| B.Sc.             | Amravati University          | I <sup>st</sup> |
| H.S.C.            | Amravati University          | I <sup>st</sup> |
| S.S.C.            | Nagpur Board                 | I <sup>st</sup> |

**Participation and Presentation of Research Papers in National, International Conferences /Conventions/ Workshops & Seminars - 35**

### **BOOK PUBLISHED IN THE YEAR 2015**

“A Text Book of Chemistry” of Fourth Semester of B.Sc. Part II, (Sem. IV) Unit V (4S Chemistry) Prakash Publications, Jalgaon.

## **QUALIFICATION**

PAT held by S. G. B. Amravati University, Amravati, and May 2007

## **COMPUTER SKILLS**

- i) Certificate Course in Information Technology. (**CCIT**)
- ii) Maharashtra State Certificate Course in Information Technology. (**MSCIT**)
- iii) Certificate Course in C programming & Visual basic 6.0.

## **INDIVIDUAL DEVELOPMENT COURSES**

- i) Passed five exams of Hindi Rastrabhasha.
- ii) Passed three exams of Vocal Classical Music conducted by Gandharva Mahavidyalaya, Mumbai.
- iii) One exam of Tabla conducted by Gandharva Mahavidyalaya, Mumbai.
- iv) Passed Elementary & Intermediate Grade exams of drawing conducted by Govt. of Maharashtra

## **TITLE OF PH. D. THESIS**

‘Studies in the synthesis of *N*-Maltosylated thioamides and related compounds’

## **MEMBERSHIP OF PROFESSIONAL BODIES**

Indian Science Congress Association, Kolkatta (ISCA)  
Amravati University Chemistry Teacher Association (AUCTA)  
Nagpur University Chemistry Teacher Association (NUCTA)  
Indian Chemical Society, Kolkatta (ICS)  
Indian Council of Chemists, Agra (ICC)

## **TEACHING EXPERIENCE**

- i) Three years, P.G. Department of Chemistry, Shri Shivaji College of Arts, Commerce and Science, Akola, S. G. B. Amravati University, Amravati

## **RESEARCH EXPERIENCE**

1. “Synthesis of 1-hepta-*O*-benzoyl- $\beta$ -D-maltosyl-3-aryl thiocarbamide” - For M.Phil. Dissertation-2007
2. Worked for four years as registered research scholar of chemistry on “Studies in the synthesis of *N*-maltosylated thioamides and related compounds”

## **PRESENTATION OF RESEARCH PAPERS IN NATIONAL, INTERNATIONAL CONFERENCES AND CONVENTIONS**

1. “Synthesis of *N*-maltosylated thioamides and related compounds”, .5<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas, Nov. 28-30, 2007, held at R.T.M. Nagpur University, Nagpur. Abstract no. PP-26
2. “Synthesis of 1-hepta-*O*-benzoyl- $\beta$ -D-maltosyl-3- aryl thiocarbamides”, Proceeding of the 95<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2007, held at Andra University, Visakhapatnam. Abstract no. 110.

3. "Synthesis of 3-hepta-*O*-benzoyl- $\alpha$ -D-maltosylimino-*S*-benzyl-1,2,4-dithiazolidines(hydrobromide)",  
International Conference on Drug Discovery and Nanotechnology, Jan. 27-29, 2008 held at Yeshwant Mahavidyalaya, Nanded. Abstract no. DDPP-115.
4. "Synthesis of *N*-maltosylated benzothiazolyl thiocarbamides",  
National Conference on Green Chemistry and its Perspective, Feb. 11-12, 2008, held at S. G. B. Amaravati University, Amaravati. Abstract no.36
5. "Sugar isothiocyanates: Synthesis and Characterization by means of IR, <sup>1</sup>H NMR and mass spectral studies",  
Regional seminar on Recent trend in heterocyclic compound in chemical, medicinal and pharmaceutical sciences,  
Mahatma Fule Arts, Commerce & Sitaramji Chaudhari Science Mahavidyalaya, Warud, Dist. Amaravati. Mar. 2<sup>nd</sup> 2008. Abstract Pg. no. 37.
6. "2-phenylimino-3-aryl-4-*S*-benzyl-6-hepta-*O*-benzoyl- $\beta$ -D-maltosylimino-2,3-dihydro-1,3,5-thiadiazines(hydrochloride) ",  
3<sup>rd</sup> National Conference on Thermodynamics of Chemical and Biological Systems, 16-17 Octo., 2008, held at R.T.M. Nagpur University, Nagpur. Abstract no. PP-48.
7. "Synthesis of 1-hepta-*O*-benzoyl- $\alpha$ -D-maltosyl-5-aryl-2-*S*-benzyl-2,4-isodithiobiurets",  
Proceeding of the 45<sup>th</sup> Annual Convention of Chemists and International Conference on Recent Advances in Chemistry, Nov.23-27, 2008, held at Karnatak University Dharwad, Karnataka. Abstract no. ORG (OP)-36.
8. "Study of synthesis of 1,2,4-dithiazolidines (hydrochloride) by using maltosylisothiocyanate",  
Proceeding of the 96<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2009, held at Shillong, Meghalaya. Abstract no. 98.
9. "Synthetic and structural studies on maltosyl dithiazolidines (hydrochloride) ",  
National Conference on Recent Advances in Chemical Research, Feb. 6-7, 2009, held at Osmania University, Hyderabad. Abstract no.128.
10. Study of synthesis maltosyl 1,2,4-dithiazolidines  
46<sup>th</sup> Annual Convention of Chemists and International Conference on Recent Research Trends in Chemical Sciences, Dec.02-06, 2009, held at VIT University Vellore, Tamil Nadu. Abstract no. PP-48.
11. Synthesis and Antimicrobial activity of some new 1,2,4-dithiazolidines (hydrochloride)  
97<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2010, held at Kerala University, Thiruvananthapuram. Abstract no. PP-48.
12. Dithiazolidines : Synthesis of some novel *N*-maltosylated heterocycle  
47<sup>th</sup> Annual Convention of Chemists and International Conference on Recent Advances in Chemical Sciences, Dec.23-27, 2010, held at Pt. Ravishankar Shukla University Raipur, Chhattisgarh. Abstract no. PP-48.

13. An Expedient synthesis, spectral and antimicrobial study of *N*-maltosides.  
98<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2011, held at SRM University, Chennai. Abstract no. PP-48.
14. A novel approach for the synthesis and biological properties of sugar based 1,2,4-dithiazolidines  
International Conference on Chemistry for Mankind: Innovative ideas in life Sciences, Feb.9-11, 2011, held at R.T.M. Nagpur University, Nagpur. Abstract no. PC-3.
15. Design, synthesis and antimicrobial activities of maltosyl-1,2,4- dithiazolidines (hydrochloride)  
99<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2012, held at KIIT University, Bhubaneswar.
16. Fourier transforms infrared spectroscopy, detection and identification of newly synthesized maltosyl isodithiobiurets.  
49<sup>th</sup> Annual Convention of Chemists, held at NITTTR, Bhopal, 12-15<sup>th</sup> Dec., 2012  
Abstract no. PC-3.
17. Biological studies of some newer benzoylated maltosyl-1,3,5-thiadiazines (hydrochloride)  
100<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2013, held at Kolkatta University, Kolkatta . Abstract no. PC-3.
18. Synthesis of maltosyl-*O*-alkyl thiocarbamates.  
National Conference on Frontiers Areas in Chemistry & Workshop on Quantum Mechanics and Research Methodology held at Department of Chemistry, Shri Shivaji Science College, and Amravati on Octo. 23 & 24<sup>th</sup> , 2013
19. Synthesis of 3-[(3)-aryl thiocarbamide]-5-glycosylimino-1, 2, 4-thiadiazolines  
50<sup>th</sup> Annual Convention of Chemists 2013 held at the Department of Chemistry , Panjab University, Chandigarh, Dec.04-07, 2013 .  
Abstract no. (ORG)PP-47
20. Synthesis of lactosyl-1,3,5-oxadiazines  
International Conference on Global Opportunities for Latest Developments in Chemistry and Technology organized by School of Chemical Sciences, North Maharashtra University, Jalgaon during Feb. 06-08,2014 . Abstract no. PP-268
21. Synthesis and antimicrobial studies of maltosyl tetrazino benzothiazoles  
Third International Conference at Dubai and Abu Dhabi organized by Indian Council of Chemists (ICC) , Agra during 11<sup>th</sup> -13<sup>th</sup> June, 2014. Abstract no. PP-56
22. Synthesis and Structural Elucidation of 3-aryl-4-*S*-benzyl-6-*p*-tolylimino-2-phenylimino-2,3-dihydro-1,3,5-oxadiazine  
51<sup>th</sup> Annual Convention of Chemists 2014, to be held at Kurukshetra University, Kurukshetra ,Dec.9-12, 2014. Abstract no. PP-56
23. Analysis of chemical and physical properties as indicators of soil quality”  
102<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2015, held at Mumbai University, Mumbai . Abstract no. AP-37.

24. Synthesis and structural elucidation of maltosyl 1, 3, 4-thiadiazoles  
National Conference on Sustainable Chemistry : Frontiers & Challenges' on January 30 & 31,2015
- 25 Soil Chemical and physical Analysis as a Tool for Evaluating Nutrient Availability  
International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences, organized jointly by Post Graduate Teaching Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, S.K.Porwal College, Kamptee and Institute of Forensic Science Nagpur, India from 5-7 Febraury 2015.  
Abstract no. PP-37

#### **WORKSHOPS / SEMINARS / CONFERENCES ATTENDED**

1. Workshop on SET and NET Examination organized by Vidya Bharati Mahavidyalaya Amravati during 2<sup>nd</sup> to 5<sup>th</sup> Oct. 2002 at Post Graduate of Department of Chemistry
2. 94<sup>th</sup> Session of Indian Science Congress Association, Jan. 3-7, 2007, held at Annamalai University, Chidambaram (Tamil Nadu).
3. State level Conference on Enviroment-2007 organized by Shri Shivaji College of Arts, Commerce and Science, Akola, on 4<sup>th</sup> Feb.2007
4. Comprehensive Certificate Programme on "Scope and Potential in Pharmaceuticals Industries for Science Students" organized by Institute of Pharmaceuticals Education and Research and Shri Shivaji College of Arts, Commerce and Science, Akola, on 17<sup>th</sup> Sept. 2010
5. UGC Sponsored National level Conference on Developing Frontiers of Physics, and Space Sciences organized by Department of Physics and Mathematics, R.L.T. College of Science, Akola, Sept. 24-25, 2010
6. Thirteenth Annual Convention and One day Seminar on Chemistry in our Lives organized at S. G. B. Amravati University, Amravati held on Sunday 25<sup>th</sup> Sept . 2011
7. Amravati University Chemistry Teachers' Association organized one day Regional Workshop on Redesigning of Chemistry Curriculum on 29 April, 2012 at Brijlal Biyani Science College, Amravati
8. National Conference on Life Sciences organized by, Department of Botany, Shri Shivaji College of Arts, Commerce and Science, Akola, on 8-9<sup>th</sup> Sept. 2012
9. UGC Sponsored National level Workshop on Enriching Textiles with Block Printing ETBP-2013 organized by, Department of Home Science, Shri Shivaji College of Arts, Commerce and Science, Akola, on 27-28<sup>th</sup> Sept. 2013
10. Fifteenth Annual Meet and One day workshop on Research Methodology organized at Jagadamba Mahavidyalaya, Achalpur City, Dist. Amravati held on Sunday, and 20<sup>th</sup> Octo. 2013
11. Rural Science Congress organized by J. D. Patil Sangludkar Mahavidyalaya, Daryapur during Jan. 13<sup>th</sup> & 14<sup>th</sup> ,2014
12. Workshop on Current Trends in Spectroscopic Techniques for Structural Elucidation organized by Department of Chemistry and IQAC (Under UGC C.P.E. Scheme) Shri Shivaji College of Arts, Commerce and Science, Akola during 14<sup>th</sup> - 20<sup>th</sup> July 2014
13. Two-day National Seminar on 'Institutional quality Improvement: Role of Governance, Leadership & Management' at Shivaji Science College. 8<sup>th</sup> - 9<sup>th</sup> August 2014
14. Workshop on Coalescence of Chemical Sciences to Confront the Challenges of Sustainability jointly organized by Royal Chemical Society, UK ,West India Section , Department of Chemistry & Student Welfare Department , Sept. 19-20, 2014, held at S.G. B. Amravati University, Amravati

## RESEARCH PAPERS PUBLISHED IN NATIONAL, INTERNATIONAL JOURNALS

1. "Synthesis and in vitro antimicrobial activity of 3-hepta-*o*-benzoyl- $\beta$ -D-maltosylimino-4-aryl-5-phenylimino-1,2,4-dithiazolidines(hydrochloride)",  
*Int. J. Chem. Sci.*, 7 (3), 2009, 2158-2164.
2. "Synthesis of 2-phenylimino-3-aryl-4-*S*-benzyl-6-hepta-*O*-benzoyl- $\beta$ -D-maltosylimino-2,3-dihydro-1,3,5-thiadiazines (hydrochloride)",  
*J. Indian Chem. Soc.*, 88, 2011, 739-742.
3. "Synthesis and characterization of 1-hepta-*O*-benzoyl- $\beta$ -D-maltosyl-5-aryl-2-*S*-benzyl-2,4-isodithiobiurets",  
*J. Indian Chem. Soc.*, 88, 2011, 743-746.
4. "Synthesis and antimicrobial activity of novel *N*-maltosylated thiocarbamides, benzothiazolyl thiocarbamides and thiocarbamates",  
*J. Indian Chem. Soc.*, 89, 2012, 689-694.
5. "Synthesis, Characterization and in vitro antimicrobial activity of maltosyl-1,2,4-dithiazolidines (hydrochloride)",  
*International Journal of Pure and Applied Chemistry*, (2)17, 2012