

# CURRICULUM VITAE

## Personal Information:



Gender: Male

**Dr. Kotresh K.R**

S/O Rajashekarappa K

Kyathanahally, Nagavedi Post

Arasikere, Hassan-573126, Karnataka, INDIA

**e-mail:** [kotresh59@gmail.com](mailto:kotresh59@gmail.com)

**Phone:** [+91 9686426406](tel:+919686426406), [+91 6361966939](tel:+916361966939)  
(INDIA)

Date of birth: 05.12.1988

Nationality: Indian

## PRESENT JOB STATUS:

**Lecturer, Department of Food Technology**

Kuvempu University, Shankaraghatta,

Shivamoga, Karnataka, India

## WORK EXPERIENCE

### TEACHING:

2023

To

Till Date

**Lecturer, Department of Food Technology**

Kuvempu University, Shankaraghatta,

Shivamoga, Karnataka, India

2021

To

2023

**Lecturer, Department of P.G Studies and  
Research in Biochemistry,**

Kuvempu University, Shankaraghatta,

Shivamoga, Karnataka, India



## **WORK EXPERIENCE**

2013 to  
2020

## **RESEARCH**

**Research scholar,**

Department of P.G Studies and Research in  
Biochemistry.

Kuvempu University, Shivamoga, Karnataka,  
India

## **EDUCATION AND TRAINING:**

2013-2020

**Doctorate of Philosophy (Biochemistry)**

Department of P.G studies and Research in  
Biochemistry.

Kuvempu University, Shivamoga, Karnataka,  
India

2010-2012

**M.Sc (Biochemistry)**

Department of P.G studies and Research in  
Biochemistry.

Kuvempu University, Shivamoga, Karnataka,  
India

2007-2010

**B.Sc (Biochemistry, Microbiology,  
Biotechnology)**

JSS College. Ooty road, Mysore – 507725,  
Karnataka, INDIA

## **LIST OF PUBLICATIONS**

### **INTERNATIONAL:**



1. **K. R. Kotresh**, S. E. Neelagund, M. C. Mahesh, B. Avinash (2018). Immobilization of Hyperthermostable  $\alpha$ -Amylase Using Magnetite [Fe<sub>3</sub>O<sub>4</sub>] Nano Particle to Promote the Properties for Industrial Applications. *Journal of Bionanoscience*. 12:1–7. DOI:10.1166/jbns.2018.1579
2. **Kotresh K R**, Shivayogeeswar Neelagund, Gurumurthy D M (2020). Novel *Geobacillus Thermoleovorans* KNG 112 Thermophilic Bacteria from Bandaru Hot Spring: A Potential Producer of Thermostable Enzymes. *Asian Journal of Pharmaceuticals and Clinical Research*. 13(1): 134-141. DOI: <http://dx.doi.org/10.22159/ajpcr.2020.v13i1.36008>
3. Mahesh Midatharahalli Chikkanna, Shivayogeeswar Neelgund, **Kotresh K. Rajshekarappa** (2018). Green synthesis of Zinc oxide nanoparticles (ZnO NPs) and their biological activity. *SN applied sciences*. A springer nature journal. 1-117 <https://doi.org/10.1007/s42452-018-0095-7>
4. **Kotresh Kyathanahally Rajashekarappa**, Gurumurthy Dummi Mahadevan, Shivayogeeswar Eshwarappa Neelagund<sup>a</sup>, Madhuri Sathynarayana, Divya Vijaya, Sikandar I. Mulla (2021). Decolorization of Amaranth R I and Fast red E azo dyes by thermophilic *Geobacillus thermoleovorans* KNG 112. *Journal of chemical technology and biotechnology*. DOI: [10.1002/jctb.6834](https://doi.org/10.1002/jctb.6834)
5. Kirthan Bhadravathi Ramashetty, Prabhakara Mustur Channabasappa, Bhojyanaik Halehatti Seetyanaik, Ereshanaik, Viswanath Ranganai, Amith Nayak Peerya Nayak Hemla Nayak, Ravikumar Shivakumar & **Kotresh Kyathanahally Rajashekarappa** (2021). Fabrication, depiction, DNA interaction, anti-bacterial, DFT and molecular docking studies of Co(II) and Cu (II) complexes of 3 methyl-1-phenyl-4-[(E)-(pyridin-2-yl)diazonyl]-1H-pyrazol-5-ol ligand. *Nucleosides, Nucleotides & Nucleic Acids*. <https://doi.org/10.1080/15257770.2021.1991373>
6. Husna Tabasum, Neelagund S.E, Harsha Raj G, **Kotresh K.R**, Avinash B, Gowtham M.D, Sulochana N (2022). Double deaths due to domestic carbon monoxide poisoning correlated with medicolegal autopsy and laboratory studies. *Biomedicine*. <https://doi.org/10.51248/v42i2.1305>
7. Husna Tabasum, S.E. Neelagund, **K.R. Kotresh**, M.D. Gowtham, N. Sulochana (2022). Estimation of chlorpyrifos distribution in forensic visceral samples and body



fluids using LCMS method. *Journal of Forensic and Legal Medicine*. [DOI: 10.1016/j.jflm.2022.102423](https://doi.org/10.1016/j.jflm.2022.102423)

8. Sinchanamurugaraj, Avinash B, **Kotresh K R** & S E Neelagund. Microwave assisted synthesis of *veteria indica* mediated AgNPs: A study on antibacterial mechanism and antioxidant efficacy. *International journal of nanotechnology and application*. 2022
9. Biosynthesis, mosquito larvicidal potential, and anticancer activities of gold nanoparticles from *Acacia sinuata* seed extract. Rajkumar S. Meti<sup>1</sup>, Neelagund S. E. Deepadarshan Urs, Dharmappa K. K, **Kotresh K.R.** *Biomedicine*: 2023; 43(2): 684-689.
10. [Madhuri Sathyanarayana](#), [Avinash Basavarajappa](#), Kotresh K Rajashekarappa, [Shivayogeeswar Neelagund](#). A Network Pharmacology-Based Prediction and Verification of the Major Protein Targets of Bmnpv Obtained From Modern Sequencing Technology against Plant Active Ingredients. *Der Pharma Chemica* 5(2):11-20. 2023.

#### **REVIEW ARTICLES**

- 1 Avinash B, **Kotresh K.R** and Neelagund S.E, Coconut's Bud Rot by Phytophthora palmivora: A Destructive Disease. *Journal of Mycology & Mycological Sciences*. [DOI:10.23880/oajmms-16000162](https://doi.org/10.23880/oajmms-16000162)

#### **BOOK PUBLISHED**

1. Immobilization of thermostable amylase on magnetite nanoparticles to enhance the sustainability (2022). **Kotresh K.R**, Avinash B, Shivayogeeswar Neelagund. *Lap lambert academic publishing*.

#### **Research Articles under Review-7**

- 1 Purification and immobilization of *Geobacillus thermoleovorans* KNG 112 thermostable  $\alpha$ -amylase onto modified magnetite nanoparticles. **Kotresh K R**, Neelgund S.E, Avinash.B. Rajeshwara N. Achur, Madhuri sathyanarayana, Sikandar I. Mulla, Gurumurthy D.M. *Colloid and interface B:Biointerfaces*.
- 2 A Study of forensic acute poisoning cases registered in Western range, Karnataka,



- India- a retrospective study. Husna Tabasum, S.E. Neelagund, **K.R. Kotresh**, B. Avinash, S. Madhuri, M.D. Gowtham, N. Sulochana. Forensic Science International
- 3 Decolorization and degradation of hazardous azo dye Methyl Red by thermophilic *Geobacillus* sp: metabolites characterization and Biototoxicity. **Kotresh K R**, Neelgund S.E, Avinash.B. *Extremophiles*
  - 4 Bioremedial approach of *geobacillus thermoleovorans* KNG 112 for textile azo dye (congo red) degradation. Adarsh K.B, **Kotresh K R**, Neelgund S.E, Avinash.B, *AMB express*
  - 5 Multi-functional studies of microwave irradiated silver nanoparticles synthesized using Bixa orellana seed extract. Sahana A.G, Avinash B, **Kotresh K.R**, Neelagund, S.E. African journal of biochemistry research.
  6. Biogenic synthesis of MgO nanoparticles using Datura metel Leaves extract and its performance as an antimicrobial and photocatalytic agent. Prathap A; R. Viswanath; G Vishnu; Adarshgowda N; **Kotresh K R**. Inorganic Chemistry Communications.
  7. GC-MS/MS Analysis of Chlorpyrifos in Forensic Samples with varied survival time. Husna Tabasum, Neelgund S E, **Kotresh K R**, Gowtham M D, Sulochana N. Forensic Science, Medicine and Pathology.

**List of International, National, and State Level Conferences, workshops, seminars, symposiums, and CNEs attended.**

1. Oral presentation at national conference on “**Green Chemistry-Need of the Universe**” held on 28<sup>th</sup> February 2015, at Sri Shivalingeshwara Swamy Govt. First Grade College & PG Centre, Chennagiri, Davanagere, Karnataka.
2. Poster presentation at national conference on “**Recent Trends in Applied Science & Technology**” held on 26<sup>th</sup> & 28<sup>th</sup> October 2017, at Department of Basic Sciences, Alliance College of Engineering and Design, Bangalore.
3. Oral presentation at international conference on “**Multidisciplinary Approaches of Science: Nanotechnology-A Boon for Mankind**” held on 18<sup>th</sup> & 19<sup>th</sup> September 2018, at Department of Life Sciences, School of Sciences, Garden City University, Bangalore.



### **Conference and workshop attended**

1. Served as organizing committee member in the national conference on **“Impact of Food on Life Style Diseases”** IFLSD conducted by Department of Food Technology, Jnannasahyadri shankaraghatta, Kuvempu university, held on March 28<sup>th</sup> & 29<sup>th</sup> 2023
2. Participated in IP Awareness/Training program under on **”National intellectual property awareness mission”** held on 30<sup>th</sup> July 2022. Organized by Intellectual Property Office, India.
3. Served as organizing committee member in the workshop on **“phytomedicines: extraction, purification, in vitro and in vivo studies”** conducted by jnannasahyadri shankaraghatta and sahyadri college, shivmoga. Kuvempu university, under the department of science and technology (DST-STUTI) scheme, held on July 24<sup>th</sup> to 30<sup>th</sup> 2022.
4. Served as organizing committee member in the national conference on **“Impact of Research Development in Life Sciences”** conducted by department of Biochemistry, Jnannasahyadri shankaraghatta, Kuvempu university, held on March 30<sup>th</sup> & 31<sup>st</sup> 2022.
5. Participated in the workshop on **“role of analytical techniques in the quality assurance of pharmaceuticals”** held on 17<sup>th</sup> January 2017, organised by KLEU’S Prabhakar kore basic science research center [BSRC], Belagavi, Karnataka, INDIA.
6. Participated in science academies lecture workshop (SALW) on **role of plant taxonomy in conservation of biodiversity**, held on 10<sup>th</sup> and 11<sup>th</sup> November 2016, organised by department of applied botany, kuvempu university, Shankaraghatta. Karnataka.
7. Participated in international conference at **“7<sup>th</sup> bangalore INDIAA NANO 2014”** held on 4<sup>th</sup> and 6<sup>th</sup> December 2014, at Lalith ashok hotel, bangalore.
8. Participated in international conference at **“6<sup>th</sup> bangalore INDIA NANO 2013”** held on 4<sup>th</sup> and 6<sup>th</sup> December 2013, at Lalith ashok hotel, Bangalore.

### **Annexure V:**

### **RESEARCH SUPERVISOR FOR POST-GRADUATES**



2020

Optimization of *GT* KNG112 under submerged fermentation for decolorization of textile azo dyes (Amaranth Ri and Fast red E).

2021

Decolourization and degradation of hazardous azo dye methyl red by thermophilic *Geobacillus* sp. Metabolites characterization and biotoxicity

2022

1. Decolorization and degradation of carcinogenic sulfonated azo dye methyl orange by thermophilic *Geobacillus* sp: Metabolites characterization and Bio toxicity  
2. Bioremedial approach of *Geobacillus* thermoleovorance KNG 112 for textile azo dye congo red degradation

2023

1. Isolation and production optimization of thermostable amylase from *Geobacillus stearothermophilus* strain KTRAM  
2. Decolorization and degradation of carcinogenic sulfonated azo dye methyl orange by *Escherichia* sp. Strain SAMKS 007



3. Decolorization and degradation of textile  
azo dye congo red by *Bacillus smithi* strain  
AMPNK