**Curriculum Vitae**

**Personal Data:**

Name : Dr.T.Sabithakala

Date of Birth : October 27, 1983

Place of Birth: Visakhapatnam, India

Marital Status: Married

Present Post : **Assistant Professor**, Dept. of Chemistry, Jawaharlal Nehru

Technological University, Hyderabad, India.

**Education Background:**

* 2011-2018: Ph.D. in Inorganic chemistry, Jawaharlal Nehru Technological University, Hyderabad, India
* 2009-2010: PG-Diploma(distance participation program) in Industry Program in Pharma Regulatory Affairs, Bioinformatics Institute of India
* 2004-2006: M.Sc.(Organic Chemistry, First Class), Andhra University
* 2001-2004: B.Sc.(First Class), Andhra University

**Academic and Research Experience:**

* 2006-2010: Research Associate (Organic Synthesis) in **Dr.Reddy’s Laboratories Ltd**.(4.3yrs)
* 2010-Till date: **Assistant Professor**, Dept. of Chemistry, **Jawaharlal Nehru Technological University**, Hyderabad, India.(10yrs)

**Research Expertise:**

* + Inorganic and Organic Synthesis
  + Synthesis of ligands and its binary and ternary metal complexes and characterization methods, the use of a wide array of spectroscopic and electrochemical tools to understand the biological, electrochemical and magnetic properties.
  + Synthesis of coordination polymeric complex and study of its Crystal structure, Magnetic Properties, DNA binding and electro chemical studies.
  + Separation of regio isomers by using preparative HPLC.
  + Synthesis of the molecules which involving addition, substitution, reduction, grignard preparation, recrystallisation, salt formations, condensations, hydrolysis, high pressure reductions, Halogenation, Oxidation and cyclizations.
  + Synthesis of organophosphorous and organoarsenic molecules.
  + Chiral reductions using various chiral catalysts like Diphenyl prolinol, Anilinomethyl pyrrolidone, Chiral lactam alcohols, spiro borate esters etc.

**Publications in Journals:**

1. Title: DNA-binding, cleavage, antibacterial and in vitro anticancer activity of copper(II) mixed ligand complexes of 2-(((6-chloro-1H-benzo[d]imidazol-2-yl)methyl)amino)aceticacid and polypyridyl ligands, Sabithakala T, Venkata Ramana Reddy Ch, [***Journal of biomolecular Structure & Dynamics***](https://www.researchgate.net/journal/Journal-of-biomolecular-Structure-Dynamics-1538-0254), December 2021, DOI: [10.1080/07391102.2021.2019121](http://dx.doi.org/10.1080/07391102.2021.2019121)
2. Title: DNA binding and invitro anticancer activity of 2-(1H-benzimidazol -2 yl) methylamino) acetic acid and is copper (11) mixed – polypyridyl complexes: synthesis and crystal structure, Sabithakala T, Venkata Ramana Reddy Ch, ***Applied Orgaaometallic chemistry,*** Vol. 32, **2018**,E4550.
3. Synthesis, Crystal structure, electrochemical poperties, and Biological activity of 2 (( 1H – Benzimidazool – 2 – Y1) methy1 amino) acetic acid, Sabithakala T, Bhargavi G, Venkata Ramana Reddy Ch, ***Crystallography Reports,*** Vol. 63, **2018**, 600–605.
4. Title: Carboxylate-bridged Cu(II) coordination polymeric complex: synthesis,crystal structure, magnetic properties, DNA binding and electrochemical studies, Sabithakala T, Bhargavi G, Venkata Ramana Reddy Ch**, *Journal of chemical sciences****,* Vol. 129, **2017**, 1171–1181.
5. Title: Synthesis and characterization of amino acid coupled benzimidazole based ligands, Sabithakala T, Venkata Ramana Reddy Ch, Vinodini M, ***Der Pharma Chemica***, **2016**, 8,187-192.
6. Title: Formation of benzimidazolium salt in the complexation of 2– substituted benzimidazole derivative, Sabithakala T, Venkata Ramana Reddy Ch,***Heterocyclic Letters****,* **2016**, 6, 53-56.

**List of publications in Conferences:**

1. Title: **Synthesis, characterisation and biological activity of Benzimidazole based Cobalt and Nickel(II) Complexes.** Three Day International Virtual Conference On "Impact Of Chemical Disasters On Biota" (Icdb- 2020), 24th - 26th July, 2020, Andhra University and Andhra Pradesh Akademi Of Sciences.
2. Title: **A Soft ferromagnetic copper(II) polymer synthesis**,“Indo-Korea Virtual Conference on Development of Advanced Materials for Future Technologies (DAMFT-2020)”, 9-10 th July, 2020, VIT Chennai, India,Jeonbuk National University, Jeonju, South Korea,SPIE Student Chapter, VIT Chennai.
3. Title:**Synthesis of 6-substitutedbenzimidazole derivatives and their characterization and biological activity,** International Conference on Drug Discovery and Development:Lab to clinic(DDD LC-2020), 17-18th January,2020 ,Swami Ramananda Teerth Marathwada University, Nanded, Maharastra-India.
4. Title:**Estimation of acid dissociationconstant of 2-((1H-benzimidazol-2-yl)methylamino)aceticacid by spectrophotometric and cyclic voltametric method,** International Conference on recent advances in chemical,pharmaceutical and chemical Life processes(RACPL-2019) ,13-15th July,2019 ,Department of chemistry, Andhra University,Visakhapatnam-530003.
5. Title:**Biological activity of novel Benzimidazole based ternary Cu(II)complexes,** International congress on recent advances in chemistry and chemical engineering(ICRACACE-2016) ,11-13th July,2016 ,Department of chemistry,JNTUH, College of Engineering, Hyderabad.
6. Title: **Thermochemical Conversion Of Biomass Into Gaseous Fuel For Electricity Generation**, Biofuels and Bioenergy: International conference and Exhibition(BICE2016), 23-25th Feb,2016,MANIT,Bhopal.
7. Title: **Synthesis and Crystal Structure of Quaternary ammonium salt of a Benzimidazole-Glycine derivative ligand,** International Conference on Trend Setting Innovations In Chemical Science and Technology Aplications in Pharma Industry, 16-18th Dec, 2015, JNTU, Hyderabad. (Poster No. 315)
8. Title: **Electrochemical Properties of 2–Substituted benzimidazole derivatives,**National Conference on Frontiers in Chemical Research and Analysis,24-25 July,2015, St. Fransis College for Women, Hyderabad.
9. Title: **Green Synthesis of copper (II) benzimidazole polymeric complex**, International Conference on Environment and Energy(ICEE), 15-17th Dec, 2014, JNTU, Hyderabad. (Poster No. 156).
10. Title: **Synthesis and characterization of Benzimidazole-Amino Acid Conjugates** ,National Conference on ‘Frontiers of Chemical Research (NCFCR-2013),25-26 October, 2013, Department of chemistry, JNTUH, College of Engineering, Hyderabad.
11. Title: **Synthesis and characterization of Transition metal complexes of Benzimidazole derivatives,** National Conference on ‘Role of Chemistry in advanced engineering material (RCAME-2013), 26-27 July,2013,Vasavi College of Engineering, Hyderabad.

**List of Conferences and seminars conducted:**

1. Three Day International Conference on Recent advances in Chemistry and Chemical Engineering ICRACACE-2016
2. National Conference on Frontiers of Chemical Research – NCFCR 2013
3. National Seminar on "Recent Advances in Heterocyclic Chemistry" Nov.2011