

# CURRICULUM VITAE

**Dr. C. S. Karthik**

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## Present Address

C.S.Karthik  
S/O Shantha kumar  
Chairman C.R.R.Thottam  
Erahanahalli (po)  
Thalavadi,  
Erode Dist  
Pin code-638461

## Personal Details

Born : 16.05.1989  
Gender : Male  
Nationality : Indian  
Parents:  
Mr. C. R. Shantha kumar.  
Mrs. S. Rajamma.

## Languages

Kannada, Tamil, English,  
Telugu, Hindi

## Strengths

Co-ordinates well with team members and to have complete dedication toward work ship.

Believe in hard working, sincerity and punctuality.

## OBJECTIVE

To make the best use of my skills as well as to achieve the institution's vision and mission and thereby to enhance my knowledge and thoughts in a challenging and growth oriented institution and to be an asset to such institution.

## ACADEMIC QUALIFICATIONS

Course	Institution	Year of completion	Overall %
Ph.D	Sri Jayachamarajendra College of Engineering, Mysore.	<b>Awarded (2017)</b>	
M.Sc (Chemistry)	JSS college of arts,commerce & science, ooty road, Mysore, Karnataka.	2013	79.34
B.Ed	Sri Ragavendra Educational Institute. Sathy	2011	74.7
B.Sc (PCM)	JSS college of arts, commerce & science ooty road, Mysore, Karnataka.	2010	62.26
PUC (PCMB)	Seva bharathi composite P.U.college C.H.Nagar	2007	65.33
SSLC (10 <sup>th</sup> Std)	Sri Sharada Vidyalaya Matric School Thalavadi	2005	71.36

**Sl.No**

## **WORK EXPERIENCE:**

1.	Worked as Junior Research Fellow from Aug-2013 to Jun-2015 (2 years) and Senior Research Fellow from Aug-2015 to Oct-2016 (1.3 year) under - UGC MRP	
	Department of Chemistry, SJCE, Mysore – 570 006	Worked on “Synthesis, Characterization and Biological activities of some Organic Compounds”
2.	<b>Working as Assistant Professor from Jan-2017 to till date at Department of Chemistry, SJCE, Mysore – 570 025.</b>	
3.	Worked as part-time Asst.Professor from 2 <sup>nd</sup> Nov-2016 to 16 <sup>th</sup> April-2017 at Department of Chemistry, JSS College of arts,commerce, science, Mysore – 570 025.	
4.	Worked as Asst.Professor from April-2017 to June 2017 at PG Department of Chemistry, JSS College for Women, Saraswathipuram, Mysore – 570 025.	

## **Ph.D THESIS**

**TITLE:** SYNTHESIS AND BIOLOGICAL ACTIVITY OF PIPERAZINE AND PIPERIDINE DERIVATIVES.

**GUIDE:** Dr. P. MALLU.

**UNIVERSITY:** VISVESVARAYA TECHNOLOGICAL UNIVERSITY

## **M.Sc. FINAL YEAR PROJECT**

**Project Title:** Synthesis and Antioxidant Activity of (4-(Bis(4-nitrophenyl) methyl)piperzine-1-yl)(phenyl)methanone Derivatives.

### **COMPUTER SKILL**

- Basic computer knowledge
- MS- Office
- Chem-Draw, Datawarrior
- Data Base: Sci-Finder, e-molecules.

### **INSTRUMENTS HANDLED**

- UV-Visible spectrophotometer
- FT-IR
- Flame photometer
- Electrochemical Workstation.

### **PROFESSIONAL BODIES**

- ❖ Life member for the All India Science Congress Association.
- ❖ Serving as a Reviewer for
  - SOP Transaction on Organic chemistry.
  - Medicinal Chemistry Research.

### **AWARDS & HONOURS**

- ❖ Awarded TEQIP Fellowship for pusuing PhD (April 2016 – October 2016).
- ❖ Awarded student travel grant for **International Workshop on Advanced Materials (IWAM) 2017**, organized and sponsored by the Ras Al Khaimah Center for Advanced Materials (RAK CAM), held in Ras Al Khaimah, United Arab Emirates on 19<sup>th</sup> - 21<sup>st</sup> of February, 2017.

### **RESEARCH AREA OF INTEREST**

- ❖ Organic Chemistry
- ❖ Medicinal Chemistry
- ❖ Cancer Biology
- ❖ Investigation on Structural Chemistry.
- ❖ Nano materials for the biomedical applications.

## **RESEARCH ARTICLES (Published/Communicated)**

1. **C. S. Karthik**, H. M. Manukumar, A. P. Ananda, S. Nagashree, L. Mallesha, S. Umesha, P. Mallu, and B. Yashwanth, "Novel potent antibacterial benzodioxane coupled piperazine moiety decorated chitosan silver nanoparticles (Bcp\*C@AgNPs) as anti-biofilm agent against methicillin-resistant *Staphylococcus aureus* (MRSA)" **International Journal of Biological Macromolecules** 2017 (**Under Revision**). **(I.F.: 4.259)**
2. **C. S. Karthik**, H. M. Manukumar, B. L. Sudarshan, K. P. Rakesh, S. Sandeep, S. Nanjundaswamy, L. Mallesha, P. Mallu, K. R. Sanjay and Hua-Li Qin "Synthesis of benzodioxane moiety decorated chitosan silver nanoparticles (B-C\*AgNPs) as promising potent anti-inflammatory agent" **RSC Medchemcomm**,2017(Communicated).**(I.F.: 2.608)**
3. **C. S. Karthik**, H. M. Manukumar, A. P. Ananda, S. Nagashree, L. Mallesha, S. Umesha, P. Mallu, and N. B. Krishnamurthy. "Synthesis of novel benzodioxane midst piperazine moiety decorated chitosan silver nanoparticles (BP\*C@AgNPs) against biohazard pathogens and as potential anti-inflammatory candidate: An molecular docking proofs" **International Journal of Biological Macromolecules**, 2017 (**Under Revision**). **(I.F.: 3.671)**
4. Hema M. K, **Karthik C. S**, Ismail Warad, Abdelkader Zarrouk, Karthik Kumara, Pampa K. J, Mallesha L, Mallu P, and Lokanath N. K, "Regular square planer bis-(4,4,4-trifluoro-1-(thiophen- 2-yl)butane- 1,3-dione)/copper(II) complex: Trans/cis-DFT isomerization, crystal structure, thermal, Solvatochromism, Hirshfeld surface and DNA-binding analysis" **Journal of Molecular Structure**, 1157 (2018) 69-77 **(I.F.:1.753)**
5. Nagaraju S, **C. S. Karthik**, Mallesha L, Lakshminarayana B.N, Mallu P, and Sridhar M.A. "Synthesis, Thermal, Optical, Spectroscopic and Structural Studies Of 2-Methoxybenzaldehyde" **Chemical Data Collections**, 2016 (communicated). **(I.F.: --)**
6. S. Nagashree, **C S. Karthik**, B L. Sudarshan, L. Mallesha and P.Mallu "Synthesis and *in vitro* antimicrobial activity of 2-amino-3-chloro-5-(trifluoromethyl)pyridine derivatives" **Der Pharma Lettre**, 2017 (Accepted). **(I.F.: 1.96)**
7. **C. S. Karthik**, S. Naveen, P. Mallu, L. Mallesha, K. J. Pampa and N. K. Lokanath. "Thermal, Optical, Etching and Structural Studies of [1-(2,5-Dichloro-benzenesulfonyl)-

piperidin-4-yl]-(2,4-difluoro-phenyl)-methanone oxime” **Molecular Crystals and Liquid Crystals**, 2015 (Accepted). (I.F.: 0.62)

8. K. N. Chethan Prathap, **C. S. Karthik**, S. Naveen, Karthik Kumara, L. Mallesha, P. Mallu, and N. K. Lokanatha “Thermal, Optical, Synthesis, Crystal Structure and Hirshfeld Surface Analysis of 2-((Pyridin-4-yl)methyl)isoindoline-1,3-dione” **Chemical Data Collections**, 9(10), 164-174, 2017. (I.F.: --)
9. M. K. Hema, **C. S. Karthik**, L Mallesha, P. Mallu and N. K. Lokanath “Crystal structure and Hirshfeld surface analysis of 4-Nitro phenyl isocyanate” **Der Pharma Chemica**, 9(7):8-12, 2017. (I.F.: 0.982)
10. L Mallesha, **C S. Karthik**, Chethan Kumar and P. Mallu. “Synthesis, Antioxidant and Antihemolytic Activities of (4-Nitro-benzylidene)-pyridin-3-ylmethyl amine” **Chemical Science Review and Letters**, 2016, 5(18), 183-190. (I.F.: 0.597)
11. **C S. Karthik**, L. Mallesha, M. V Santhosh, S. Nagashree, P. Mallu “Synthesis, Characterization, Antimicrobial Activity, and Optical Properties of Schiff Bases Derived from 4-(Aminomethyl) Piperidine” **Indian Journal of Advances in Chemical Science**, 2016, S1, 206-212. (I.F.: --)
12. Latha Rani N, **C S. Karthik**, Sridhar M.A, Mallu P, Mallesha, L. “Synthesis, Crystal Structure and Hirshfeld Study of 3,3'-dinitrobenzophenone” **Journal of Applicable Chemistry**, 2016, 5 (1): 231-241. (I.F.: --)
13. **C S Karthik**, L. Mallesha, S. Nagashree, P. Mallu, Vasanth Patil, Sathish Kumar. Schiff bases of 4-(methylthio)Benzaldehydes: Synthesis, characterization, antibacterial, antioxidant and cytotoxicity Studies. **Current Chemistry Letters**, 5, 71-82, 2016. (I.F.: --)
14. S. Nagashree, **C S. Karthik**, B L. Sudarshan, L. Mallesha, K R. Sanjay and P. Mallu. “In vitro antimicrobial activity of new 2-amino-4-chloropyridine derivatives: A structure-activity relationship study” **Journal of Pharmacy Research**, 9(8), 509-516, 2015 (I.F.: 0.74)
15. **C S. Karthik**, L. Mallesha, P. Mallu. Investigation of Antioxidant Properties of Phthalimide Derivatives. **Canadian Chemical Transactions**, 3, 199-206, 2015. (I.F.: 0.78)
16. **C S. Karthik**, L. Mallesha, P. Mallu. Synthesis and *In Vitro* Biological Activity of [1-(Substituted-benzoyl)-piperidin-4-yl]-(2,4-difluoro-phenyl)-methanone Oximes. **Int. J. Chem. Env. Bio. Sci.**, 3, 156-161, 2015. (I.F.: --)

17. **C S Karthik**, L Mallesha, B Veeresh and P Mallu. "Antibacterial, antioxidant and antiproliferative Activities of 2-Piperazinoethylamine Derivatives" **International Journal of Research in Pharmacy and Chemistry**, 5(1), 2015, 157-166. (I.F.: --)
18. H. S. Nagendra Prasad, **C S. Karthik**, L. Mallesha and P. Mallu. "A short review on biological activity of triazole containing metal complexes" **Asian Journal of Pharmaceutical Analysis and Medicinal Chemistry**, 2(4), 2014, 214-229. (IF=0.789)
19. L Mallesha, **C S. Karthik**, P Mallu, Vasanth Patil. Synthesis, Characterization and Antibacterial Activity of Isoindoline-1,3-dione Derivatives. **SOP Transactions on Organic Chemistry**, 1(2), 21-28, 2014. (IF= ---)
20. S. Nagashree, **C S. Karthik**, L. Mallesha, P. Mallu and S. Bindya. Antiproliferative Activity of New Schiff Bases Derived From 3-Fluoro-5-(trifluoromethyl)benzylamine. **International Journal of Scientific Research**, 2014, 3 (10): 70-73. (IF= ---)
21. L. Mallesha, **C S. Karthik** and H. M. Viswanatha. "Investigation of antioxidant activity of 3,5-dimethoxyaniline derivatives". **Journal of Applicable Chemistry**, 2014, 3 (5): 2131-2137. (IF= ---)
22. **C S Karthik**, L. Mallesha, Santhosh M V and P. Mallu. "In Vitro Antimicrobial Activity of Some New Azo Compounds Synthesized from 2-Aminoethyl Piperzine". **Chemical Science Review and Letters**, 2014, 3(10), 224-230. (IF= ---)
23. L. Mallesha, **C. S. Karthik**, Darshan K. M. and P. Mallu. Synthesis and Spectroscopic study of 2-(6-chloropyridin-2-yl)isoindoline-1,3-dione. **Proceedings of National Seminar on Material Science and Engineering**, JSSCACS, Mysore, 21-22 March 2014, PP 96-98 (ISBN: 978-81-929372-0-5). (IF= ---)
24. L Mallesha, **C S. Karthik**, K S. Nithin and P Mallu. Synthesis and *in vitro* biological activity of (*E*)-1-((4-methyl-3-(4-(pyridin-3-yl)amino)phenyl)diazanyl) naphthalein-2-ol. **Chemical Science Review and Letters**, 2, 342, 2013. (IF= ---)

#### **PAPER PRESENTED IN CONFERENCES**

1. Presented poster entitled " **Green Synthesis of Iron Oxide Nano particle by *Phyllanthus niruri* Extract And Their Applications**" presented at the **International Workshop on Advanced Materials (IWAM) 2017**, organized and sponsored by the Ras Al Khaimah Center for Advanced Materials (RAK CAM) that will be held in Ras Al Khaimah, United Arab Emirates on 19<sup>th</sup> - 21<sup>st</sup> of February, 2017.

2. Presented poster entitled “ **Synthesis, Characterization, Antimicrobial Activity, and Optical Properties of Schiff Bases Derived from 4-(Aminomethyl) Piperidine**” presented at the **International Conference On Advanced Materials & Technology** held on 26-28 May 2016 at Sri Jayachamarajendra College of Engineering, Mysuru-570 006.
3. Presented Oral entitled “**Synthesis And Biological Evolution Of 4-Aryl-1-(1,4-Benzodioxane-2-Carbonyl)Piperazines Derivatives**” presented at the **Two Day National Conference on Application of Modern Analytical Techniques to Fundamental Research in Chemistry** at JSS college Ooty road Mysuru.
4. Presented poster entitled “ **Synthesis And *In Vitro* Antimicrobial Activity Of 2-Amino-3-Chloro-5-(Trifluoromethyl) Pyridine Derivatives**” presented at the **103<sup>rd</sup> Indian Science Congress** held on 3-7 January 2016 at University of Mysore, Mysuru.
5. Presented poster entitled “ **Synthesis and *In Vitro* Biological Activity of [1-(Substituted-benzoyl)-piperidin-4-yl]-(2,4-difluoro-phenyl)-methanone Oximes**” presented at the Two Days **International Conference on Polymers and Chemical Engineering (ICPCE-15)** on 28<sup>th</sup> – 31<sup>st</sup> March 2015 at Singapore. (In absence)
6. Presented poster entitled “**Investigation of Antioxidant Properties of Pthalimide Derivatives**”, presented at the **National Conference on Current Trends in Chemical Biology** Organized by PG Department of Chemistry, JSS College of Arts, Commerce & Science, Mysuru during 2-3 March 2015.
7. Presented poster entitled “**Synthesis of [1-(Substituted-Isocyanate)-Piperidin-4-Yl]-(2,4-Difluoro-Phenyl)-Methanone Oximes and their biological activity**”, presented at the **International Symposium on Chemical Biology Approach to Metabiomics and Second Annual Meeting of Chemical Biology Society, India** in University of Mysore, Mysuru during 18-19 February 2015.
8. Presented poster entitled “**Schiff bases of 4-(methylthio)Benzaldehydes: Synthesis, characterization, antibacterial, antioxidant and cytotoxicity Studies**” in Two days **national conference on “Supramolecules and Nanomaterials”** held on 22<sup>nd</sup> & 23<sup>rd</sup> Aug’14 at St.Philomina’s College, Mysore, Karnataka.
9. Presented poster entitled “**Synthesis and *In Vitro* Antimicrobial Activity of Some New Piperzine Azo Derivatives**” in KSTA - Regional Conference on 'Science and Technology for Education and Health Care' on 21st and 22nd Feb 2014 at JSS college Ooty road Mysore.
10. Presented poster entitled “**Synthesis, Characterization and *In Vitro* Anti-microbial Activity of Some New Azo Compounds Derived from 2-Aminoethyl Piperzine**” Two days **international symposium on “Chemical Biology-Drug Discovery”** held on 9-10<sup>th</sup> Jan’14 at University of Mysore, Mysore-570 006.
11. Presented poster entitled “**Synthesis, *In vitro* Biological Activity and Crystal Structure of (2,4-Difluoro-phenyl)-[1-(2-nitro-benzenesulfonyl)-piperidin-4-yl]-methane Oxime**” in Two days **national conference on “Recent Trends in Chemical Research”** held on 3<sup>rd</sup> & 4<sup>th</sup> Jan’14 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.

12. Presented poster entitled “**Synthesis and *in vitro* biological activity of (E)-1-((4-methyl-3-(4-(pyridin-3-yl)amino)phenyl)diazenyl)naphthalein-2-ol**” in One day national conference on “**Fundamental and Applied Chemistry**” held on 4<sup>th</sup> Oct’ 13 at Dhiraj Gandhi college of Technology, Salem, Tamil Nadu.

### **WORKSHOP AND SEMINAR ATTENDED**

1. Three days **International Conference On Advanced Materials & Technology** held on 26-28 May 2016 at Sri Jayachamarajendra College of Engineering, Mysuru-570 006.
2. Two Days National Conference on **Application of Modern Analytical Techniques to Fundamental Research in Chemistry** at JSS college Ooty road Mysuru.
3. The **103<sup>rd</sup> Indian Science Congress** held on 3-7 January 2016 at Univeresity of Mysore, Mysuru.
4. Two **National Conference on Current Trends in Chemical Biology** Organized by PG Department of Chemistry, JSS College of Arts, Commerce & Science, Mysuru during 2-3 March 2015.
5. Two days **International Symposium on Chemical Biology Approach to Metabiomics and Second Annual Meeting of Chemical Biology Society, India** in University of Mysore, Mysuru during 18-19 February 2015.
6. One day seminar on “**Recent Innovations in Bio - Inorganic & Medicinal Chemistry (RIBMC)**” held on 28th Jan' 2015 at NIE, Mysuru
7. Two days national symposium on “**Emerging Trends in Nanoscience Research**” held on 11<sup>th</sup> & 12<sup>th</sup> Dec’ 14 at Ethiraj College for womens, Chennai-600 008.
8. Three days workshop on “**Research Methodologies and LaTeX**” held on 9<sup>th</sup> to 11<sup>th</sup> Sep’ 14 at Shree Devi Institute of Technology, Mangalore.
9. Two days workshop on “**Essentials of LaTeX**” held on 5<sup>th</sup> & 6<sup>th</sup> Sep’ 14 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.
10. Two days national conference on “**Supramolecules and Nanomaterials**”, held on 22<sup>nd</sup> & 23<sup>rd</sup> Aug’ 14 organized by the Department of Chemistry & Biochemistry, St.Philomina’s College, Mysore-570 015, Karnataka.
11. Two days workshop on “**Dielectric Materials and Devices**” held on 25<sup>th</sup> & 26<sup>th</sup> Jul’ 14 at JSS college Ooty road, Mysore-570 025.
12. Two days workshop on “**Quality In Research**” held on 18<sup>th</sup> & 19<sup>th</sup> jul 2014 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.
13. Two days national conference on “**Material Science and Engineering**” held on 21<sup>st</sup> & 22<sup>nd</sup> Mar’ 14 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.

14. KSTA - Regional Conference on “**Science and Technology for Education and Health Care**” on 21st and 22nd Feb 2014 at JSS college Ooty road, Mysore-570 025.
15. One day research talk on “**Breast Cancer-Its causes**” held on 17<sup>th</sup> Feb’14 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.
16. Two days international symposium on “**Chemical Biology-Drug Discovery**” held on 9-10<sup>th</sup> Jan’14 at University of Mysore, Mysore-570 006.
17. Two days national conference on “**Recent Trends in Chemical Research**” held on 3<sup>rd</sup> & 4<sup>th</sup> Jan’14 at Sri Jayachamarajendra College of Engineering, Mysore-570 006.
18. One day national conference on “**Fundamental and Applied Chemistry**” held on 4<sup>th</sup> Oct’ 13 at Dhiraj Gandhi college of Technology, Salem, Tamil Nadu.
19. One day state level workshop on “**Basic Techniques in Instrumental Analysis**” held on 26<sup>th</sup> Feb 2013 at Maharani’s college, Mysore.
20. One day state level seminar on “**Emerging Trends and Future Prospects in Phytopharmaceuticals**” held on 8<sup>th</sup> Dec’ 2011 at JSS arts, commerce and science college, Mysore.
21. One day state level seminar on “**Chemistry of Materials**” held on 25<sup>th</sup> Nov’ 2011 at SJC College of engineering, Mysore.
22. One day programme on “**International Year of Chemistry-2011**” held on 14<sup>th</sup> Oct’ 2011 at JSS arts, commerce and science college, Mysore.
23. UGC Sponsored State Level Seminar on “**Emerging Trends in Liquid Crystals & Coordination Compounds**”, organized by the Department of Chemistry & Physics, St.Philomina’s College, Mysore, Karnataka.(August 21<sup>st</sup> & 22<sup>nd</sup>, 2009).

### **Awards/prizes in co-curricular activities:**

- Participated and won prize in quiz and debate at intercollegiate level.
- Participated and won prize in ball badminton at university level.
- Actively participated and won many prizes in school and college level cultural activities & sports.
- Participated and won prize in ball badminton at District level.
- 2<sup>nd</sup> highest topper in Kannada language in SSLC exam-2005 (Tamil Nadu)

## **REFERENCE**

**Dr. P.Mallu**

Professor & PG Co-Ordinator

Dept. of Chemistry

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## **DECLARATION**

I hereby declare that the information furnished above is true to the best of my Knowledge and belief.

**Date:**

**Yours faithfully**

**Place:** Mysuru

**C.S.KARTHIK**

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