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**AS ON  
15 JAN 2019**

AKK

## CURRICULUM VITAE

### ACADEMIC QUALIFICATIONS

- **B.Sc. Degree:** Second Class from University of Mysore (1989).
- **M.Sc. (Chemistry) Degree:** First Class from University of Mysore (1991).
- **Ph.D. Degree:** Chemistry from University of Mysore (2002). Thesis entitled "**SYNTHESIS OF BIOLOGICALLY ACTIVE HETEROCYCLES VIA IMINES, AZIRIDINES AND N-ARYL MALEIMIDES**".
- **State Level Education Test:** For Lectureship conducted by the Government of Karnataka, 1994.

### PROFESSIONAL CAREER

- **Lecturer:** 1991-93, DOS in Chemistry, Manasagangotri, University of Mysore, Mysore.
- **Lecturer:** 1993-94, Govt. PU College, Malebennur, Govt. of Karnataka.
- **Lecturer:** 1994-2000, Yuvaraja's College, University of Mysore, Mysore.
- **Senior Scale Lecturer:** 2000-2005, Yuvaraja's College, University of Mysore, Mysore.
- **Selection Grade Lecturer:** 2005-2008, Yuvaraja's College, University of Mysore, Mysore.
- **Associate Professor:** 2008-till this day, Yuvaraja's College, University of Mysore, Mysore.

### ADMINISTRATIVE CAREER

- **Faculty Advisor:** University Hostel, 9<sup>th</sup> Main, Saraswathipuram, Mysore, [Nov 1996-June 2000].
- **Head of the Department:** Department of Chemistry, Yuvaraja's College, [Sept 2004- Sept 2006; Nov 2010- Sept 2011; Nov 2013-Feb 2014].
- **Course Coordinator:** PG Course, Department of Chemistry, Yuvaraja's College, [Oct 2013- Oct 2015]
- **Coordinator:** UGC Funded Remedial Coaching Classes, Yuvaraja's College, [2013-2014].
- **Convener:** Extension Activities Committee, Yuvaraja's College, [2014-2015].

### AWARDS

- Recipient of Teacher Research Fellow, University of Mysore, Mysore [Jun 1998- Oct 2000].

### THRUST AREA OF RESEARCH

Synthetic Organic Chemistry, Bioorganic Chemistry, Pharmaceutical Chemistry, Analytical Chemistry, Crystallographic Studies.

## RESEARCH PROJECTS UNDERTAKEN

- **UGC Funded Minor Research Project:** Synthesis, characterisation and studies on their biological activity of pyrazoles and 1,3,4-oxadiazoles; UGC No. F.128/MRP/UGC-SWRO/2009 Dated 10.04.2009. Rs. 78,000=00. [Jan 2010-Nov 2011]. [COMPLETED].
- **UGC Funded Major Research Project:** Synthesis, characterization of coumarin based heterocycles and their efficacy as antimicrobial and antioxidant agents; UGC No. F.42-230/2013 (SR) Dated 25.05.2013. Rs. 9,44,300=00. [2013-2015] [COMPLETED].

## MEMBERSHIP/POSITIONS HELD IN ACADEMIC JOURNALS/SOCIETIES

- **Life member for Scientific Bodies:**
  - ❖ Indian Council of Chemists. [Membership No. LF-683].
  - ❖ Indian Science Congress Association. [Membership No. L27731].
- **Editorial Board of Scientific Journals:**
  - ❖ Chief Editor, Journal of Chemistry Science.
  - ❖ Associate Editor, Journal of Pharmacy and Nutrition Sciences, Germany.
  - ❖ Member, IOSR Journal of Applied Chemistry.
  - ❖ Associate Editor, International Journal of Chemical Research, Bioinfo Publications.
  - ❖ Member, Standard Research Journal of Medicinal Plants, Standard Res. Journals, UK.
  - ❖ Member, Sci-Africa Journal, UK.
- **Reviewer for Scientific Journals:**
  - ❖ **Elsevier Group Journals;**
    - Saudi Pharmaceutical Journal.
    - European Journal of Medicinal Chemistry
    - Chemical Data Collections.
    - Arabian Journal of Chemistry.
    - Bioorganic and Medicinal Chemistry Letters.
    - Bioorganic Chemistry.
  - ❖ **Springer Group Journals;**
    - Research on Chemical Intermediates.
  - ❖ **Bentham Science Journals;**
    - Letters in Drug Design & Discovery.
    - Mini-Reviews in Medicinal Chemistry.
  - ❖ **Tandem Journals;**
    - Journal of Biomolecular Structure and Dynamics.
  - ❖ **Life Science Global, Germany;**
    - Journal of Pharmacy and Nutrition Sciences.
  - ❖ **OMICS Publishing Journals, USA;**
    - Medicinal Chemistry: Current Research.
  - ❖ African Journal of Pure and Applied Chemistry (AJPAC), Academic Journals, Nairobi.
  - ❖ Standard Research Journal of Medicinal Plants, Standard Research Journals, UK.
  - ❖ IOSR Journal of Applied Chemistry. IOSR Publications, India.
  - ❖ International Journal of Medicinal Plant Research, Int. Scholars Journals Ltd. USA.
  - ❖ Philippine Journal of Science, Philippines.
  - ❖ Journal of Analytical Oncology, Germany.

- ❖ International Journal of Pharmacy and Pharmaceutical Sciences, Innovare Academics.
- ❖ Advancement in Science and Technology Research, NetJournals.
- ❖ Journal of the Chemical Society of Pakistan.
- ❖ Journal of Proteomics & Bioinformatics.
- ❖ Journal of Heterocyclic Communications.
- ❖ Sky Journal of Journal of Microbiology Research
- ❖ European Journal of Chemistry.
- ❖ International Research Journal of Pure and Applied Chemistry, Sciencedomain.

#### M.PHIL DISSERTATIONS/Ph.D. THESIS EVALUATED

<i>Evaluation</i>	<i>M.Sc. Dissertations</i>	<i>M.Phil. Dissertations</i>	<i>Ph.D. Thesis</i>
<i>As Internal</i>	<b>23</b>	<b>10</b>	<b>05</b>
<i>As External</i>	<b>25</b>	<b>04</b>	<b>07</b>

#### RESEARCH CONTRIBUTIONS AND SCINTIFIC IMPACT FACTOR

<i>Research Publications</i>	<b>140</b>	<i>Papers Presented In International/ National Conferences/Seminars</i>	<b>33</b>
<i>Citations</i>	<b>1190+</b>	<i>Highest Citations of Individual Paper</i>	<b>72</b>
<i>h-Index</i>	<b>19</b>	<i>i10-Index</i>	<b>37</b>

#### ORIGINAL CONTRIBUTIONS IN RESEARCH

- Developed Amberlyst-15, a recyclable heterogeneous catalyst for the synthesis of pyrazolines,. *Research on Chemical Intermediates*, **2018**, DOI: 10.1007/s11164-018-3501-2.; *Bioorganic Chemistry*, **2018**,
- Developed Citrous extract (lemon Juice) as a green solvent for the synthesis of pyrazolines, *Bioorganic Chemistry*, **2017**, 73, 109-120.
- Developed **CrO<sub>2</sub>** as new reagent for the *in situ* generation of nitrile imines in 1,3-dipolar cycloaddition reactions, *IOSR Journal of Applied Chemistry*, **2012**, 1(4), 20-23.
- Developed **Silver nitrate** mediated **Chloramine-T** as new synthetic reagent for the aziridination of alkenes, *Tetrahedron*, **2001**, 57, 6993-6996.
- Developed **Chloramine-T** as analytical reagent for the estimation of ascorbic acid and estimation of pharmaceutical vitamin tablets, *Oxidation Communications*, **2002**, 25(4), 566-570. [Adopted in practical classes syllabi of under graduate course].
- Developed **Chloramine-T** as analytical reagent for the determination of number of keto groups in an organic compound, *Chemia Analityczna*, (Warsaw), **2001**, 46, 269-74. [Adopted in practical classes syllabi of post graduate course].

#### MEMBERSHIP IN ACACEMIC BODIES

- **Member:**
  - ❖ Board of Studies (PG), Yuvaraja's College (Autonomous), Mysore. [2018-19].

- ❖ Board of Studies in Environmental Science (UG), Yuvaraja's College, Mysore. [2018-19].
- ❖ Board of Examinations in Molecular Biology (PG), Yuvaraja's College, Mysore. [2016-17].
- ❖ Board of Appointment/Chemistry, Maharani's Science College for Women, Mysore. [2013].
- ❖ Board of Studies in Molecular Biology (PG), Yuvaraja's College, Mysore. [2012-13].
- ❖ Doctoral Committee for Molecular Biology (Ph.D), Yuvaraja's College, Mysore. [2012].
- ❖ Board of Studies (PG), St. Phelomena's College (Autonomous), Mysore, [2011-13].
- ❖ (Special Invitee), Board of Studies (PG), Yuvaraja's College (Autonomous), Mysore. [2010-11].
- ❖ Board of Examinations (UG), JSS College for Women (Autonomous), Mysore. [2009-10].
- ❖ Board of Examinations (UG), JSS College (Autonomous), Mysore. [2007-08; 2010-11].
- ❖ Board of Studies (UG), Govt. College for Boys (Autonomous), Mandya. [2006-07].
- ❖ Board of Examinations (PG), Yuvaraja's College (Autonomous), Mysore. [2005-06; 2012-13].
- ❖ Academic Council, Yuvaraja's College (Autonomous), Mysore. [2005-06; 2010-11, 2018-19].

➤ **Chairman:**

- ❖ Board of Examinations (PG), Yuvaraja's College (Autonomous), Mysore. [2010-11].
- ❖ Board of Studies (UG), Yuvaraja's College (Autonomous), Mysore. [2005-07].
- ❖ Board of Examinations (UG), Yuvaraja's College (Autonomous), Mysore. [2005-06].

**PARTICIPATION IN TRAINING/ORIENTATION PROGRAMMES AND REFRESHER COURSES**

➤ **Visiting Professor:** Delivered Special Lectures to

- ❖ Faculty and Students, Topic: "Basics of Organic Reactions" JSS College for Women, Saraswathipuram, Mysuru. [5<sup>th</sup> August 2016].
- ❖ M.Sc. Students, Kuvempu University (Dist. Edu.), St. Phelomena's College Centre, Mysore. [2008-12].
- ❖ M.Sc. Chemistry Students, St. Phelomena's College (Autonomous), Mysore. [2008-12].
- ❖ M.Sc. Analytical Chemistry Students, UBDT Engg. College, Davanagere, Kuvempu University. [2008].
- ❖ M.Phil. Degree Students, Periyar University (Dist. Edu.), Mysore Centre, Mysore. [2007].
- ❖ M.Phil. Degree Students, Madhurai Kamaraj University (Dist. Edu.), Mysore Centre, Mysore. [2007].
- ❖ M.Phil. Degree Students, Madhurai Kamaraj University (Dist. Edu.), Bangalore Centre. [2007].

➤ **Participant:**

- ❖ UGC sponsored one day national conference on research advancements in chemical biology, held at JSS College of Science, Arts, Commerce and Science, Ooty Road, Mysore, India. [Mar 23, 2017].
- ❖ Two day workshop on Revision and Reconstructing of M.Sc. Chemistry syllabus under CBCBCASS, held at Academic Staff College, University of Mysore, Mysore. [Feb 01-02, 2012].
- ❖ State Level Seminar on Relevance of Chemistry in Chemical Biology, held at St. Phelomena's College, Mysore, India. [Mar 21-22, 2011].
- ❖ Two day National Seminar on Relevance of Chemistry in Contemporary Society, held at PES College of Science, Arts and Commerce, Mandya, India. [Mar 20, 2009].
- ❖ Refresher course under the college teacher orientation scheme of UGC by the Department of Chemistry, Kuvempu University. [08.11.2005 to 28.11.2005].
- ❖ National Seminar cum Workshop on Role of Language in Teaching Science for Undergraduate Courses, held at J.S.S. College, Ooty Road, Mysore, India. [Dec 17-18, 2004].

- ❖ UGC sponsored Chemistry Workshop on Syllabus Blow-up for B.Sc., Degree Semester Scheme of University of Mysore, held at Maharani's Science College for Women, Mysore. [July 15-17, 2004].
- ❖ Refresher course under the college teacher orientation scheme of UGC by the Academic Staff College, University of Mysore. [10.10.2003 to 30.10.2003].
- ❖ Refresher course under the college teacher orientation scheme of UGC by the Academic Staff College, University of Mysore. [03.11.2000 to 28.11.2000].
- ❖ Orientation program under the college teacher orientation scheme of UGC by the Academic Staff College, University of Mysore. [02.03.1998 to 28.03.1998].
- ❖ Workshop on Incorporating Environmental Education into the Curriculum-Teaching Methodology, Org by C.P.R. Environmental Education Centre, Chennai, held at Yuvaraja's College. [Dec 30, 1997].
- ❖ Short term course on Unix and C, Computer applications organized by the University of Mysore at Yuvaraja's college, Mysore. [20.05.1996 to 20.08.1996].

### EXTENTION ACTIVITIES

- ❖ **Judge:** District Level Two day Science model exhibition competitions for Higher Primary and High School Students; organized by MHRD, Govt. of India, Ministry of Science and Technology, and primary education, Govt. of Karnataka and Dist. Education and Training Institute, Mysore held at Vivekanada High School, Kuvempu Education Trust, Mysore. [10-11, Sept 2015].
- ❖ **Judge:** State Level Three day Science model exhibition competitions for Higher Primary and High School Students; organized by MHRD, Govt. of India, Ministry of Science and Technology, and primary education, Govt. of Karnataka and Dist. Education and Training Institute, Mysore held at St. Joseph School, Jayalakshmpuram, Mysore. [24-26, Nov 2015].

### RESEARCH PUBLICATIONS

1. Malledevarapura Gurumurthy Prabhudeva, Karthik Kumara, Achutha Dileep Kumar, Mylarappa B Ningappa, Neratur K Lokanath, **Kariyappa Ajay Kumar**, Amberlyst-15 catalyzed synthesis of novel thiophene-pyrazoline derivatives: spectral and crystallographic characterization and anti-inflammatory and antimicrobial evaluation, *Research on Chemical Intermediates*, **2018**, 44(11), 6453-6468. DOI: [10.1007/s11164-018-3501-2](https://doi.org/10.1007/s11164-018-3501-2)
2. Achutha Dileep Kumar, Srinivasan Bharath, Rekha N Dharmappa, Shivalingegowda Naveen, Neratur Krishnappagowda Lokanath, **Kariyappa Ajay Kumar**, Design, synthesis and spectroscopic and crystallographic characterisation of novel functionalized pyrazole derivatives: biological evaluation for their cytotoxic, angiogenic and antioxidant activities, *Research on Chemical Intermediates*, **2018**, 44(9), 5635-5652. DOI: [10.1007/s11164-018-3445-6](https://doi.org/10.1007/s11164-018-3445-6)
3. Achutha Dileep Kumar, Malledevarapura Gurumurthy Prabhudeva, Srinivasan Bharath, Karthik Kumara, Neratur Krishnappagowda Lokanath, **Kariyappa Ajay Kumar**, Design and Amberlyst-15 mediated synthesis of novel thienyl-pyrazole carboxamides that potently inhibit Phospholipase A2 by binding to an allosteric site on the enzyme, *Bioorganic Chemistry*, **2018**, 80, 444-452. DOI: [10.1016/j.bioorg.2018.06.023](https://doi.org/10.1016/j.bioorg.2018.06.023)
4. Malledevarapura Gurumurthy Prabhudeva, Nagamallu Renuka, **Kariyappa Ajay Kumar**, Synthesis of thiophene-pyrazole conjugates as potent antimicrobial and radical scavengers, *Current Chemistry Letters*, **2018**, 7(3), 73-80. DOI: [10.5267/j.ccl.2018.8.001](https://doi.org/10.5267/j.ccl.2018.8.001)



5. Vagish ChannaBasappa, Karthik Kumara, Lokanath K Neratur, **Ajay Kumar Kariyappa**, Synthesis, crystal structure studies and Hirshfeld surface analysis of 6-chloro-7-hydroxy-4-methyl-2*H*-chromen-2-one, *Chemical Data Collections*, **2018**, 15-16, 134-142. DOI: [10.1016/j.cdc.2018.05.005](https://doi.org/10.1016/j.cdc.2018.05.005)
6. Naveen Shivalingegowda, Karthik Kumara, Dileep Kumar Achutha, **Ajay Kumar Kariyappa**, Lokanath Neratur Krishnappagowda, Structural elucidation and Hirshfeld Surface Analysis of a novel pyrazole derivative: 3-(Benzo[d][1,3]dioxol-5-yl)-1-(3-chlorophenyl)-5-(2,4-dichlorophenyl)-4,5-dihydro-1*H*-pyrazole, *Chemical Data Collections*, **2018**, 15-16, 89-96. DOI: [10.1016/j.cdc.2018.04.006](https://doi.org/10.1016/j.cdc.2018.04.006)
7. Karthik Kumara, A. Dileep Kumar, S. Naveen, **K. Ajay Kumar**, N.K. Lokanath, Synthesis, spectral characterization and X-ray crystal structure studies of 3-(benzo[d][1,3]dioxol-5-yl)-5-(3-methylthiophen-2-yl)-4,5-dihydro-1*H*-pyrazole-1-carboxamide: Hirshfeld surface, DFT and thermal analysis, *Journal of Molecular Structure*, **2018**, 1161, 285-298. DOI: [10.1016/j.molstruc.2018.02.068](https://doi.org/10.1016/j.molstruc.2018.02.068)
8. Karthik Kumara, A. Dileep Kumar, **K. Ajay Kumar**, N.K. Lokanath, Synthesis, spectral and X-ray crystal structure of 3-(3-methoxyphenyl)-5-(3-methylthiophen-2-yl)-4,5-dihydro-1*H*-pyrazole-1-carboxamide: Hirshfeld surface, DFT calculations and thermo-optical studies, *Chemical Data Collections*, **2018**, 13-14, 40-59. DOI: [10.1016/j.cdc.2018.01.001](https://doi.org/10.1016/j.cdc.2018.01.001)
9. V. M. Sunitha, H. R. Manjunath, A. Dileep Kumar, **K. Ajay Kumar**, N. K. Lokanath, V. Manivannan, S. Naveen, Synthesis, characterization, crystal and molecular structure studies of a novel (*E*)-3-(2, 3-dichlorophenyl)-1-(*p*-tolyl)prop-2-en-1-one, *Indian Journal of Scientific Research*, **2017**, 16(1), 107-111. DOI:
10. Shyam, D.M. Lokeshwari, **K. Ajay Kumar**, H.P. Jayadevappa, Synthesis and antifungal potency of novel 4-aryl-2-(2,4-dichlorophenyl)-1,4-benzothiazepine derivatives, *International Journal of ChemTech Research*, **2017**, 10(13), 09-13. DOI:
11. Devirammanahalli Mahadevaswamy Lokeshwari, **Kariyappa Ajay Kumar**, Synthesis of isoxazoles via 1,3-dipolar cycloaddition reactions: Pharmacological screening for their antioxidant and antimicrobial activities, *Asian Journal of Chemistry*, **2017**, 29(12), 2660-2664. DOI: [10.14233/ajchem.2017.20781](https://doi.org/10.14233/ajchem.2017.20781)
12. Lokeshwari D Mahadevaswamy, **Ajay Kumar Kariyappa**, An environmentally benign lemon juice mediated synthesis of novel furan conjugated pyrazole derivatives and their biological evaluation. *Pharmaceutical Chemistry Journal*, **2017**, 51(8), 670-677. DOI: [10.1007/s11094-017-1672-6](https://doi.org/10.1007/s11094-017-1672-6)
13. Kanchipura R. Raghavendra, Nagamallu Renuka, **Kariyappa Ajay Kumar**, Sheena Shashikanth, An accessible route for the synthesis of novel lignan derivatives and their biological evaluation. *Pharmaceutical Chemistry Journal*, **2017**, 51(8), 661-669. DOI: [10.1007/s11094-017-1671-7](https://doi.org/10.1007/s11094-017-1671-7)
14. S. Naveen, A. Dileep Kumar, M. V. Deepa Urs, **K. Ajay Kumar**, N. K. Lokanath, Ismail Warad, An orthorhombic polymorph of (*E*)-1-(benzo[d]-[1,3]dioxol-5-yl)-3-(2,3-dichlorophenyl)prop-2-en-1-one, *IUCrData*, **2017**, 2(11), x 171590. DOI: [10.1107/S2414314617015905](https://doi.org/10.1107/S2414314617015905)
15. Renuka Nagamallu, Pavithra Gurunanjappa, **Ajay Kumar Kariyappa**, Synthesis of coumarin appended 1, 3-oxazines as potent antimicrobial and antioxidant agents, *Pharmaceutical Chemistry Journal*, **2017**, 51(7), 582-589. DOI: [10.1007/s11094-017-1657-5](https://doi.org/10.1007/s11094-017-1657-5)
16. Devirammanahalli Mahadevaswamy Lokeshwari, Vivek Hamse Kameshwar, **Ajay Kumar Kariyappa**, Synthesis of furan tethered 2-pyrazolines via 1,3-dipolar cycloaddition reactions: *In vitro* evaluation for their antioxidant and antimicrobial activities, molecular docking and ADMET studies, *Biointerface Research in Applied Chemistry*, **2017**, 7(5), 2158-2165. DOI:

17. Karthik Kumara, Naveen Shivalingegowda, Lokeshwari D. Mahadevaswamy, **Ajay Kumar Kariyappa**, Neratur Krishnappagowda Lokanath, Crystal structure studies and Hershfield surface analysis of 5-(4-methoxyphenyl)-3-(thiophen-2-yl)-4,5-dihydro-1H-pyrazole-1-carbothioamide. *Chemical Data Collections*, **2017**, 9-10, 251-262. DOI: [10.1016/j.cdc.2016.11.006](https://doi.org/10.1016/j.cdc.2016.11.006)
18. Devirammanahalli Mahadevaswamy Lokeshwari, Dileep Kumar Achutha, Bharath Srinivasan, Naveen Shivalingegowda, Lokanath Neratur Krishnappagowda, **Ajay Kumar Kariyappa**, Synthesis of novel pyrazole analogues with potent affinity anti-inflammatory effect mediated by inhibition of phospholipase A2: Crystallographic, *in silico* docking and QSAR analysis. *Bioorganic Medicinal Chemistry Letters*, **2017**, 27, 3806-3811. DOI: [10.1016/j.bmcl.2017.06.063](https://doi.org/10.1016/j.bmcl.2017.06.063)
19. Malledevarapura Gurumurthy Prabhudeva, Srinivasan Bharath, Achutha Dileep Kumar, Shivalingegowda Naveen, Neratur Krishnappagowda Lokanath, Bantaganahalli Ningappa Mylarappa, **Kariyappa Ajay Kumar**, Design and environmentally benign synthesis of novel thiophene appended pyrazole derivatives as anti-inflammatory and radical scavenging agents: crystallographic, *in silico* modeling, docking and SAR characterization, *Bioorganic Chemistry*, **2017**, 73, 109-120. DOI: [10.1016/j.bioorg.2017.06.004](https://doi.org/10.1016/j.bioorg.2017.06.004)
20. N. Manjula, D.M. Lokeshwari, A. Dileep Kumar, N. Renuka, **K. Ajay Kumar**, Synthesis of isoxazolines: Small molecules of potent antimicrobial activity, *Der Pharma Chemica*, **2017**, 9(13), 7-10. DOI:
21. N. Kishan, N. Renuka, **K. Ajay Kumar**, H.P. Jayadevappa, Synthesis, characterization and antimicrobial activity studies of novel pyrazole derivatives. *Der Pharma Chemica*, **2017**, 9(12), 55-58. DOI:
22. Basavaraju, A. Dileep Kumar, N. Renuka, C.B. Vagish, **K. Ajay Kumar**, 1,4- Benzothiazepine analogues: Synthesis, characterization and antimicrobial evaluation, *Der Pharma Chemica*, **2017**, 9(11), 67-70. DOI:
23. N. Kishan, A. Dileep Kumar, N. Renuka, **K. Ajay Kumar**, H.P. Jayadevappa, Synthesis, spectral analysis and antimicrobial activity studies of new pyrazole analogues, *Der Pharma Chemica*, **2017**, 9(11), 62-66. DOI:
24. Dileep Kumar Achutha, Vivek Hamse Kameshwar, Mylarappa Bantaganahalli Ningappa, **Ajay Kumar Kariyappa**, Synthesis and *in vitro* biological evaluation for antioxidant, anti-inflammatory activities and molecular docking studies of novel pyrazole derivatives, *Biointerface Research in Applied Chemistry*, **2017**, 7(3), 2040-2047. DOI:
25. Pavithra Gurunanjappa, **Ajay Kumar Kariyappa**, An easy procedure for synthesis of 1,3,4-Oxadiazines: A potential antimicrobial agents, *Asian Journal of Chemistry*, **2017**, 29(8), 1687-1689. DOI: [10.14233/ajchem.2017.20540](https://doi.org/10.14233/ajchem.2017.20540)
26. Devirammanahalli Mahadevaswamy Lokeshwari, Nanjappagowda Dharmappa Rekha, Bharath Srinivasan, Hamse Kameshwar Vivek, **Ajay Kumar Kariyappa**, Design, synthesis of novel furan appended benzothiazepine derivatives and *in vitro* biological evaluation as potent VRV-PL-8a and H<sup>+</sup>/K<sup>+</sup> ATPase inhibitors. *Bioorganic & Medicinal Chemistry Letters*, **2017**, 27, 3048-3054. DOI: [10.1016/j.bmcl.2017.05.059](https://doi.org/10.1016/j.bmcl.2017.05.059)
27. G. Thanushree, C.B. Vagish, **K. Ajay Kumar**, H.P. Jayadevappa, Pyrazole carbothioamide analogues: Synthesis, characterization and antifungal evaluation, *International Journal of ChemTech Research*, **2017**, 10(5), 236-240. DOI:

28. Ananda, A. Dileep Kumar, N. Renuka, **K. Ajay Kumar**, An efficient synthesis of pyrazole carboxamide derivatives and in vitro evaluation for their antimicrobial activity, *International Journal of ChemTech Research*, **2017**, 10(5), 131-135. DOI:
29. A.L. Amrutha Kala, Karthik Kumara, D.M. Lokeshwari, **K. Ajay Kumar**, N.K. Lokanath, Synthesis, crystal structure and Hirshfeld surface analysis of (*E*)-1-(2,3-dichlorobenzylidene)-2-phenylhydrazine. *Der Pharma Chemica*, **2017**, 9(9), 122-129. DOI:
30. Pavithra Gurunanajappa, Vivek Hamse Kameshwar, **Ajay Kumar Kariyappa**, Bioactive formylpyrazole analogues: Synthesis, antimicrobial, antioxidant and molecular docking studies, *Asian Journal of Chemistry*, **2017**, 29(7), 1549-1554. DOI: [10.14233/ajchem.2017.20562](https://doi.org/10.14233/ajchem.2017.20562)
31. D. Ramyashree, K.R. Raghavendra, A. Dileep Kumar, C.B. Vagish, **K. Ajay Kumar**, Synthesis, characterization and antimicrobial activities of chalcones and their post transformation to pyrazole derivatives, *Asian Journal of Chemistry*, **2017**, 29(7), 1538-1542. DOI: [10.14233/ajchem.2017.20561](https://doi.org/10.14233/ajchem.2017.20561)
32. Dileep Kumar Achutha, Karthik Kumara, Naveen Shivalingegowda, Lokanath Neratur Krishnappagowda, **Ajay Kumar Kariyappa**, Synthesis of ethyl 5-(4-chlorophenyl)-3-methyl-1-phenyl-1H-pyrazole-4-carboxylate by an unusual protocol: Crystal and molecular structure, Hirshfeld surface analysis, *Chemical Data Collections*, **2017**, 9-10, 89-97. DOI: [10.1016/j.cdc.2017.04.002](https://doi.org/10.1016/j.cdc.2017.04.002)
33. M.G. Prabhudeva, M. Prabhuswamy, A. Dileep Kumar, N. K. Lokanath, S. Naveen, K. Ajay Kumar, Synthesis, crystal and molecular structure and antimicrobial studies of 1-(3-chlorophenyl)-3-(5-chlorothiophen-2-yl)-5-phenyl-4,5-dihydro-1H-pyrazole, *Chemical Data Collections*, **2017**, 9-10, 80-88. DOI: [10.1016/j.cdc.2017.03.005](https://doi.org/10.1016/j.cdc.2017.03.005)
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2. Renuka Nagamallu, **Ajay Kumar Kariyappa**, "Stereo selective synthesis of coumarin appended 1,3-oxazines as potent antioxidant agents", 103<sup>rd</sup> Indian Science Congress Association (ISCA) conducted National Conference, held at University of Mysore, Mysore, Karnataka. [Abstract No. PP-230, January 3-7, 2016].
3. Pavithra Gurunanajappa, Lokeshwari D.M. and **Ajay Kumar Kariyappa**, "Design and synthesis of new pyrazole tagged carbazone and thiosemicarbazone scaffolds as antimicrobial leads", 103<sup>rd</sup> Indian Science Congress Association (ISCA) National Conference, held at University of Mysore, Mysore, Karnataka. [Abstract No. PP-221, January 3-7, 2016].
4. Renuka N, Rajasekara Prasad K., **Ajay Kumar K.** *Synthesis of pyrimidin-2-ol analogues bearing coumarin, pyrazole and thiophene moiety as potential antimicrobial and antioxidants.* National Conference on Green Methodologies on Sustainable Future (GMSF 2015), KL University, Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh. [Abstract No. OP-21, Mar 13-14, 2015].
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1. **K. Ajay Kumar**, A laboratory manual on "Volumetric Analysis (First Edition)" for I B.Sc., students. : Yuvaraja's College Co-operative Society. Mysore.
2. **K. Ajay Kumar** and K.B. Umesha, A laboratory manual on "Systematic qualitative Organic Analysis (First Edition)" for B.Sc. and M.Sc. students: Yuvaraja's College Co-operative Society.

#### SUPERVISION FOR DOCTORAL (Ph.D) DEGREE



1. **M.G. PRABHUDEVA**; *Synthesis, Characterisation of thiophene based heterocycles and their biological activity*, University of Mysore, External candidate: [Working].
2. **A. DILEEP KUMAR**; *Synthesis, Characterisation of pyrazoles and their biological activity*, University of Mysore, UGC-MRP Fellow: [Working].
3. **C.B. VAGISH**; *Synthesis and biological evaluation of coumarin derivatised triazoles*, University of Mysore, External candidate: [Working].
4. **G. PAVITHRA**; *Synthesis, Characterisation of pyrazole and Oxadiazine derivatives and their biological activity*, University of Mysore, UGC Non-NET Fellow: **UO No. Ex. 9.2/Ph.D/LDM/2010-11 Dated 02.06.2018.**
5. **D.M. LOKESHWARI**; *Synthesis, Characterisation of furan based heterocycles and their biological activity*, University of Mysore, External candidate: **UO No. Ex. 9.2/Ph.D/LDM/2010-11 Dated 02.06.2018.**
6. **N.RENUKA**; *Synthesis, Characterisation of new coumarin based heterocycles and their biological activity*, University of Mysore, UGC Non-NET Fellow: **UO No. Ex. 9.2/Ph.D/RN/2011-12 Dated 19.09.2016.**
7. **M. GOVINDARAJU**; *Synthesis, Characterisation and in vitro biological studies of isoxazole and pyrazole derivatives*, University of Mysore, External candidate: **UO No. Ex. 9.2/Ph.D/MG/2010-11 Dated 15.12.2015.**
8. **P. JAYAROOPA**; *Synthesis, Characterisation and their biological studies of five membered nitrogen heterocycles*, University of Mysore, UGC-FIP Fellow: **UO No. Ex. 9.2/Ph.D/JRP/2009-10 Dated 06.08.2014.**

#### **SUPERVISION FOR M.PHIL DEGREE**

1. **K.P. RENUKA**; *Synthesis and Pharmacological activity of some isoxazolines*, PRIDE, Periyar University, December 2008: [Degree Awarded].
2. **C. CHIDAN KUMAR**; *Kinetics and Mechanism of oxidation of dimethyl glyoxime by chloramine-T in acetonitrile medium*, PRIDE, Periyar University, June 2008: [Degree Awarded].
3. **D.M. LOKESHWARI**; *Synthesis, Characterisation and pharmacological activity of some oxadiazoles*, PRIDE, Periyar University, June 2008: [Degree Awarded].
4. **M. CHANDRAMOULI**; *Synthesis and biological activity of substituted pyrazoles*, PRIDE, Periyar University, June 2008: [Degree Awarded].
5. **MALLANNA**; *Synthesis and Pharmacological activity of substituted isoxazoles*, PRIDE, Periyar University, February 2008: [Degree Awarded].
6. **A.P. KIRAN SHANKAR**; *Kinetics and Mechanism of oxidation of dimethyl glyoxime by chloramine-T in ethanol medium*, DDE, Bharathidasan University, January 2008: [Discontinued].
7. **K.R. RAGHAVENDRA**; *Synthesis, characterization of some azo dyes and their applications*, DDE, Alagappa University, December 2007: [Degree Awarded].

8. **B.S. LAKSHMI**; *Synthesis, Characterisation and Biological studies of some five membered heterocycles*, PRIDE, Periyar University, December 2007: [Degree Awarded].
9. **M. GOVINDARAJU**; *Synthesis and antimicrobial activity of substituted isoxazoles*, PRIDE, Periyar University, November 2007: [Degree Awarded].
10. **P. JAYAROOPA**; *Synthesis and characterisation of some biologically potent heterocycles*, PRIDE, Periyar University, October 2007: [Degree Awarded].

#### SUPERVISION FOR M.Sc. DEGREE DISSERTATION WORK

1. **L. VARUN**; *Heavy metal tests for raw materials*, Yuvaraja's College, University of Mysore. Reg. No. YCH16143 [2018].
2. **V.Y. KRISHNA**; *Analysis of raw water and materials washed water*, Yuvaraja's College, University of Mysore. Reg. No. YCH16139 [2018].
3. **K. D. PAVITHRA**; *Heavy metal tests for finished goods*, Yuvaraja's College, University of Mysore. Reg. No. YCH16125 [2018].
4. **MANOJ**; *Analysis of purified water*, Yuvaraja's College, University of Mysore. Reg. No. YCH16120 [2018].
5. **D. RAMYASHREE**; *Synthesis of chalcones and their post transformation to pyrazole derivatives and their antimicrobial activities*, Yuvaraja's College, University of Mysore. Reg. No. YCH15134 [2017].
6. **N. MANJULA**; *Synthesis, characterization and antimicrobial activity of novel isoxazoline derivatives*, Yuvaraja's College, University of Mysore. Reg. No. YCH15125 [2017].
7. **BASAVARAJU**; *1,4-Benzothiazepine analogues: Synthesis, characterization and antimicrobial evaluation*, Yuvaraja's College, University of Mysore. Reg. No. YCH15107 [2017].
8. **M. ANANDA**; *An efficient synthesis of pyrazole carboxamides derivatives and in vitro evaluation for their antimicrobial activity*, Yuvaraja's College, University of Mysore. Reg. No. YCH15102 [2017].
9. **B.R. SHRUTHI**; *Characterisation and identification of vitamins in pharmaceutical sample*, Yuvaraja's College, University of Mysore. Reg. No. YCH14133 [2016].
10. **S. PRADEEP KUMAR**; *Validation of the synthesis of N-Boc-L-proline*, Yuvaraja's College, University of Mysore. Reg. No. YCH14126 [2016].
11. **M. MALLIKARJUNA**; *Validation of the synthesis of m-nitro benzoic acid*, Yuvaraja's College, University of Mysore. Reg. No. YCH14118 [2016].
12. **M. CHANDRASHEKAR**; *Synthesis of novel bioactive pyrazole carbothioamides and their antifungal activity*, Yuvaraja's College, University of Mysore. Reg. No. YCH14105 [2016].
13. **D. AKSHAY KUMAR**; *Validation of the synthesis of N-chloroacetyl-L-tyrosine*, Yuvaraja's College, University of Mysore. Reg. No. YCH14103 [2016].
14. **S.P. VIJAYCHAND**; *Synthesis and characterization of novel thiophene appended pyrazoline carbothioamide analogues*, Yuvaraja's College, University of Mysore. Reg. No. YCH13131 [2015].

15. **C. N. THILAK KUMAR**; *Synthesis and characterization of pyrazoline carbothioamide analogues bearing thiophene moiety*, Yuvaraja's College, University of Mysore. Reg. No. YCH13128 [2015].
16. **V. K. SHRUTHI**; *Synthesis and characterization of pyrimidin-2-thione derivatives*, Yuvaraja's College, University of Mysore. Reg. No. YCH13124 [2015].
17. **SHWETHA G HEGDE**; *Synthesis and antifungal activity of pyrimidin-2-one analogues*, Yuvaraja's College, University of Mysore. Reg. No. YCH13122 [2015].
18. **D. VINODA**; *Extraction of Calcium Salt of (-)-Hydroxy Citric Acid from Garcinia Combogia Fruit Rind*, Yuvaraja's College, University of Mysore. Reg. No. YCH12133 [2014].
19. **K. MANOJ**; *Extraction of Sodium Salt of (-)-Hydroxy Citric Acid from Garcinia Combogia Fruit Rind*, Yuvaraja's College, University of Mysore. Reg. No. YCH12118 [2014].
20. **THARANUM AFSHA**; *Validation of Extraction and Purification of Caffeine*, Yuvaraja's College, University of Mysore. Reg. No. YCH12130 [2014].
21. **M.G. RASHMI**; *Extraction and Purification of Curcuminoids from Turmeric*, Yuvaraja's College, University of Mysore. Reg. No. YCH11125 [2013].
22. **H.N. HARISH**; *Extraction and Estimation of Boswellic Acid from Boswelliasarreta Gum*, Yuvaraja's College, University of Mysore. Reg. No. YCH11110 [2013].
23. **G.K. ANIL KUMAR**; *Preparation of Multimix Micronutrient Fertilizers and Estimation of the Zinc Component in Fertilizers*, Yuvaraja's College, University of Mysore. Reg. No. YCH11104 [2013].

#### EXAMINER FOR Ph.D THESIS ADJUDICATION

1. **A.M. JAMSHEER**; *Insilico approach to predict the proneness to tuberculosis through SNP analysis of human VDR gene and designing potential anti TB drug leads against isoniazid resistant strains*. Bharathiar University, Coimbatore, Tamil Nadu. [2018]
2. **C. MANIVANNAN**; *Synthesis, Characterization, Biological and Physicochemical Properties of 2-Pyrazoline derivatives by Ultrasonic Irradiation Method*. Manonmanian Sundaranar University, Tirunelveli, Tamil Nadu. [2017].
3. **MARRI PRADEEP KUMAR**; *Synthesis, Structural characterization, DNA interactions and biological studies of copper (II) binary complexes derived with 4-amino 3,5-dimethyl isoxazole Schiff bases*. Osmania University, Hyderabad, Telangana. [2016]
4. **C. BALAMURUGAN**; *Synthesis, Structure-Parameter correlation and antimicrobial evaluation of some substituted 1,3-diphenyl propenone compounds*. Manonmanian Sundaranar University, Tirunelveli, Tamil Nadu. [2016].
5. **B.A. BRUNDHA**; *Synthesis and Characterization of N-substituted acrylamide based Nanocomposite Hydrogels*. Manonmanian Sundaranar University, Tirunelveli, Tamil Nadu. [2015].
6. **S. ANBARASAN**; *Synthesis and Swelling Behavior of Poly(N-cyclohexylacrylamide-co-Acrylamide/Ionic monomer) Hydrogels*. Bharathiar University, Coimbatore, Tamil Nadu. [2015].
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