

## CURRICULUM VITAE

### **Prof. K. Kantharaju**

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#### **1. EDUCATION**

**Ph.D** : Bangalore University (Peptide Science, Supervisor : Prof. V.V.Sureshabu)  
**M.Sc** : Central College Campus, Bangalore University (Organic Chemistry)  
**B.Sc** : Govt. Science College, Tumkur (Physics, Chemistry, Mathematics)

#### **2. HONORS AND AWARDS**

- ❖ **Department of Biotechnology** : Postdoctoral Research Fellow-2006-2009.
- ❖ **Senior Research Fellowship** : CSIR, Govt. of India, New Delhi-2004-2006.
- ❖ **NET-LS** : Chemical Science conducted by CSIR-June 2000.
- ❖ **Master's degree** : Fifth Rank to the University (Second to Organic)
- ❖ **National merit scholarship** : UGC, Govt. of India-1998.
- ❖ **Seed Money for Young Scientist Researcher** : VGST-GoK, 2016
- ❖ **RCUB-Vice-Chancellor's Appreciation for Research Project (UGC-MRP)-2015 & 2016**

#### **3. TEACHING INTEREST**

- ❖ Bio-organic chemistry
- ❖ Organic reactions & mechanisms
- ❖ Analytical chemistry
- ❖ Application of spectroscopy in organic chemistry  
(UV-Vis, FT-IR, NMR, Chiroptical and Mass spectrometry)

#### **4. RESEARCH AREAS**

- ❖ Development of Greener method organic synthesis
- ❖ Chemical Biology
- ❖ Peptides and peptidomimetics chemical synthesis
- ❖ Fragment-based drug discovery/SAR studies
- ❖ Protein –ligand interaction studies
- ❖ Organic molecule structural study using NMR and X-ray



#### **5. RESEARCH PROJECTS COMPLETED/ONGOING**

| S.No | Title of Project  | Funding Agency             | Duration               | Amount Sanctioned (Rs.)   |
|------|---|----------------------------|------------------------|---------------------------|
| 01   | Structure-activity relationship and peptidomimetic studies of antimicrobial peptide "Indolicidin".  | UGC-Major Research Project | 2015-18<br>(Completed) | 13,70,000/-               |
| 02   | Metallopeptidomimetic-Based Coordination Polymers Deposition on Graphite Substrates: Effects of Backbone Chain & Local Surface Structure  | VGST-GoK                   | 2016-17<br>(Completed) | 6,00,000/-<br>(Six lakhs) |
| 03   | Design and Synthesis of Novel Derivatives of Curcumin from Curcuma longa Linn: Evaluation of Cyclic Voltammetry and Biological Properties | RCUB                       | 2017-18<br>(Completed) | 1,00,000/-<br>(One Lakh)  |

|    |  |                        |           |                         |
|----|--|------------------------|-----------|-------------------------|
| 04 | Development and encourage higher education studies for OBCs/M students | OBCs/M-GoK             | 2016      | 5,00,000/- (Five lakhs) |
| 05 | Advanced Materials for Clean Energy, Health and Environment            | DST-FIST (Exe. Member) | 2016-2021 | 1,25,00,000/-           |

6. i) **Research guidance for Ph.D. students:06**

| S.No | Student name              | Title of the Thesis  | Registration Number   |
|------|---------------------------|--|-----------------------|
| 1    | Santosh Y Khatavi         | Novel agro-waste derived catalysts: application in the synthesis of heterocyclic molecules, peptides and their biological activities | Reg.No.Chem/14-15/14) |
| 2    | Prashant B Hiremath       | Development of green protocols for the synthesis of heterocycles and their biological applications                                   | Reg.No.Chem/14-15/12) |
| 3    | Yamanappagouda Amaregouda | Design, synthesis and characterization of biodegradable blended membranes and their application studies.                             | Reg.No.Chem/18-19/02) |
| 4    | Krishnappa Badiger        | Synthesis, characterization, electrochemical behaviour and pharmacological studies of some designed heterocyclic derivative          | Reg.No.Chem/18-19/01) |
| 5    | Vasant Tonape             | Design, synthesis and characterization of bioconjugated heterocycles with biopolymer and their pharmacological evaluation.           | Reg.No.Chem/18-19/15) |
| 6    | Raju. S. Shekhanavar      | Surface functionalized magnetic nanoparticles and their applications in organic synthesis and environmental remediation              | Reg.No.Chem/18-19/14) |

ii) **M.Sc students project dissertation guided: 19 \**

**7. NUMBER OF RESEARCH PUBLICATIONS/PATENT/CONFERENCE/INVITED TALK**

|  |  |
|--|--|
| ✓ <b>Published papers</b>                  | : 38 (National & Int. Journals)                          |
| ✓ <b>Patent</b>                            | : 01 (USA)   |
| ✓ <b>Book chapter</b>                      | : 02 (ISBN: 978-1-78984-553-2 & ISBN: 978-1-78801-862-3) |
| ✓ <b>Poster presentation/participation</b> | : 48   |
| ✓ <b>Invited talk</b>                      | : 20   |

**8. ACADEMIC & ADMINISTRATIVE ACTIVITIES**

| S.No | Position | Details   |
|------|----------|---|
| 1    | Chairman | Dept. of Chemistry, RCUB (18/09/2017 to 18/09/2019)   |
| 2    | Chairman | Board of Examiners, Dept. of Chemistry, RCUB (2015–2016 & 2018-2019) & B.Sc (Sugar Science & Tech). |
| 3    | Member   | Doctoral Committee, Dept of Chemistry @ RCUB  |
| 4    | Member   | Board of Examiners in the Dept. of Chemistry @ RCUB, RIE, Mysore, Karnatak Uni, Dharwad.            |
| 5    | Member   | Board of Studies @ Dept. of Chemistry, B.Sc (Sugar Sci. & Tech), RCUB                               |
| 6    | Member   | AAA committee (2014-15), RUSA and NAAC documents preparation  |

|    |                      |  |
|----|----------------------|--|
| 7  | Coordinator          | OBCs /M, RCUB (2015 -2018)   |
| 8  | President            | PG-Gymkhana, RCUB (2017-2019)  |
|    | Member               | PG-Gymkhana Guidelines preparation -2019                                   |
| 10 | Coordinator          | Department of Botany, RCUB -2019 to till date                              |
| 11 | Member-<br>Exe       | PG-Teachers Association, RCUB-March 2019 to till date                      |
| 12 | Chairman &<br>Member | Department Council Meeting-2017-2019 (Chairman) & Member in other periods. |