

## CURRICULAM VITAE OF Prof. Balakrishna Kalluraya

### UNIVERSITY/INSTITUTION: Mangalore University



1) Name : Dr. Balakrishna Kalluraya

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2) Educational Qualifications : M.Sc., Ph.D.

Graduation and above	Subject	Class	Year	University
B.Sc.	PCM	I	1980	Mysore
M.Sc	Organic Chemistry	I	1982	Mysore
Ph.D.	Organic Chemistry	-	1988	Mangalore

Subject taught with specializations : Chemistry (Organic&Spectroscopy)

3) Date of Birth

Month	Date	Year
08	15	1959

4) Positions held

	From	To	Institution
Lecturer	1988	1993	Mangalore University
Senior Lecturer	1993	1998	Mangalore University
Reader	1998	2006	Mangalore University
Professor	2006	Till date	Mangalore University

5) A) Research Area : Synthetic and Medicinal Chemistry

(1,3-Dipolar Addition Reactions, Green techniques, Discovery of New Reagents, Biological Activity, Drug design)

B) Publications :

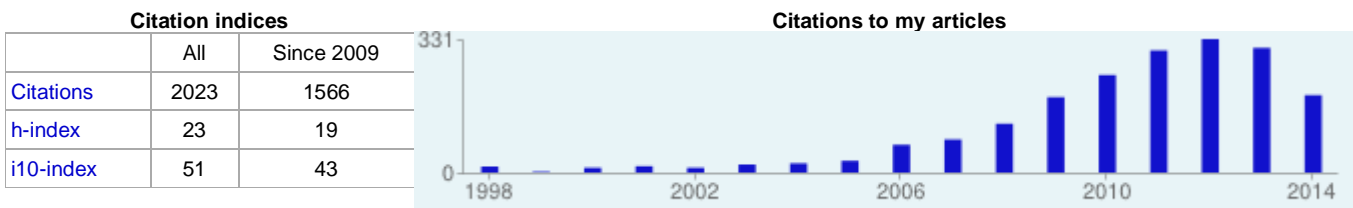
National and International Journals: 324

Conference presentation: 144

Books/Chapters	Publication	Year, level
Laboratory manual for II semester M.Sc. Qualitative analysis	Hand Book	

B) Research done and significant contributions.

- My group is one among the three groups working on **Mesoionic compounds** in entire Nation
- We have developed some simpler methods for the nitration of furfural which is unique in nature
- Some of our compounds have shown interesting pharmacological activity particularly the sydnone compounds as promising anti-inflammatory agents
- Development of Green Technique for the synthesis of novel biologically active heterocycles.
- We are also developing new reagents for organic synthesis
- Our work is well received in the International Chemical Sciences and many of the papers are cited frequently by many researchers.



M.Phil's Guided : 6

- 1).Mr.Suresh.N.Shetty 1991
- 2)Smt.Vasantha Kumari 1993
- 3) Smt.Jancy K.John 1995

- 4) Mr.Suresh K.J            1996  
 5) Mr.Ramesh M.Chimbalkar 1996  
 6) Mr.Vinayaka A.C            2010

6) Ph. D's Guided            :        24 + 2 submitted + 9 working

Name	Title of Thesis	Year	University
1. Alphonsus D'souza	Some contributions to the chemistry of nitrogen and sulphur containing heterocycles	1994	Mangalore University
2. Srinivas S	Studies on synthetic products of pharmaceutical importance.	1997	Mangalore University
3. Suresh N Shetty	Studies on the synthesis and biological activity of some furan and thiophene derivatives	1998	Mangalore University
4. Vishwanath P	Studies on the synthesis of biologically active nitrogen, oxygen and sulphur containing heterocycles.	1999	Mangalore University
5. Prashanth Gunaga	Studies on synthesis, biological and analytical applications of some nitrogen and sulphur containing 1,2,4-triazole derivatives.	2001	Mangalore University
6. Arun M Isloor	Studies on the synthesis and biological activity of some pharmaceutically important heterocyclic compounds	2002	Mangalore University
7. Abdul Rahiman M	Studies on synthesis, characterization, biological and	2002	Mangalore University

	pharmacological activities of some Sydnone derivatives		
8. Ramesh M Chimbalkar	Studies on the synthesis, biological and analytical applications of some nitrogen heterocycles	2003	Mangalore University
9. Ganesha Rai B	Studies on synthetic heterocycles of biological interest	2004	Mangalore University
10. Gururaja R	Synthesis and biological studies of some nitrogen containing heterocycles	2005	Mangalore University
11. Jyothi C Hegde	Some contributions to the chemistry of mesoionic compounds	2006	Mangalore University
12. Priya V Frank	Synthetic and biological studies on some bridgehead nitrogen heterocycles	2006	Mangalore University
13. Janardhana Nayak	Synthetic and biological studies of N-bridged heterocycles derived from 1,2,4-triazoles	2007	Mangalore University
14. Satheesha Rai N	Some contribution to the chemistry of nitrogen heterocycles	2007	Mangalore University
15. Lingappa B	Designing, synthesis and pharmacological activities of some pyrimidine derivatives.	2007	Mangalore University
16. Jyothi N Rao	Synthetic studies on some nitrogen and oxygen containing heterocycles	2010	Mangalore University
17. Babu M	Synthetic and biological studies on nitrogen, sulphur and oxygen containing heterocycles	2010	Mangalore University
18. Sujith K. V.	Synthetic, spectral and pharmacological studies of some	2010	Mangalore University

	nitrogen and oxygen heterocycles		
19. Adithya Adhikari	Synthetic studies on pharmacologically important nitrogen and oxygen heterocycles	2011	Mangalore University
20. Girisha K. S.	Synthesis of biologically potential some novel heterocyclic compounds and development of some new synthetic methodologies	2011	Mangalore University
21. Ramaprasad G. C.	Studies on synthesis and biological activities of some novel heterocyclic compounds.	2013	Mangalore University
22. Shyama Prasad T.S	Ultrasonic and conductometric behaviour of some species of some aminoacids in condensed phase	2013	Mangalore University
23. Nithinchandra	Synthetic, structural and biological studies of some mesoinic and nitrogen heterocycles.	2013	Mangalore University
24. Sushma	Studies on synthetic and biological evaluation of some novel heterocyclic compounds.	Submitted	Mangalore University
25. Ashoka	Studies on synthesis and Biological Activities of Some Novel Pyrimidine derivatives.	26-09-2009 (Registered)	Mangalore University
26. Shobhitha Shetty	Synthetic, Structural and Biological studies of Pyrazole containing heterocycles	Submitted	Mangalore University
27. Sahana Mallya	Cycloaddition approaches for the synthesis of some novel heterocycles	Jan 2015	Mangalore University

28. Shyma P. C.	Synthesis, Structural Elucidation and biological activity of some heterocycles	26-07-2011 (Registered)	Mangalore University
29. Vidyashree Jois	Synthetic studies on some Biologically active Heterocycles bearing Nitrogen and Sulphur.	Submitted	Mangalore University
30. Vishwanath T.	Synthesis of some novel thiasydnonones and their biological activities	Registered	Mangalore University
31. Anish kumar K	Undergoing coursework	Registered 12-01-2015	Mangalore University
32. Asma	Undergoing coursework	Registered 12-01-2015	Mangalore University
33. Nkurunziza Jean Baptiste	Undergoing coursework	Registered 12-01-2015	Mangalore University
34. Manju N	Undergoing coursework	Registered 12-01-2015	Mangalore University

7) Awards and Recognitions

**One Time UGC BSR award of Rs.7 Lakh from University Grants Commission, New Delhi for guiding 15 Students for their Ph.D. in the year 2011**

8) Membership & Fellowship of Professional Bodies:

- a) Executive committee member of the Indian Council of Chemists
- b) Served as Executive committee member, Joint secretary, Vice-president of Mangalore University Teachers Association
- c) Convener of Chemical Research Society of India, Local Chapter for Surathkal and Mangalore

9) Visits abroad :

a) Visited Malaysia and Singapore to attend International conferences during 2012.

b) Visited Dubai-Abudabi to attend International conference and to deliver invited talk during June 2014

a) Through Scholarships/Fellowships

- Mangalore University Fellowship during 1983-1988 (Organic)
- Visiting fellow at JNCASR Bangalore during 1997

b) Academic Meetings/Conference presenting paper Presiding/ Invited Speaker

- **Sectional President of the 27<sup>th</sup> Indian Council of Chemists held at Gurukul Kangri University, Haridwar (2008).**
- **Best poster award – National Conference on Emerging Materials, Synthesis and Applications – August 2009, Kannur University.**
- **Best oral presentation in the Kannada Vijnana Sammelana held at Agricultural University, Dharwad during 2012 on the topic SYDNONES**
- Invited lecture delivered on 27<sup>th</sup> conference of Indian Council of Chemists held at Gurukul Kangri University, Haridwar during 26-28th December 2008.
- Invited lecture at National seminar on Recent Trends in Chemistry 2008, held at Govt. College Kasaragod, Kerala during 6-7th November 2008.
- Delivered an Invited Talk on topic “Green Chemistry” in the two day National Conference held at Milagris College, Kalyanapur during 17<sup>th</sup> July 2008.
- Gave a Special Lecture on “Meso-Ionic Heterocycles” in a two day National Seminar at NITK Surathkal on 18<sup>th</sup> February 2009
- Delivered an Invited Lecture on “Disconnection Approach in Organic Synthesis” in the State Level Seminar organized by Medicinal Chemistry Department, S.D.M. College Ujre, on 8<sup>th</sup> March 2009

- Delivered an invited talk on “Retro Synthetic Analysis” in the two day state level seminar held at Boomi Reddy College, Bidar during 28-29 March 2009.
- Gave a special lecture on “Research Methodology” at NGSM, Pharma College, Deralakatte during 8<sup>th</sup> April 2009
- Gave an invited talk in the Three day National conference on “Emerging Trends in Chemical Sciences” held at Payyanur college ,Payyanur during 22-24 ,October,2009 on the topic “Disconnection Approach in organic Synthesis”
- Gave an invited Talk in the one day National Seminar on “Recent Advances in Pharmaceutical Research” held at S.G.S.College of Pharmacy,Harapanahalli on 12th October 2010 on the topic “Disconnection Approach in Drug Designing”
- Gave an Talk on “Chemistry of Drugs” at Bhandarkars college ,Kundapur on 16<sup>th</sup> October 2010,in the Students Club .
- Gave an invited talk in the one day National symposium on “Spectral techniques” held at Dayananda Sagar College of Pharmacy at Bangalore on 8<sup>th</sup> September 2011 on the topic “Mass spectroscopy in Structural elucidation of Drug Molecules.
- Gave an invited Talk in the “INTERNATIONAL Symposium On Challenges in Drug Discovery Programme-2011” held at KSOU during 16-17,February 2011 on the Topic “An Unusual aromatics as possible bio-active Agents’.
- Gave an Talk on “Problems and Solutions in Higher Education” in the one day meeting “RASACHETANA”held at St.Agnes college, Mangalore on 2<sup>nd</sup> September 2011.
- Gave an invited Talk in the One day National Seminar on “Green and Sustainable Chemistry” (NCGSC-2012) held at Tumkur University on 25<sup>th</sup> February 2012 on the Topic “Green Techniques in Organic Synthesis”.
- Gave an invited talk in the International Conference on Biologically active Molecules (ICBAM-2012) held at Gandhigram Rural Institute, Deemed



University, Dindigul, Tamilnadu during 8-10, March, 2012 on the Topic “Mesoionic Compounds as Possible Bioactive Molecules”.

- Gave two lectures on i) Mass spectroscopy ii) Retro analysis in organic synthesis” in the Refresher Course held at Christ college ,Bangalore on 28-03-2012.
- Gave an invited Talk in the One day symposium on “Recent Trends in Pharmaceutical Sciences” held at S.D.M .College Ujire on the topic Green Techniques in Organic Chemistry on 24<sup>th</sup> December 2012.
- Gave an invited Talk in the National Symposium on “ Recent advances in chemical biology-an overview” at Govt. science college Hassan on the Topic “ Meso-ionic compounds as possible Bioactive agents during 15-16 March 2013.
- Gave an invited Talk in the One day National seminar at Payyanur college on the Topic “Green Techniques in Chemistry” during March 2013.
- Gave an invited Talk in the Two day National seminar at Govt College ,Kasaragod on the Topic “Green Techniques in Organic Synthesis” on 8<sup>th</sup> October 2013.
- Gave an invited Talk in the Two day UGC sponsored National seminar on “Recent trends in Chemical Biology: An Overview(RTCB-2013) on the topic **Regioselective synthesis of novel spiropyrrolidine library through multicomponent, one-pot 1,3-dipolar cycloaddition reaction of Azomethine ylides to chalcones at Teresian college Mysore during 25-26 October 2013**
- Gave an invited Lecture in the 26<sup>th</sup> ICC conference held at Karnataka University,Dharwad during 26-29<sup>th</sup> November 2013 on the topic **Regioselective synthesis of novel spiropyrrolidine library through multicomponent, one-pot 1,3-dipolar cycloaddition reaction.**
- Gave an General talk at St.Philomena college Puttur under the auspicious of Science Forum on the topic “Green Techniques in Chemical reactions” on 23<sup>rd</sup> January 2014.

- Gave an invited Talk in the Two day National symposium on “ Recent Advances in Chemical Sciences” at Alvas college Moodabidri on the topic “ Green Techniques in Organic Synthesis” on Saurday the 8<sup>th</sup> of March 2014.
- Gave an invited Talk in the Third International conference of Indian Council of Chemists held at Dubai during 11-14 June 2014 on the topic entitled “ Pyrazole derivatives as possible Bio active agents”.
- Gave an Keynote address in the two days National conference on “Modern Trends in Chemical Research and Their Applications” held at N.M.A.M.Institute of Technology,Nitte during 10th July 2014.
- Gave an invited talk in the Two days Lecture work Shop organized at Kumadavathi First Grade College Shikaripura In Collaborations with Indian Academy of Sciences, Bangalore, Indian National Academy, New-Delhi and National Academy of Sciences India, Allahabad during 2-3<sup>rd</sup> August 2014.
- Gave an valedictory address on the “One-day UGC sponsored State Level Seminar on Chemistry of Nanomaterials and applications” held at Sri Venkataramana Swamy College Vidyagiri, Bantwal on 23<sup>rd</sup> August 2014.
- Gave an invited Talk in the Two day National Conference on Recent Advances in Bio Organic Chemistry held at sharada Villas college, Mysore during 18-19<sup>th</sup> September 2014 on the topic Green Techniques in Chemistry
- Gave the key Note address in the one day State level conference on “Emerging Trends in Medicinal chemistry” held at St.Philomena college Mysuru on 10<sup>th</sup> March 2015

10) Research Projects: (Period, agency, amount)

Funding Agency	Title of Project	Amount	Period
UGC	Synthesis of some novel pyrazoles by	5.3 lakhs	2003-2006

	the dipolar addition to sydnone		
KSCSTE	Synthesis of some ibuprofen analogues as possible bio-active agents	6.8 lakhs	2004-2007
BRNS/DAE	Synthesis of some novel epoxy resins carrying heterocyclics and study of electron beam radiation effects on their mechanical and chemical property	14 lakhs	2008-11
UGC	Dipolar addition reaction: Synthesis of some novel 1,2,3-triazole derivatives as possible bioactive agents	3.8 lakhs	2009-12
BRNS/DAE	Evaluation of Radioprotective potential of some Indigeneous Medicinal plants of Western Ghats of Karnataka having Phytochemicals containing thiol moiety	14.8 lakhs	2011-14
UGC-SAP	Co-ordinator	75 Lakh	2013-2018

b) Special programmes like SAP, FIST if you were co-ordinator/Dy Co-ordinator:

Participant in the Department SAP programme during 2007-12.

**Co-ordinator for UGC SAP from May 2013 onwards. 75 lakh**

11) Other significant contributions:

a) Administrative position held

- i. **Chairman, Dept. of Chemistry, Mangalore University - January 2010 – December 2011.**
- ii. **Chairman ,U.G & P.G.BOS in Chemistry, Mangalore university,May-2013 –May 2014**
- iii. **Chairman, P.G.B.O.S in Bio-Chemistry, Mangalore University - 2006 onwards**
- iv. **Chairman P.G.BOS in Industrial Chemistry, Mangalore University, September-2012 onwards.**

- v. **Chairman , Fire & Safety Management, Mangalore University,May-2013 onwards.**
- vi. **Chairman, P.G.B.O.S in Medicinal Chemistry, Tumkur University – April 2008 -10**
- vii. Chairman, P.G.B.O.E in Bio-Chemistry, Mangalore University – 2004 to 2006
- viii. Chairman, P.G.B.O.E in Organic & Analytical Chemistry, Mangalore University – 2007 -2014
- ix. Chairman P.G.BO.E in Chemistry,Applied Chemistry 2009-2011 &2012
- x. Chairman Ph.D.BO.E in Bio-Chemistry during May-June-2013
- xi. Chairman, L.I.C. of Mangalore University to inspect colleges
- xii. **Member, Mangalore University Academic Council ,February 2015 onwards**

b) Membership of University authorities

- i) Member, PG-BOA in Chemistry at Tumkur University during 2011
- ii) Member ,PG-BOA in Organic Chemistry at Karnataka University during 2012
- iii) Member,PG-BOA in Chemistry at Central University,Kerala ,Kasaragod during 2013
- iv) Member BOA in Chemistry at Bangalore University during 2015
- v)Member, P.G.B.O.S in Chemistry, Mangalore University from June 2006 onwards
- vi) Member, P.G.B.O.S in Chemistry, Manipal University from March 2009 -11
- Vii)Member P.G. BOS in Chemistry,Gulbarga University from June 2011 onwards
- viii) Member P.G.BOS in Chemistry & Industrial Chemistry,Sri Krishnadevaraya University, Bellary from January 2013 onwards
- vix) Member P.G.BOS in Chemistry,Central University,Kerala,Kasaragod from March 2014 onwards
- x) Member P.G.BOS in Chemistry,Bangalore University,Central College from June 2014
- xi) Member PG ,BOS in Chemistry,S.D.M.Autonomous college Ujire for 2014-16

xii) Member PG, BOS in Organic Chemistry, Mysore University, Manasagangothri during 2013-till date

xiii) Member PG, BOS in Material Sciences, Mysore University, Manasagangothri during 2015-till date

xiv) Member PG BOS in Chemistry, St. Agnes Autonomous College during 2012 onwards ( University Nominee)

xv) Member, P.G.B.O.E in Chemistry, Mangalore University from June 2006 onwards

xvi) Member, P.G.B.O.E in Chemistry, Gulbarga University	2003
	2007
	2008

xvii) Member, P.G.B.O.E in Chemistry, Karnataka University	2005
	2008

xviii) Member, P.G.B.O.E., Bangalore University	2009
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xix) Member, P.G.B.O.E in Yuvaraja Autonomous College, Mysore	2007
	2009

xx) Doctoral committee member of Nitte University, Nitte 2009-11

xxi) Member P.G. BOE in Industrial Chemistry, Kuvempu University, during 2011-2012

xxii) Member P.G. BOE in Chemistry, Sahyadri Autonomous college, Shimogga during 2011-12

xxiii) Member P.G. BOE in Pharmaceutical Chemistry, Kuvempu University during 2013

xxiv) Member P.G. BOE in Organic Chemistry, Kuvempu University during 2014.

xxv) Member PG, BOE in Chemistry, St. Agnes Autonomous college, Mangalore during 2011-12

c) National/International Committees/Assignments

i. Treasurer, National Conference on Current Trends in Chemical research (CTCR-2006) held during 13-14 May 2006, in the Department of Chemistry, Mangalore University.

- ii. CONVENER of the International Conference on “Synthetic and Structural Chemistry, ICSSC-2011 ,during 8-10 December 2011 in the Department of Chemistry,Mangalore University
- iii) Executive committee member of Indian Council of Chemists during 2008-2013
- d) Special efforts for curriculum development, teaching, evaluation, etc.
- Referee for many International and National journals of repute.
  - Editorial Body member of “Mediterranean Journal of Chemistry”
  - Syllabus framing for M.Sc. Chemistry, Applied Chemistry, Organic Chemistry and Medicinal Chemistry of Mangalore University and framed syllabus for M.Sc. Medicinal Chemistry, Tumkur University
- e) Any other.
- Actively involved in social activities and member of Tulunadu Educational Society at Mangalore.

## List of Publications of Dr. Balakrishna Kalluraya

### Papers published in Journals

1. On the synthesis of some 1-(5-Nitro-2-furyl)-3-aryl-2-propen-1-ones  
B. S. Holla, **B. Kalluraya** and K. R. Shridhar, *Current Science*, **55**, 73-76 (1986).
2. Studies on Nitro furan Heterocycles Part-II: Synthesis and antibacterial activity of some substituted Nitrofuryl thiazoles.  
B. S. Holla, **B. Kalluraya** and S.Y. Ambekar, *J. Indian Chem. Soc.*, **64**, 494-496(1987)
3. Synthesis of 4-(5-Nitro-2-furfurylidene)amino-3-mercapto-5-(substituted)-1,2,4 triazoles as possible antibacterial agents.  
B. S. Holla, **B. Kalluraya** and K. R. Shridhar, *Current Science*, **56**, 236-238 (1987).
4. Synthesis of some 1-Aryl-3-(5-nitro-2-furyl)-2-propen-1-ones as potential antibacterial agents.  
B. S. Holla, **B. Kalluraya** and K. R. Shridhar, *Current Science*, **56**, 585-588 (1987).
5. Studies on Nitrofurane Heterocycles Part-I: Synthesis and antibacterial activity of 7H-6-(5-

- nitro-2-furyl)-s-triazolo[3,4-b][1,3,4]thiadiazines.  
 B. S. Holla, **B. Kalluraya** and K. R. Shridhar, *Revue Roumaine de Chimie*, **33**, 277- 282 (1988).
6. On the synthesis of some substituted-4-(5-nitro-2-furfurylidene)amino-5-mercapto-1,2,4-triazole and 7H-6-(5-nitro-2-furyl)-triazolo[3,4-b][1,3,4] thiadiazines.  
 B.S. Holla and **B. Kalluraya**, *Indian J. Chem.*, **27B**, 683-685 (1988).
  7. Synthesis, Characterization, Spectral and Antifungal properties of some 5-substituted-1,3,4-oxadiazolin-2-thiones.  
 B. S. Holla, **B. Kalluraya** and S. C. Nath, *J. Fur. Praktische Chimie*, **330**, 549-557, (1988).
  8. Synthesis of some 2,5-diaryloxymethyl-1,2,4-triazolo[3,4-b][1,3,4]thiadiazoles.  
 B. S. Holla, A. D. Souza and **B. Kalluraya**, *J. Indian Chem. Soc.*, **68**, 250-251 (1991).
  9. Reaction of 4-Amino-5-mercapto-1,2,4-triazoles with dibromochalcones and  $\alpha$  - bromochalcones.  
 B. S. Holla, K. R. Shridhar and **B. Kalluraya**, *Indian J. Chem.*, **30B**, 672-675 (1991).
  10. Synthesis and Biological properties of Mannich bases of some 5-substituted-1,3,4-oxadiazol-2-thiones.  
**B. Kalluraya** and S. N. Shetty, *J. Indian Chem. Soc.*, **68**, 424-425 (1991).
  11. Synthesis and biological activity of 3,5-disubstituted-1,3,4-oxadiazole-2-thiones.  
 S. N. Shetty and **B. Kalluraya**, *Chimica Acta Turcica*, **19**, 135-139 (1991).
  12. Mass spectra of some 3-substituted-4-amino-5-mercapto-1,2,4-triazoles and 7H-6-(5-nitro-2-furyl)-s-triazolo[3,4-b][1,3,4]thiadiazines.  
 B. S. Holla and **B. Kalluraya**, *Chimica Acta Turcica*, **19**, 301-302 (1991).
  13. Studies on Nitrofurans Heterocycles Part-III: Synthesis and antibacterial activity of some N-substituted-3-methyl-4-(5-nitro-2-furfurylidene)-2-pyrazolin-5-one.  
 B.S. Holla, **B. Kalluraya** and K. R. Shridhar, *Revue Roumaine de Chimie*, **37**, 1159-1164 (1992).
  14. Synthesis and antibacterial activity of some 5-nitro and 5-(p-nitrophenyl)-2-furfuraldehyde aryloxy acetylhydrazones.  
 B.S. Holla, A.D. Souza and **B. Kalluraya**, *Chimica Acta Turcica*, **20**, 281-285 (1992).
  15. Synthesis and biological activity of Mannich bases of 5-aryl-1,2,4-triazol-3 thiones.

- B. Kalluraya**, S.N. Shetty and Jancy K. John., *Chimica Acta Turcica*, **20**, 173-179 (1992).
16. Synthesis of some 2-arylamino-4-(5-nitro-2-furyl)thiazoles  
B.S. Holla, **B. Kalluraya** and S.N. Shetty, *Indian J. Het. Chem.*, **2**, 61-64 (1992).
17. On the synthesis of some 1-aryl-3-(5-arylfuryl)-2-propen-1-ones.  
**B. Kalluraya** and A. D. Souza, *Chimica Acta Turcica*, **21**, 241-246 (1993).
18. Studies on Nitrothiophene Heterocycles Part-I: Synthesis and biological activity of 7H-6-(5-nitro-2-thinyl)-s-triazolo[3,4-b][1,3,4]thiadiazines.  
**B. Kalluraya**, A. D. Souza and B. S. Holla, *Indian J. Het. Chem.*, **2**, 245-248 (1993).
19. Synthesis of some 3-aryloxymethyl-4-phenyl-1,2,4- triazole-5-thiones and their Mannich bases.  
**B. Kalluraya** and R. Vasantha Kumari, *Indian J. Het. Chem.*, **3**, 61-64 (1993).
20. Synthesis and anti-bacterial properties of Mannich bases of some 3-substituted -4-[5-nitro-2-furfurylidene]amino-1,2,4-triazole-5-thiones  
**B. Kalluraya**, S. Srinivas and B. S. Holla, *Indian J.Het.Chem.*,**3**, 97-100 (1993)
21. Studies on the synthesis and biological activity of some 2,5-disubstituted-1,2,4-triazolo[3,4-b][1,3,4]thiadiazoles.  
B. S. Holla, A. Muralidharan and **B. Kalluraya**, *Revue Roumaine de Chimie*, **39**, 87-90 (1994).
22. Synthesis, structural characterization, crystallographic analysis and antibacterial properties of some nitrofuryl triazolo[3,4-b][1,3,4]thiadiazines.  
B. S. Holla, **B. Kalluraya**, K. R. Shridhar, E. Drake, L.M. Thomas, K.K. Bhandary and M.J. Levine, *Eur. J. Med. Chem.*, **29**, 301-308 (1994).
23. Synthesis Characterization and biological activities of some 3-aryloxymethyl-4-(5-aryl-2-furfurylidene)amino-5-mercapto-1,2,4-triazoles and their Mannich bases.  
**B. Kalluraya** K. J. Suresh, S. Sreenivasa and B. S. Holla, *Chimica Acta Turcica*, **22**, 285-293 (1994).
24. Oxidation of thiourea and some of its organic derivatives with manganese(II) in pyrophosphate and acetate media.  
B. S. Sherigara, K Ishwara Bhat and **B. Kalluraya**, *Oxidation Communication*, **17(3)**, 201-208 (1994).



25. Reaction of 3-substituted-4-amino-5-mercapto-1,2,4-triazoles with acetylinic ketones and  $\alpha$ -bromo-chalcones.  
**B. Kalluraya**, A. D. Souza and B. S. Holla, *Indian J. Chem.*, **33B**, 1017-1022(1994).
26. Studies of arylfuran derivatives Part-III: Synthesis and antibacterial properties of arylfurfurylidene isatin-hydrazones and their Mannich bases  
B. S. Holla, S. Sreenivasa & **B. Kalluraya**, *Boll. Chim. Farmaceutico-Anno*, **133**, 527-531(1994).
27. Studies on the synthesis and biological activity of some 4-(5-aryl-2-furfurylidene)-1,3-disubstituted-2-pyrazolin-5-ones.  
**B. Kalluraya**, Jancy K. John and B. S. Holla, *J. Indian Chem. Soc.*, **72**, 99-101(1995).
28. Synthesis and Characterization of some 1-aminomethyl-3-substituted-4-(5-nitro-2-thienylidene)amino-1,2,4-triazole-5-thiones.  
**B. Kalluraya** and A. D. Souza, *J. Indian Chem. Soc.*, **72**, 137-140 (1995).
29. Synthesis and structural characterization of some nitro thienyl triazolo[3,4-b][1,3,4]thiadiazines  
**B. Kalluraya**, A. D. Souza and B.S. Holla, *Indian J. Chem.*, **34B**, 939-943 (1995).
30. Synthesis and antibacterial activity of 2-substituted-4-(5-nitro-2-thienyl)thiazoles.  
**B. Kalluraya** and A.D. Souza, *Revue Roumaine de Chimie*, **40**, 1183-1188 (1995).
31. Synthesis and biological activity of some 5-substituted-1,3,4-oxadiazole-2-hydrazones.  
**B. Kalluraya**, R. Chimbalkar and B. S. Holla, *Indian J. Het. Chem.*, **5**, 37-40 (1995).
32. Synthesis and biological activity of some 2-aryl-4-coumarino thiazoles.  
**B. Kalluraya**, R. Chimbalkar, P. Vishwanatha and Mohan Kotian, *Indian J. Het. Chem.*, **5**, 153-154 (1995).
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