

## **Dr. Gopal Krishna Rao**

M. Pharm, Ph.D

**Professor & Head,**

**Department of Pharmaceutical Chemistry,  
Al-Ameen College of Pharmacy, Hosur Road,**

**Near Lalbagh Main Gate,**

**Bangalore-560 027.**

Off : 080-22234619

Res : 080-26661853

Fax : 080-22225834

Mob : +919845520441

Email: gkfadnis@gmail.com, gkfadnis@rediffmail.com



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### **Career Goals:**

- Achieving excellence in drug design through the synthesis of newer molecular entities and evaluation of biological activity to arrive at novel drug candidates for various disorders and thereby contribute to the field of medicine. Also train potential younger generation in the field of drug discovery.
  - To excel as able administrator, educator and researcher to contribute to the overall growth of organization in a professional manner.
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### **Personal Profile:**

**Age & Date of Birth** : 44 Years. 9<sup>th</sup> September 1966

**Father** : **Late. Seshagiri Rao Fadnis,**

**Rtd .Asst. Education Officer, Dept. of Education ,Govt of Karnataka**

**Mother** : **Smt.Lakshmi Devi Fadnis**

**Residential Address :** “Sesha Smruthi”, # 101, Gaana Regency,  
Block IV, Yelachenahalli, Kanakapura Main Road,  
Bangalore-560078, Karnataka, INDIA

**Marital Status:** Married

**Spouse:** Mrs.Sumana.G.Rao (Fadnis),

**Children:** 1. Son. - Suhas.G.Fadnis  
2. Daughter- Sanjana.G.Fadnis

#### **EDUCATIONAL QUALIFICATIONS :**

- **B.Pharmacy: Government College of Pharmacy, Bangalore-560027 Bangalore University- 1988 (Second class)**

*(Admission through CET for Pharmacy, ISM and Homeopathy and Secured 45<sup>th</sup> Rank in CET 1984 amongst about 800 candidate )*

- *Qualified in GATE with a percentile of 78.66 and got the UGC fellowship during the post graduation*
- **M.Pharmacy(Pharmaceutical Chemistry) Government College of Pharmacy, Bangalore-560027 Bangalore University- 1990 (First Class)**

*Post Graduate thesis entitled “Synthesis of 2-Amino pyridine derivatives of some recent NSAIDs for antiinflammatroy activity*

*And*

*Modifications in the synthesis of Nitrazepam ”*

- **Ph.D.in Pharmacy(Faculty of Medicine),Bangalore University-Jan.2003**

**Doctoral thesis entitled “*Drug Design, Synthesis of Fluorinated Heterocycles as potential Biomimetic agents*” 2003**

**TEACHING EXPERIENCE : 20 years and 9 months**

**Total No. of years of Teaching experience**

**after obtaining PG qualification : 20 years and 9 months**

**Total No. of years of PG Teaching experience : 16 years**

• **After obtaining PG Qualification** :

Designation	Name of the Institution	Classes taught	Period		Subjects taught
			From	To	
<b>Professor and Head</b>	Al-Ameen College of Pharmacy, Bangalore	M. Pharm,  B. Pharm	<b>June 2005</b>	<b>Till Date</b>	1.Advanced Pharm. Chemistry,
					2.Medicinal Chemistry-II
<b>Professor</b>	Al-Ameen College of Pharmacy, Bangalore	M.Pharm B.Pharm	<b>1<sup>st</sup> April 2001</b>	<b>June 2005</b>	1.Advanced Pharm. Chemistry,
					1.Medicinal Chemistry-II, 2.Pharm.Inorganic Chemistry
<b>Asst. Professor</b>	Al-Ameen College of Pharmacy, Bangalore	M.Pharm B.Pharm	1 <sup>st</sup> October 1995	31 <sup>st</sup> March 2001	1.Advanced Pharm. Chemistry,
					1.Medicinal Chemistry-II, 2.Pharm.Organic Chemistry-II 3.Pharm.Inorganic Chemistry
<b>Lecturer</b>	Al-Ameen College of Pharmacy, Bangalore	B.Pharm  D. Pharm	10 <sup>th</sup> July 1990	30th September 1995	1.Medicinal Chemistry-II, 2..Pharm.Inorganic Chemistry 3.Pharm.Chemistry-I, 4..Pharm.Chemistry-II

**RESEARCH EXPERIENCE: 16 years**

**a. Ph. D Research Projects Completed**

Sl. No	Title of the project	Name of the candidate
1	Synthesis of some bioisosteres of oxygen and sulphur heterocycles of biological interest	Venugopala K. N- (Awarded Ph.D.in Aug.2008 by RGUHS)

**a. Ph. D Research Projects (ongoing)**

Sl. No	Title of the project	Name of the candidate
1	Synthesis and biological evaluation of certain new nitrogen heterocycles	Ramaling B. Kotnal <i>(About to submit thesis)</i>
2	Synthesis of some tricyclic systems of pharmacological interest	Mrs. Ranjit Kaur <i>(Permitted for submission of thesis)</i>
3	Synthesis of quinazolinone analogs of biological interest	Rajasekaran S (Five reports accepted)
4	Development of new organic synthetic methodologies and their application in the synthesis of pharmacologically active molecules	Narendra B. Gowda (Nine reports accepted)

**b. M. Pharm Research work projects completed under my guidance (41)**

Sl. No	Title of the project	Name of the candidate	Year of completion
1.	Study of polymorphism in Doxepin HCl	Rakesh Panda	April 2011
2.	Synthesis of Pyrazolinones of biological interest	Hanif AlamAhmed Laskar	April 2011
3.	Preliminary Investigation of Polymorphism in CyclobenzaprineHCl ( <b>Co-Guide</b> )	Radhamani	April 2011
4.	Identification and characterization of Polymorphs of Orphenadrine Citrate	Prity Kumari	April 2011
5.	Synthesis of Pyrazolinones and their mannich bases of biological interest	Nidhi Alva	April 2011
6.	Synthesis of quinoxaline analogs of biological interest	Smitha Holla	May 2010
7.	Synthesis of quinoxaline analogs of biological interest	Lakhmi Rai	May 2010
8.	Synthesis and structural analogues of Fluoxate	Surojit Ghosh	May 2010
9.	Synthesis of thiazole analogs of biological interest	Saroj Panchal	May 2010
10.	Synthesis of structurally related compounds of Cyproheptadine ( <b>Co-Guide</b> )	Trishna Roy	May 2010
11.	Synthesis and identification of different polymorphs of Pitofenone Hcl by FTIR and x-ray diffraction spectrometry	Y. R. Latha	March 2009
12.	Synthesis of Tetrazepam and structurally related compounds	Balaji	March 2009

13.	Synthesis and characterization of structurally related compounds of Olapatadine HCl	Hari Prasad	March 2009
14.	Synthesis of some thiazole analogues of biological interest	Srinagesh K.G.	March 2009
15.	Synthesis and resolution of few nitrogen containing heterocycles	Biranchi	2008
16.	Synthesis and evaluation of anticonvulsant activity of some new benzisoxazole derivatives.	Sunil Kumar	2008
17.	Synthesis and evaluation of anti-inflammatory activity of some sulphur and nitrogen containing heterocycles	Sarnali Mitra	2008
18.	Synthesis and biological evaluation of certain new fused heterocyclic system containing nitrogen atom	Swapna Mukherjee	2008
19.	Effect of different acids on the Z-isomer formation of dothiepin and doxepin s	Amit Kumar Jain	2008
20.	Synthesis of some aryl ethers of biological interest	Rashmi P	2007
21.	Synthesis and characterization of some new tricyclic nitrogen heterocycles	Pankaj Dawar	2007
22.	Synthesis and biological evaluation of certain curcumin derivatives	Deeshant Shah Patel	2007
23.	Synthesis of some new 1,2,4-triazoles of biological interest	Gorle Lakshmi Ganesh	2007
24.	Synthesis and characterization of fused nitrogen heterocycles of biological interest	B.K.Savitha	2007
25.	Synthesis and characterization of novel Valerophenone oximes and ethers applicable in psychiatric disorders	Rishank Goyal	July 2006

26.	Synthesis and characterization of some tricyclic ring systems	Khan Ikhtiyar Jabbar	July 2006
27.	Synthesis and evaluation of antimicrobial activity of some sulfur and nitrogen containing heterocycles	Shaikh Riyaz Azam	July 2006
28.	Synthesis of some interesting thiazoles (and their derivatives) for their antimicrobial activity	Shikhar Kashyap	Feb 2006
29.	Synthesis and biological studies of some heterocycles containing nitrogen and sulphur	Rashmi Karki	Feb 2006
30.	Synthesis and evaluation of antimicrobial activity of Heterocycles containing Sulphur and Nitrogen: Thiophene-thiazolidinone	Eljo Chacko	Feb 2006
31.	Synthesis and characterization of certain sulphur containing tricyclic systems	Azmathullah Ansari	Aug. 2005
32.	Synthesis of Heterocycles containing Sulphur and Nitrogen: Thiazole-thiazolidinone systems for useful pharmacological activities	Suvadeep Chakraborty	Aug. 2004
33.	Synthesis of certain substituted Traizolo-Thiadiazoles as antimicrobial agents.	Manzoor Ahmed	Sept.2003
34.	Synthesis and antimicrobial activity of certain triazole derivatives.	Mir Hashim Ali	Sept.2003
35.	Synthesis of certain substituted Traizolo-thiadiazoles as antimicrobial agents.	Sharmistha Sen	Sept.2002
36.	Synthesis of some 2-substituted amino-3-(N-m-tolyl carboxamido)-4,5-pentamethylene thiophene for analgesic and antiinflammatory activity	Geetha S. J	Sept. 2002
37.	Synthesis of certain substituted Thiazolyl triazoles as potential analgesic and anti inflammatory agents.	Shiradkar M.R	Aug. 2001

38.	Synthesis of certain substituted Traizolo-Thia diazoles & Triazolo-Thiadaizines as antimicrobial agents.	Abhiram M. S	Aug. 2000
39.	Synthesis of certain substituted Triazoles as anti-microbial agents.	Rajasekaran S	Aug.1999
40.	Synthesis & evaluation of substituted amino acetamides as potential analgesic and anti-inflammatory agents.	Judy Thomas	Aug.1998
41.	Evaluation of antidepressant activity of newly synthesized analogues of Amitriptyline ( Pharmacology project CO-GUIDED )	Suneetha G.A.	March 2008

**Resource person/Guest Lectures in Symposia / Conferences:**

1. Delivered a lecture on “Water based organic reactions- A Green Chemistry approach” at KLE College of Pharmacy, Bangalore on 18<sup>th</sup> March 2011.
2. Delivered a lecture on “Advantages of Green Chemistry” at College of Pharmacy, MIT, Pune on 22<sup>nd</sup> Sep.2010.
3. “Green Chemistry-Achieving safety and efficacy through solvent approach” lecture delivered at BLDEA’s College of Pharmacy, Bijapur on 30<sup>th</sup> July 2010 during an ICMR sponsored two days national seminar on “Advances in Drug Design and drug delivery for pulmonary diseases”.
4. “Green Chemistry-Achieving safety and efficacy through solvents” lecture delivered at CES college of Pharmacy, Kurnool (Andhra Pradesh) on 26<sup>th</sup> March 2010 during national level work shop on Green Chemistry-Role in Environmental protection sponsored by A.P.Pollution Control Board, Govt of Andhra Pradesh.
5. “Current trends in Prodrug Design and drug Discovery”- KK College of Pharmacy Chennai on 26<sup>th</sup> Oct.2009 during one day National Seminar on “Blooming Trends in Global Pharmaceutical Research”.
6. Grignard,s reagent and applications in Drug synthesis-Padmashree D.Y.Patil College of Pharmacy, Pimpri, Pune 6<sup>th</sup> Oct.2009

7. **Synthetic Utilities of Grignard's reaction in Drug synthesis-Raghunath sable College of Pharmacy, Saswad, Pune on 22<sup>nd</sup> Sep.2009**
8. **Grignard's Reagent and its applications. AICTE sponsored QIP program on 25<sup>th</sup> October 2008 at Manipal College of Pharm.Sciences,Manipal.**
9. **Heterocyclic Chemistry Advances..... AICTE sponsored QIP program on 25<sup>th</sup> October 2008 Manipal College of Pharm.Sciences,Manipal.**
10. **Approaches to drug discovery. Indira College of Pharmacy, Pune on 14<sup>th</sup> October 2008.**
11. **Application of Bioisosterism in drug discovery program. Ratnam College of Pharmacy, Nellur. 5<sup>th</sup> September 2008.**

#### RESEARCH PUBLICATIONS :

a) **Total No. of Scientific papers published : 68**

1. **Gopal Krishna Rao**, Ranjit Kaur and P.N.Sanjay Pai, Synthesis and biological evaluation of dibenzo[b,f]azepine-5-carboxylic acid[1-(substituted-phenyl)-ethylidene]-hydrazides. Der Pharma Chemica, accepted for publication in June issue, 2011.
2. **S.Rajasekaran**, Gopalkrishna Rao, and Sanjay Pai.P.N. "2D QSAR studies of some novel quinazolinone derivatives as antitubercular agents" communicated to Journal of Chilean Chemical Society on 30.05.11.
3. S. Rajasekaran, **Gopal Krishna Rao**, Sanjay Pai P.N and Amit Ranjan, Design, Synthesis, Antibacterial and invitro Antioxidant activity of substituted 2 H Benzopyran-2-one derivatives, International Journal of ChemTech Research, Vol. 3, No.2, pp 555-559, April-June 2011
4. Rajasekaran.S, **Gopal Krishna Rao**, Sanjay Pai P.N and Alook Kumar Ajay Design, Synthesis and Biological Activity of Substituted Dihydropyrimidine-2-(1 H)-thiones, International Journal of PharmTech Research, Vol. 3, No.2, pp 626-631, April-June 2011

5. S.Rajasekaran, **Gopalkrishna Rao**, and P.N.Sanjay Pai, 2D QSAR studies of some novel quinazolinone derivatives as selective phosphodiesterase I inhibitors, *Der Pharmacia Sinica*, 2(3), 146-155, 2011,
6. Aakanksha Joshi, Venugopala KN, Gopalkrishna Rao, Kalpana Devi and Arun Pathak, Synthesis of 3[4-(6-bromo-2-oxo-2H-chromen-3-yl)-1,3-thiazol-2-yl]-2-(substituted phenyl)-1,3-thiazolidin-4-ones and their biological activity, *Indian J Het Chemistry*, vol 20, Jan-Mar, 2011, 295-296.
7. Ranjit Kaur, **Gopal Krishna Rao**, and P.N.Sanjay Pai, Synthesis and biological activity of some new isoxazolyl dibenzazepine carboxamides, *Indian J of Heterocyclic Chemistry*, vol 20, Jan-Mar, 2011, 299-300.
8. S.Rajasekaran, **Gopalkrishna Rao**, and P.N.Sanjay Pai, 2D QSAR studies of some novel sulphonamide derivatives as inhibitors of histone deacetylase, *Der Pharmacia Lettre*, 2011, 3(1),8-17.
9. S.Rajasekaran, **Gopalkrishna Rao**, and P.N.Sanjay Pai, Synthesis, antitubercular and antioxidant activity of some 2-phenyl-3-substituted quinazoline-4(3*H*)-ones, *Der Pharma Chemica*, 2010, 2(5),153.
10. **Gopal Krishna Rao**, Ramaling B. Kotnal and PN Sanjay Pai ,Synthesis and Biological Evaluation of 2-(3-Methyl-2-oxoquinoxalin-1(2*H*)-yl)-*N'*-(substituted phenylmethylenedene / ethylidene) acetohydrazides, *E-Journal of Chemistry*, 2010, **7(4)**, 1435-1439
11. **Gopal Krishna Rao**, Ramaling B. Kotnal and PN Sanjay Pai *In-vitro* screening of quinoxaline-2-one derivatives for antitubercular activity, *J. Chem. Pharm. Res.*, 2010, 2(3):368-373
12. **G.K.Rao\***, A.R.Ramesha, Amit Kumar Jain and B.V.AdaviRao Effect of Different Acids on the Formation of E and Z Isomers of Doxepin, **Indian J.Pharm. Educ. Res.** 44(3), Oct - Dec, 2010
13. Gowda, N.B., **Rao, G.K.**, Ramakrishna, R.A., A chemoselective deoxygenation of Noxides by sodium borohydride-Raney nickel in water, **Tetrahedron Letters** 51 (2010)5690-5693.
14. Hussain A.K., Pai P.N.S and **Rao G.K.**, Simultaneous spectropotometric estimation of Metronidazole and Amoxycillin trihydrate in marketed formulation. *Indian Drugs* 47(7)2010,63-66

15. Nagarjuna C.H., Pai P.N.S. and **Rao G.K.**, Spectrophotometric Method for simultaneous estimation of Pyridoxine Hydrochloride and doxylamine succinate in tablets. *Indian Drugs* 47(6)2010,45-48.
16. Ranjit Kaur, **Gopal Krishna Rao**, and P.N.Sanjay Pai, Synthesis of 5*H*-Dibenzo (*b,f*)azepine-5-{4-substituted benzylidene-2-methyl imidazole-5-one}carboxamides and their antioxidant activity, *Indian J of Heterocyclic Chemistry*, Jan-Mar.(19)2010,261-4.
17. Arun Pathak, Venugopala KN, Akaanksha Joshi,**GopalKrishnaRao**,and Kalpana Devi, Synthesis of ethyl -5-(substituted phenyl)-7-methyl-3-oxo-3,5-dihydro-2*H*-thiazolo(3,2-*a*)-pyrimidine-6-carboxylates, *Indian J of Heterocyclic Chemistry*, Jan-Mar.(19)2010,273-6.
18. **Gopal Krishna Rao**, S.Rajasekaran,P.N.Sanjay Pai,M.Srinivasa Murthy, Joydeep Sengupta and Kalpana Devi , Synthesis and Antimicrobial activity of some 2-Phenyl-1-[4-Phenyl-1,3-thiazol-2-yl]-4(substituted benzylidene)-imidazoline-5-ones ,**Indian J of Heterocyclic Chemistry, Jan-Mar.(19)2010,303-4.**
19. **Gopal Krishna Rao**, S.Rajasekaran and P.N.Sanjay Pai, Synthesis of some N-(4-oxo-2-substituted phenyl quinazolin-3-(4*H*)yl)-2-[(5-aryl-1,3,4-oxadiazol-2-yl)sulfanyl] acetamides as antitubercular agents, *Indian J of Heterocyclic Chemistry*, Jan-Mar.(19)2010,293-4.
20. K.Ranjit, **GKRao** and PNSPai,Synthesis andbiological evaluation of N<sup>1</sup>-[((3*z*) -5-substituted-2-oxo1,2-dihydro-3*H*-indol-3-ylidene]-5*H*-dibenzo[*b,f*]azepine-5-carbohydrazides, **Int. J.Biolog. Chem.,3(2)1-7,2010.**
21. Rajasekaran S, **GopalKrishnaRao**, PNSanjay Pai and Gurpreet singh Sodhi, “Synthesis,antibacterial and in vitro antioxidant activity of 2,3-substituted quinazoline-4(3*H*)-ones”**J.Chem.Pharm.ChemRes.,2010,2(1):482-488.**
22. **GopalKrishnaRao**,Ranjit Kaur and PNSanjay Pai “Synthesis and biological evaluation of some dibenzazepine analogs”**J.Chem.Pharm.ChemRes.,2010,2(1):489-496**
23. Puranik SB, Pai PNS, and **Rao GK**.Determination of organic volatile impurities in Herbal formulations and extracts by capillary gas chromatography,*Int.J.Appl.research in natural products*,2009,2(1)32-46.

24. Puranik SB, Pai PNS, and **Rao GK.**, Determination of organic volatile impurities in active pharmaceutical ingredients, The internet J.Pharmacology,2009,6(2).
25. Rajasekaran S, Gopal Krishna Rao, PN Sanjay Pai, Qaseem Ahmad and A Jasmine, Microwave assisted synthesis of some 2-[[2-(4-Chlorophenyl)-4-oxoquinazoline-3-(4H)-yl]amino}-N-(substituted phenyl)acetamides as antibacterial and antioxidant agents. Indian J.Heterocyclic Chem,2009,19,191-2.
26. **GKRao**, RBKotnal and PNSPai, Synthesis and evaluation of N-(sub phenyl)methylidene)-2(3-methyl-2-oxo quinoxaline-1-(2H)yl)acetohydrazide for possible antibacterial and antifungal activities, **Int.J.Biolog.Chem.,3(2)71,2009.**
27. PNS Pai, **GKRao**, MSMurty, A.Agarwal and S.Puranik, Simultaneous determination of Salbutamol sulfate and Bromhexine HCl in tablets by reverse liquid chromatography, **Indian J.Pharm.Science, Jan-Feb 2009,53.**
28. Rajasekaran S, **Gopal Krishna Rao**, Sanjay Pai P.N. and Vedavathy J, Microwave assisted Synthesis and antibacterial activity of 3,5-disubstituted -1,3,4-oxadiazoles, **Indian J Heterocyclic Chemistry, Jan-Mar 2009(18),309.**
29. Mohamed Kaspady, Venugopala Katharigatta Narayanaswamy, Mohana Raju, **Gopal Krishna Rao**. Synthesis, antibacterial activity of 2,4-disubstituted oxazoles and thiazoles as bioisosteres. Lett. Drug Des. Discovery 2009 (in press).
30. Kalpana Devi, Venugopala Katharigatta Narayanaswamy, **Gopal Krishna Rao**. Synthesis and characterization of substituted 3, 4-dihydropyrimidine-2(1H)-thiones for their biological activity. Ind J Heterocycl Chem, Jan-Mar 2009(18),305.
31. Puranik SB, Pawar VR, Lalitha N, Pai PNS, **Rao GK**. Gas chromatographic method for residual solvents analysis. Oriental J.Chem.2008,24(1):529-536
32. Puranik SB, Pai PNS, and **Rao GK**. Determination of Butyl acetate and dimethyl formamide organic volatile impurities in marketed formulations of Ibuprofen, Diclofenac and Aceclofenac. Int.J.Chem.Sci.2008,6(3)1612-1621.
33. Puranik SB, Roopa s.Pai, Pai PNS, and **Rao GK**. Gas chromatographic determination of residual levels of methanol and chloroform from liposomal microspheres and nano particles. Int.J.Chem.Sci.2008,6(2)693-704.

34. Devi Kalpana, K.N.Venuogopala, **Rao Gopal Krishna**, Pai Sanjay PN, Synthesis and characterization of substituted 3,4-dihydropyrimidine-2(1*H*)-ones and 3,4-dihydropyrimidine-2 (1*H*)-thiones as bioisosteres for their biological activities. In Pharm Communique , 2008 ,Vol11 (1),19-24.
35. Puranik SB, Pawar VR, Lalitha N, Pai PNS, **Rao GK**. Development and validation of spectrophotometric method for determination of Montelukast sodium in bulk and tablet formulation. The Pharma Review, 2008,6(36)144.
36. Puranik SB, Pawar VR, Lalitha N, Pai PNS, **Rao GK**. Gas Chromatographic determination of residual solvents in Pharmaceutical excipients. The Pharma Review,2008,6(36)147-150
37. Deepak Chopra, Angshuman R. Choudhury, Venugopala KN, **Rao GK**, Tayur N Guru Row. Subtle interplay of strong and weak interactions in two halogen substituted amino-thiazole derivatives of coumarin. Cryst Eng Commu (In press 2008)
38. **Gopal Krishna Rao**, Venugopala KN, Sanjay Pai PN Microwave assisted synthesis and characterization of some 6-chloro-3-[2-(substituted anilino)-1, 3-thiazol-4-yl]-2*H*-1-benzopyran-2-one as antibacterial agents. Ind. J.Heterocyclic Chem. 2008;17:397-400.
39. Puranik SB, Pawar VR, Lalitha N, Pai PNS, **Rao GK**. Gas chromatographic determination of methanol and isopropyl alcohol impurities in herbal extracts. The Pharma review. 2008;6(32):121-3.
40. Puranik SB, Pawar VR, Lalitha N, Pai PNS, **Rao GK**. Determination of residual solvents in intermediates and active pharmaceutical ingredients by gas chromatography. Ind. Drugs. 2008;45(5).
41. Venugopala KN, **Gopal Krishna Rao**, Sanjay Pai PN, Gorle Lakshmi Ganesh. Synthesis and characterization of Carboxamides of 2'-amino-4'-(3-2*h*-1-benzopyran-2-one) thiazole as antimicrobial agents. Asian J. Chem. 2008;20(3):1697-1701.
42. Puranik SB, Pai PNS and G.K. **Rao**,Organic volatile Impurities in Pharmaceuticals,Indian J.Pharm.Sci.May-June 2007:352-359.
43. P.Sreenivasa Reddy, K.N.Venugopla, **Gopal Krishna Rao**, and P.N.Sanjay Pai, Synthesis of some substituted quinazolinones as analgesic and antiinflammatory agents,Indian J.Heterocyclic Chem.,2007(16)243-6.

44. Venugopala KN, **Gopal Krishna Rao**, Sanjay Pai PN, Gorle Lakshmi Ganesh. Synthesis and characterization of some carboxamides of 2-amino-4-phenyl thiazole as antimicrobial agents. *Oriental J. Chem.* 2007; 23(3):1093-1096.
45. Deepak Chopra, Venugopala KN, **Rao GK**. 6-Bromo-3-(dibromoacetyl)-2*H*-chromen-2-one. *Acta Cryst. E.* 2007; E63, 4872.
46. Puranik SB, Pai PNS, **Rao GK**. Organic volatile impurities in pharmaceuticals. *Ind. J. Pharma. Sci.* 2007; May-June: 352-359.
47. Venugopala KN, Girija CR, Deepak Chopra, Noor Shahina Begum, **Rao GK**. (2*Z*,3*E*)-2,3-Bis(2-thienylmethylene)succinic acid methanol hemisolvate. *Acta Cryst. E.* 2007; 63: 3722.
48. Eljo P Chako, **Gopal Krishna Rao**. Microwave assisted synthesis of some new schiff bases. *Asian J. Chem.* 2007; (4): 3274-3276.
49. Deepak Chopra, Venugopala KN, **Rao GK**, Guru Row TN. 3-Dibromoacetyl-2*H*-chromen-2-one. *Acta Cryst. E.* 2007; 63: 2826.
50. Deepak Chopra, Venugopala KN, **Rao GK**. (5*S*)-1,4-Bis{[(1*E*)-4-methylbenzylidene]amino}-5-(thien-2-yl)pyrrolidin-2-one. *Acta Cryst. E.* 2007; 63: 2840.
51. **Gopal Krishna Rao**, Venugopala KN, Sanjay Pai PN. Novel schiff bases of 4-hydroxy 6-carboxyhydrazino benzofuran analogs: synthesis and pharmacological study. *J. Pharma. Toxicol.* 2007; 2(5): 481-488.
52. Pasha MA, Jayashankara VP, Venugopala KN, **Gopal Krishna Rao**. Zinc oxide (ZnO): An efficient catalyst for the synthesis of 4-arylmethylidene-2-phenyl 5(4*H*)-oxazolones having antimicrobial activity. *J Pharma Toxicol.* 2007; 2(3): 264-270.
53. Venugopala KN, **Gopal Krishna Rao**, Sanjay Pai PN. Synthesis and pharmacological study of some novel schiff bases of 4-hydroxy 6-carboxyhydrazino benzothiophene analogs. *J. Pharmaco. Toxicol.* 2007; 2(3): 248-255.
54. Venugopala KN, **Gopal Krishna Rao**, Sanjay Pai PN, Gorle Lakshmi Ganesh. Synthesis and characterization of some carboxamides of 2-amino-4- phenyl thiazole as antimicrobial agents. *Oriental Journal of Chemistry.* 2007; 23(3): 1093-1096.

55. Pai PNS, Lalitha N, Balakrishna B, **Rao GK**. Determination of ambroxol hydrochloride using dithiocarbamic acid colorimetric method, *Ind. J. Pharma. Scien.* 2006 July-August; 68(4): 501-502.
56. Pai PNS, **Rao GK**, Murthy MS, Prathibha H. Simultaneous estimation of piperacillin and tazobactam in injection formulations. *Ind. J. Pharma. Scien.* 2006 November-December; 68(6): 799-801.
57. Pai PNS, Balaphanisekhar B, **Rao GK**, Pasha K. Determination of methylene chloride organic volatile impurity in marketed formulations of ciprofloxacin, norfloxacin, pefloxacin and ofloxacin, *Ind. J. Pharma. Scien.* 2006 May-June; 68(3): 368-370.
58. Srinivasa Murthy M, Sanjay Pai PN, **Gopal Krishna Rao**, Nargund LVG. Spectrophotometric determination of inhibition of bovine serum albumin denaturation of 3-(3-chloro-4-fluorophenyl)-2-substituted phenyl-4-thiazolidinones. *Asian J. Chem.* 2005; 17 (4): 2841-2842.
59. **Gopal Krishna Rao**, Sanjay Pai PN, Bagavant G, Inderjit Singh Bansal. Synthesis and evaluation of antibacterial activity of 2-Acetamido-4-acet(4'-aryl-3'-chloro-2'- oxo azetidiny) amino thiazoles. *Asian J. Chem.* 2005; 17(4): 2827-2829.
60. Srinivasa Murthy M, Nargund LVG, **Gopal Krishna Rao**, Sanjay Pai PN. Synthesis and antimicrobial activity of some new N-(4-Fluoro-3-piperazinyl) phenyl benzaldimine derivatives. *Oriental J. Chem.* 2005; 21(1):75-76.
61. Srinivasa Murthy M, **Gopal Krishna Rao**, Sanjay Pai PN, Nargund LVG. Synthesis and anti-inflammatory activity of 3-(3-chloro-4-fluorophenyl)-2- substituted phenyl 4-thiazolidinones. *Asian J. Chem.* 2005; 17(3): 2052-2054.
62. Pai PNS, **Gopal Krishna Rao**, Balakrishna B, Hamid Khan, Pasha K. Spectrometric method for determination of carbocysteine, *Ind. J. Pharm. Edu.* 2005 April-June; 39(2): 108-109.
63. **Gopal Krishna Rao**, Suvadip P, Chakraborty Sanjay Pai PN, Srinivasa Murthy M. Synthesis and evaluation of N'-(substituted phenylidene hydrazido) -2-methylthiazole-4-yl acetamides. *Asian J. Chem.* 2005; 17(3): 2010-2012.
64. Pai PNS, **Rao GK**, Lalitha N, Pasha K. Spectrophotometric determination of ambroxol hydrochloride, *Ind. J. Pharma. Scien.* 2005 November-December; 67(6), 741-742.

65. **Gopal Krishna Rao**, Suvadip P, Chakraborty, Sanjay Pai PN, Srinivasa Murthy M. Synthesis, charecterisation and antimicrobial activity of 2-[(substituted phenyl)] -3- [(2-methyl-4- thiazolyl) acetamido] thiazolidin4-ones. Asian J. Chem. 2005; 17(3): 2013-2015.
66. **Rao GK**, Sen S, Rajendra B. Synthesis of certain 3-(4-cholorophenoxymethyl)-6-substituted phenyl-5,6-dihydro-s-triazolo[3,4-b]1,3,4-thiadiazoles as antimicrobial agents. Ind. Drugs. 2004; 41(9):524-527.
67. Pai PNS, **Rao GK**, Sandeep SK, Balapanisekhar. HPLC determination of formoterol fumarate in rotacap formulation. Ind. Drugs. October 2003; 40(10): 592-593.
68. **Gopal Krishna Rao**, Rajasekaran S, Attimarad M. Synthesis and anti-microbial activity of some 5-phenyl-2-substiteled amino-3-mercapto-(4H)-1,2,4-triazoles. Ind. J. Pharm. Sciences, 2000 Nov-Dec: 475-477.

**PUBLISHED A BOOK ENTITLED “Guide Book to Organic Chemistry Practicals” (for M. Pharm)**

**Total No. of Presentations made in National & international**

**conferences /seminars etc : 68**

**HONOURS AND AWARDS:**

1. Design and development of some novel imidazolines as antibacterial agents, II International Conference on Pharmaceutical Sciences, Technology and Practice. JSS College of Pharmacy, Ooty, Feb 24-26 2007. (**Awarded Second Prize in Drug Discovery**)
2. **Prof. E. P. Odum Gold Medal** for the contribution in the field of contemporary biology and pharmaceutical Chemistry by International Society for Ecological Communications, SKM University, Dumka, Jharkand. September 2007.

3. **Chair person** for one of the sessions at “Designing and Synthesis of Novel Medicinal compounds by Microwave Technique” held at Dayananda Sagar College of Pharmacy Bangalore, June 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> 2007.
4. **St. John’s Pharmacy College Award 2006** – for the **Best Paper** Published under the section of Pharmaceutical Analysis in ‘Indian Journal of Pharmaceutical Education and Research’ during the year 2005-2006.
5. “Synthesis and evaluation of Antibacterial activity of N<sup>1</sup> (substituted phenylidene hydrazido)- 2-methylthiazole-4-yl-acetamides”- presented in *APTI-International convention* , Oct.2004, Visakhapatnam. (**Awarded SECOND Prize in Medicinal Chemistry section**).
6. “Synthesis and antimicrobial activity of Certain Sulfur and nitrogen containing heterocycles-thiazole and triazoles” – presented during an *International symposium on drug discovery and process research at Shivaji university, Kolhapur* Jan 2003. (**Awarded best Poster**).

**ANY OTHER RELEVANT INFORMATION :**

- ◆ Nominated as organizing committee member and **Chairman -transport committee** for the conduct of 63<sup>rd</sup> IPC to be held at Bangalore during December 2011.
- ◆ Invited by **Orchid Chemicals and Pharmaceuticals**, Chennai to strengthen Industry-Academia interaction and to improve the collaborative research activities on 5<sup>th</sup> Feb, 2011 at Chennai.
- ◆ Nominated as **Member, Ph.D.Committee** by RGUHS, Karnataka, for the period 2010-2011
- ◆ Nominated as **Member- Scientific Services Committee** by **IPCA** for the period **2010-2012**.
- ◆ Nominated as **Selection Committee Member**, by Goa State Public Service Commission, for the appointment of lecturers in Govt. College of Pharmacy, Goa (May 2010).

- ◆ Nominated as Selection Committee Member by Osmania University, Hyderabad for the recruitment of lecturers and Asst. professors in G.PullaReddy college of Pharmacy 27<sup>th</sup> June, 2009.
- ◆ **Member, Board of Studies, SRM Deemed University, KattanKulathura Tamil Nadu** (since Jan.2009 for three years)
- ◆ **Renominated as Member, Board of Studies(PG in Pharmacy), RGUHS, Karnataka, Bangalore** (2009-2012)
- ◆ Zonal Secretary (South Zone) **Indian Society of Chemists and Biologists**, Lucknow, June 2005 till date.
- ◆ Nominated as **editorial board member of Journal of Current Sciences.**
- ◆ Reviewed seven scientific papers for Asian Journal of Scientific Research and Asian Journal of Biochemistry.
- ◆ Nominated for the editorial board membership of the following journals.
  - International Journal of Pharmacology
  - Journal of Medical Sciences
- ◆ Joint secretary- **Association of Pharmaceutical Teachers of India**, 2004 till date.
- ◆ Hon. Treasurer, **IPA, Karnataka State Branch, 1993-till date.**
- ◆ Member, **Karnataka State Pharmacy Council Election Committee- 2003.**
- ◆ Hon. Treasurer –**Alumni Graduates Association, Govt. College of Pharmacy, Bangalore.** 2005 till date.
- ◆ Cochairman souvenir committee, 59<sup>th</sup> IPC Varanasi, 2007.
- ◆ Incharge of exhibition, accommodation and finance committees of 11<sup>th</sup> APTI Convention Bangalore, 2006.
- ◆ Executive Council Member, **Association of Pharmaceutical Teachers of India**, Sept 2001 to 2004.
- ◆ Co-ordinator, **Association of Pharmaceutical Teachers of India**, Jan 1995 to Sept 2001.
- ◆ Pharmacy Inspector, **Karnataka State Pharmacy Council**, 1998-2001 and 2005-till date.
- ◆ Chairman and Member, **Local Inquiry committee, Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore, Since 1997.**

- ◆ Member, **Board of Examiners B. Pharm), Gulbarga University, 1996 & 1998.**
- ◆ Registered Pharmacist, **Karnataka State Pharmacy Council.**
- ◆ Member- **LOC and Chairman (accommodation and hospitality), 2<sup>nd</sup> APTI Annual national convention held at Bangalore, March.1996.**
- ◆ Member, **Transport Committee-Indian Pharmaceutical Congress held at Bangalore, 1992.**

#### **MEMBERSHIP OF SCIENTIFIC AND PROFESSIONAL SOCIETIES:**

- Association of Pharmaceutical Teachers of India,  
*Life Member and Joint Secretary*
- Indian Pharmaceutical Association  
*Life Member and Hon. Treasurer-Karnataka state branch and Central Executive committee,Mumbai*
- Indian Society for Technical Education,  
Life Member
- Indian Society of Chemists and Biologists, Lucknow,  
*Life Member and Zonal Secretary*

#### **LIST OF CONFERENCES, SHORT-TERM COURSES Etc., ORGANIZED/ PARTICIPATED:**

- 1) Presented papers in Indo US symposium on Frontiers in Medicinal Chemistry-Molecule to Medicine JSS University, Mysore, April 21<sup>st</sup>-23<sup>rd</sup>, 2011.
- 2) GopalKrishna Rao, Ramesha A.R, Rajasekaran S, Trishna Roy, Rakesh Panda, “Synthesis and evaluation of structural analogs of Cyproheptadine”, International conference on recent advances in Pharmaceutical Sciences, Department of Pharmaceutics IT-BHU, Varanasi, 22-23<sup>rd</sup> Dec.

- 3) GopalKrishna Rao, S.Rajasekaran, Sanjay Pai.P.N, B.Radhamani, “Microwave assisted synthesis of some novel Schiff bases and evaluation of their *invitro* anti-inflammatory and antioxidant activity”, International conference on recent advances in Pharmaceutical Sciences, Department of Pharmaceutics IT-BHU, Varanasi, 22-23<sup>rd</sup> Dec.
- 4) S.Rajasekaran, GopalKrishna Rao, Sanjay Pai.P.N, Amit Ranjan and Niranjana H.S, “Synthesis and Biological Activity of Substituted 2*H*-Benzopyran-2-one Derivatives” at “Second International Conference on Current Status and Future Perspective in Pharmaceutical Sciences”, PES College of Pharmacy, Bangalore, 20<sup>th</sup> and 21<sup>st</sup> August 2010.
- 5) S.Rajasekaran, GopalKrishna Rao, Sanjay Pai.P.N, Alok Kumar Ajay and Abhishek Chatterjee, “Synthesis and Biological Activity of Substituted dihydropyrimidine-2(1*H*)-thiones at “Second International Conference on Current Status and Future Perspective in Pharmaceutical Sciences”, PES College of Pharmacy, Bangalore, 20<sup>th</sup> and 21<sup>st</sup> August 2010.
- 6) GopalKrishna Rao, S.Rajasekaran, Sanjay Pai.P.N, Saroj Panchal and Hanif Alam Laskar, “Synthesis of thiazole analogs of Biological Interest” at “Second International Conference on Current Status and Future Perspective in Pharmaceutical Sciences”, PES College of Pharmacy, Bangalore, 20<sup>th</sup> and 21<sup>st</sup> August 2010.
- 7) GopalKrishna Rao, Monica Kachroo, **S.Rajasekaran**, Sanjay Pai.P.N, Hemalatha Y.R and Shadab Alam, “Synthesis and characterisation of substituted thiazoles for their antibacterial and antioxidant activity” at “Second International Conference on Current Status and Future Perspective in Pharmaceutical Sciences”, PES College of Pharmacy, Bangalore, 20<sup>th</sup> and 21<sup>st</sup> August 2010.
- 8) ArunKumar, Rajasekaran S, GopalKrishna Rao and Inamdar M.N. *In-vitro* antioxidant activity of new quinazoline derivatives. International conference on integrative & personalized medicine and 42nd annual conference of Indian Pharmacological Society, Kolkata. 2009.
- 9) Organising committee member for the conduct of a one day national level workshop on “**Good Laboratory Practices**” at Hotel Solitaire Bangalore by IPA and KDPMA on Sep.4<sup>th</sup> 2010.

- 10) Co-Chairman and evaluator for poster session at IPC Ahmedabad, Indian Pharmaceutical Congress, Dec. 2009
- 11) Evaluator for oral session on Pharm. Education and evaluator in Poster session on drug discovery during 2nd IPA students federation congress held at Acharya & BM Reddy college of Pharmacy, Bangalore during 9-11<sup>th</sup> July 2009.
- 12) **Coming to GRIP with GMP.** Organized by IPA, Karnataka Branch, Organizing committee member. Hotel Gold Times, 29<sup>th</sup> Nov. 2008.
- 13) Participated and presented papers in *59th Indian Pharmaceutical Congress*, Varanasi, December 1<sup>st</sup> -3<sup>rd</sup>, 2007.
- 14) Participated and presented papers in **APTI -12<sup>th</sup> Annual National Convention**, Chandigarh, 2007.
- 15) Attended an International Symposium on Recent advances in Contemporary Biology, Environmental Issues and Sustainable Development on 29<sup>th</sup> -30<sup>th</sup> September 2007 at **SKM University, Dumka, Jharkhand.**
- 16) Attended national conference on Designing and Synthesis of Novel Medicinal compounds by Microwave Technique held at Dayananda Sagar College of Pharmacy Bangalore on June 8<sup>th</sup> - 10<sup>th</sup>, 2007.
- 17) Participated and presented papers in prospects and perspectives of Pharm-D programme held at Vinayaka Missions College of Pharmacy, Salem 14<sup>th</sup> and 15<sup>th</sup> July 2007.
- 18) Participated and presented papers in *Computational Biology, Bio-informatics and Life Sciences*, Bangalore, May 2<sup>nd</sup> and 3<sup>rd</sup>, 2007.
- 19) Participated and presented papers in II International Conference on Pharmaceutical Sciences, Technology and Practice. JSS College of Pharmacy, Ooty, Feb 24-26 2007.
- 20) Participated and presented papers in *58th Indian Pharmaceutical Congress*, Mumbai, December 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup>, 2006.
- 21) Participated and presented papers in **APTI -11<sup>th</sup> Annual National Convention**, Bangalore, 2006.
- 22) Attended 2<sup>nd</sup> International Seminar on Bioinformatics and Cheminformatics in Drug Discovery at Nargund College of Pharmacy, Bangalore on December 17<sup>th</sup> 2005.

- 23) Participated and presented papers in 10<sup>th</sup> APTI Annual National Convention, Oct.17-18<sup>th</sup> 2005.
- 24) Attended workshop on Environmental Management in Pharmaceutical Industry Held at Al-Ameen College of Pharmacy, Bangalore, on 27<sup>th</sup> May 2004.
- 25) Attended workshop on “De stress - Healthy Living and High Thinking” Held at Al-Ameen College of Pharmacy, Bangalore, on 22<sup>nd</sup> April 2004.
- 26) Attended workshop on “Research Methodology, Biostatistics and Ethical aspects of Research” conducted by Rajiv Gandhi University of Health Sciences, Karnataka on 25<sup>th</sup> and 26<sup>th</sup> August 2004.
- 27) Participated in 56<sup>th</sup> IPC, Kolkata, Dec. 2004.
- 28) Participated in APTI-International convention, Oct. 2004, Visakhapatnam.
- 29) Participated in 7<sup>th</sup> Annual National Convention of Indians Society of Chemists and Biologists at Dr.B.R.Ambedkar University, Agra, Dec. 2003.
- 30) Participated in 55<sup>th</sup> IPC Chennai, Dec. 2003.
- 31) Participated in APTI 8<sup>th</sup> Annual National Convention held at Hubli, Oct. 2003
- 32) Participated in Internatinal symposium on Drug Discovery and Process Research held at Shivaji University, Kolhapura, Jan. 2003.
- 33) Participated in 54<sup>rd</sup> IPC Pune, Dec. 2002.
- 34) Participated in “Training of Teachers” conducted by ISTE Chapter at Al-Ameen College of Pharmacy Oct. 2002, Bangalore.
- 35) Participated in 53<sup>rd</sup> IPC New Delhi, Dec. 2001.
- 36) Attended 52<sup>st</sup> IPC at Hyderabad, Dec. 2000
- 37) Attended a workshop on “Pharma Education in the next millennium” held at KLE’s college of Pharmacy, Belgaum organized by IPA, Sept. 26<sup>th</sup> & 27<sup>th</sup> 1998.
- 38) Panel member of Pharmaceutical analysis faculty in workshop on “B. Pharm course (RGUHS, Karnataka).
- 39) Working syllabus based on A.I.C.T.E. Guidelines for R.G.U.H.S., Karnataka”, held at M. S. Ramaiah College of Pharmacy, Bangalore, Apr. 1998.
- 40) Attended a workshop on “Evaluation Technique” held at college of Pharmacy, SRIPMS Coimbatore, Sept. 1997.

- 41) Member, LOC of 2<sup>nd</sup> Association of Pharmaceutical Teachers of India Annual National Convention, and Chairman, Accommodation Committee, Bangalore, Mar. 1<sup>st</sup> & 2<sup>nd</sup> 1996.
- 42) Attended a workshop on “*Strategic Planning and institutional development*” at Technical Teachers Training Institute” Chennai, Dec. 1994 organized by ISTE.
- 43) Participated in State level Workshop on “Industry Academia Interaction” Dec. 1993 under ISTE chapter, Al-Ameen College of Pharmacy.

**Examiner at UG, PG and Ph.D programmes of various universities:**

- Rajiv Gandhi University of Health Sciences, Karnataka
- Bharathidasan university, Tiruchirapalli,
- Sri Padmavathi Mahila Vishvavidyalam university, Tirupathi
- Kakatiya university, Warangal
- Osmania university, Hyderabad
- RTM university, Nagpur
- BITS, MESRA, Ranchi
- JSS university, Mysore
- KLE university, Belgaum
- Nitte university, Mangalore
- The TN Dr.MGR Medical university, Chennai
- SRM university, Kattankulathur, Chennai
- Pune university, Pune
- Goa university, Goa

Date : 1<sup>st</sup> May 2011

Dr.GKRao (Fadnis ) –Curriculum vitae

Place : Bangalore

**(Dr. Gopal Krishna Rao)**