



**Dr. SHAUKATH ARA KHANUM. M.Sc., Ph.D.**  
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### **CAREER SUMMARY:**

PG Teaching - 13 years; UG Teaching – 29 years; Research experience - 21 years

### **ADMINISTRATIVE EXPERIENCE:**

- ❖ Coordinator: M. Sc., course in Chemistry- September 2011-2013.
- ❖ Head of the Department – February 2016- till date

### **KEY RESEARCH AREAS:**

- ❖ Organic Chemistry- ecofriendly synthesis of heterocyclic compounds, isolation of bioactive compounds from medicinal plants.
- ❖ Pharmaceutical chemistry- Anti-cancer; anti-inflammatory; anti-microbial; enzyme inhibition activity.
- ❖ X-ray Crystallography

### **SCIENTIFIC IMPACT:**

- ❖ Publications - Over 150
- ❖ Total Citations: Over 1079
- ❖ h-Index - 20
- ❖ i10-index 32
- ❖ 99- Highest citations for an individual research article published in *Eu. J. Med. Chem..*
- ❖ Invited lectures: Over 25

### **BOOKS AUTHORED:**

- ❖ Proceedings of the National Seminar on Statistical Methods and Data Analysis on September 26<sup>th</sup> & 27<sup>th</sup>, 2014. ISBN 817877-093-8
- ❖ Shaukath Ara khanum (2013) Text book of Organic chemistry
- ❖ Shaukath Ara khanum and Aiyasha Firdouse (2011) Principles of Biochemistry.
- ❖ Shaukath Ara khanum (2009) A laboratory manual for B.Sc.VI semester students. : Yuvaraja's College Co-operative Society. Mysore.

### **AWARDS:**

Award for Research Publication-Vision Group on Science and Technology  
Received from Bharat Ratna Prof.C.N.R.Rao, on 17<sup>th</sup> March, 2018, at JNCASR, Jakkur, Bengaluru

## LIST OF PUBLICATIONS AS ON 2018:

1. Synthesis and amelioration of inflammatory paw edema by novel benzophenone appended oxadiazole derivatives by exhibiting cyclooxygenase-2 antagonist activity. Naveen Puttaswamy, Vikas H. Malojiao, Yasser Hussein Eissa Mohammed, Ankith Sherapura, Prabhakar B.T. and Shaukath Ara Khanum. **Biomedicine & Pharmacotherapy** **103** (2018) **1446–1455**.
2. Antitumor Hybrid BT009K Modulates Inflammation Induced Neovascularization in Both Tumorigenic and Non-Tumorigenic Model System Shamanth Neralagundi H G, Zabiulla, Shaukath Ara Khanum and Prabhakar BT **Journal of Applied Pharmaceutical Science**.
3. Statistical analysis of antimicrobial data of 2-[2-(aroyl)aroyloxy]methyl-1,3,4 oxadiazoles analogues using ANOVA Fares Hezam Al-Ostoot, Vidya, R, Zabiulla, Yasser Hussein Eissa Mohammed, Mahima Jyothi, Pallavi. H.M, and Shaukath Ara Khanum. **Asian J Research Chem.** 11 (2018) 293-297.
4. Analysis of antimicrobial data of 2-aryloxy methyl oxazoline analogues using ANOVA. Zabiulla, Vidya, R, Fares Hezam Al-Ostoot, Mahima Jyothi, Yasser Hussein Eissa Mohammed, Shaikath Ara Khanum. **Asian J Research Chem.** 11 (2018) 307-311.
5. The critical role of novel benzophenone analogs on tumor growth inhibition targeting angiogenesis and apoptosis Yasser Hussein Eissa Mohammed and Shaikath Ara Khanum . **Med Chem comm** **9** (2018) **639–656**.
6. The novel 4-phenyl-2-phenoxyacetamide thiazoles modulates the tumor hypoxia leading to the crackdown of neoangiogenesis and evoking the cell death. Yasser Hussein Eissa Mohammed, Vikas H. Malojirao, Prabhu Thirusangu, Mohammed Al-Ghorbani, B.T. Prabhakar, Shaikath Ara Khanum **Eu. J. Med. Chem** **143** (2018) **1826-1839**.
7. A review on anticancer potential of thiazole-heterocyclic hybrid compounds. Mohammed Al-Ghorbani, Huda A. Alghamdi and Shaikath Ara Khanum. **Eu. J Biomed. Pharma. Sci.** **5** (2018) **122–128**.
8. Synthesis and characterization of coumarin analogs: evaluation of antimicrobial and antioxidant activities. Prashanth T, Bushra Begum A, Noor Fatima Khanum and Shaikath Ara Khanum **Int. Res. J. Pharm** **9.** (2018) **22-30**,
9. Anti-inflammatory and antioxidant activity of salicylic acid conjugated dihydropyrazoline analogues Naveen Puttaswamy, Rekha N D , Lakshmi Ranganatha V , Prashanth T, Shaikath Ara Khanum **J.Appl. Pharmaceu. Sci.** **8** (2018) **060-064**.
10. Synthesis, crystal structure, spectroscopic characterization, docking simulation and density functional studies of 1-(3,4-dimethoxyphenyl)-3-(4-fluorophenyl)-propan-1-one Hussien Ahmed Khamees, Mahima Jyothi, Shaikath Ara Khanum, Mahendra Madegowda **J. Molecular Structure** **1161** (2018) **199e217**
11. Crystal packing analysis of 1-(3,4-dimethoxyphenyl)-3-(4-bromophenyl)prop-2-en-1-one exhibiting a putative halogen bond C-Br---O. Shankar Madan Kumar, Al-Ostoot Fares Hezam, B.C. Manjunath, Varija Raghu Shamprasad, Yasser Hussein Eissa Mohammed , N. Mahesh, Zabiulla, A.K. Shaikath, N.K. Lokanath and K. Byrappa. **J. Molecular Structure.** **1156** (2018) **216-223**.
12. Recent progress on anti-cancer of amide appended heterocyclic and its possible therapeutic applications. a review drug progress for cancer therapeutics Yasser Hussein Eissa Mohammed, Shaikath Ara Khanum. **Int J Pharma Bio Sci** **9** (2018) **94-124**.

13. Synthesis of salicylic acid fused dihydropyrazole analogues and their mechanism of action on Escherichia coli cell. Naveen Puttaswamy, Rekha ND, Lakshmi Ranganatha V, Bushra Begum A, Shaikath Ara Khanum. **Der Pharma Chemica** **9**, (2017) 91-97.
14. A Route Towards Nano-Graphene Morphology and its Electrical Properties (A Review) Ajmal Shariff, P. S. Puttaswamy, Zabiulla, Mohammed Aziuk, Shaikath Ara Khanum **IJSPPR**: **41**, (2017) 2349-4689.
15. Biological Evaluation of 2, 5-Di (4 Aryloylaryloxy Methyl)-1, 3, 4-Oxadiazoles Derivatives as Antimicrobial Agents Yasser Hussein Eissa Mohammed, HD Gurupadaswamy, Shaikath Ara Khanum **Med Chem** **7** (2017) 837-843.
16. The anti-invasive role of novel synthesized pyridazine hydrazide appended phenoxy acetic acid against neoplastic development targeting matrix metallo proteases. Yasser Hussein Eissa Mohammed, Prabhu Thirusangu, Zabiulla, Vigneshwaran V, Prabhakar B.T, Shaikath Ara Khanum **Biomedicine & Pharmacotherapy** **95** (2017) 375–386.
17. Design and synthesis of conjugated azo-hydrazone analogues using nano BF<sub>3</sub>·SiO<sub>2</sub> targeting ROS homeostasis in oncogenic and vascular progression Zabiulla, V. Vigneshwaran, A. Begum Bushra, G.S. Pavankumar, B.T. Prabhakar, Shaikath Ara Khanum. **Biomedicine & Pharmacotherapy** **95** (2017) 419–428.
18. Synthesis, characterization, thermal and antimicrobial studies of schiff base m(ii) complexes. Asha M S, Othbert Pinto, Joseph N Sebastian, Sumana Naik and Shaikath Ara Khanum. **Int. J. Adv. Res.** **5**(8), (2017) 2189-2204.
19. Synthesis, Characterization, Crystal structure and Hirshfeld Surface Analysis of o-Tolyloxy-acetic acid (1H-indol-3-ylmethylene)-hydrazide. S.V., Mamatha,. Naveen Shivalingegowda, Zabiulla, Yasser Hussein, Lokanath Neratur Krishnappagowda Shaikath Ara Khanum **Chemical data collection**. **11–12** (2017) 1–10.
20. Synthesis, characterization, crystal structure and Hirshfeld surface analysis of 1-(4-ethoxyphenyl)-3-(4-methylphenyl) prop-2en-1-one Karthik Kumara, Mahima Jyothi, Zabiulla, Naveen Shivalingegowda, Shaikath Ara Khanum, Lokanath Neratur Krishnappagowda **Chemical data collection** **9–10** (2017) 152–163.
21. Synthesis, Characterization, Crystal structure and Hirshfeld Surface Analysis of ethyl 2-(2-oxo-2H-chromen- 4-yloxy) acetate, Mahima Jyothi, Naveen Shivalingegowda, Zabiulla, Yasser Hussein Issa Mohammed, Neratur Krishnappagowda Lokanath and **Shaikath Ara Khanum**, **Chemical data Collection**, **2017 9–10** (2017) 1–10
22. Synthesis of novel morpholine conjugated benzophenone analogues and evaluation of antagonistic role against neoplastic development. Mohammed Al-Ghorbani, Prabhu Thirusangu, HD Gurupadaswamy, V Vigneshwaran, Yasser Issa, BT Prabhakar, Shaikath Ara Khanum, **Bioorg. Chem** **71** (2017) 55-66.
23. A tumoural angiogenic gateway blocker, Benzophenone-1B represses the HIF-1 $\alpha$  nuclear translocation and its target gene activation against neoplastic progression Prabhu Thirusangu, V. Vigneshwaran, V. Lakshmi Ranganatha, B.R. Vijay Avin, Shaikath Ara Khanum, Riaz Mahmood, K. Jayashree, B.T. Prabhakar. **Biochem. Pharmacology** **125**

(2017) 26-40.

24. Evaluation of Antioxidant Activity of Coumarin Derivatives Conjugated with Benzophenone Zabiulla, Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Mahima Jyothi, S.V., Mamatha, Noor Fathima Khanum And Shaukath Ara Khanum. **International J Scientific Progress And Research: 32, (2017) 2349-4689**
25. BP-1T, an antiangiogenic benzophenone-thiazole pharmacophore, counteracts HIF-1 signalling through p53/MDM2-mediated HIF-1 $\alpha$  proteasomal degradation Prabhu Thirusangu, V. Vigneshwaran, T. Prashanth, B. R. Vijay Avin, Vikas H. Malojirao, H. Rakesh, Shaukath Ara Khanum, Riaz Mahmood and B. T. Prabhakar. **Angiogenesis 20, (2017) 55–71.**
26. Analysis of Biological Efficacy Data of Piperazine Analogues. Mohammed Al-Ghorbani, Vidya, R, Abdulrahman Algabri, Adel Almarashi, Shaukath Ara Khanum. **Int. J. Res. Emer.Sci. Tech. 3 (2016) 1-7.**
27. Antimicrobial Evaluation of Benzophenone-N-Ethyl Piperidine Ether Derivatives. Zabiulla, Mahima Jyothi, Yasser Hussein Issa Mohammed, Noor Fathima Khanum, Shaukath Ara Khanum. **IJSPR 21 (2016) 1-6.**
28. Analysis of Biological Efficacy Data of Piperazine Analogues Mohammed Al-Ghorbani, Vidya, R, Abdulrahman Algabri, Adel Almarashi, Shaukath Ara Khanum. **Internat. J. Res. Emerg. Sci. And Techn. 3 (2016) 1-7.**
29. Methyl 2-(benzoyloxy)benzoate. P. Naveen, S. Naveen, Zabiulla, S. B. Benaka Prasad, N. K. Lokanath, Shaukath Ara Khanuma and Ismail Warad. **Acta Cryst. IUCrData (2016) 1, x161934.**
30. 5-(4-Methoxyphenyl)-1,3,4-oxadiazol-2-amine. S. Naveen, P. Naveen, Zabiulla, H. R. Manjunath, N. K. Lokanath, , Shaukath Ara Khanum and Ismail Warade. **Acta Cryst. IUCrData (2016) 1, x161896.**
31. The prevalence of malnutrition in developing countries: A review Yasser Hussein Issa Mohammed, Noor Fathima Khanum, S. V. Mamatha, Mahima Jyothi, Zabiulla, Fares Hezam Al-Ostoot and Shaukath Ara Khanum **J.Bio.Innov 5 (2016) 810-815.**
32. Synthesis, X-ray crystal structure study, Hirshfeld surface analysis and biological activity of N-(2-amino-phenyl)-2-methyl-benzamide. Latha Rani Nagaraju, Lakshmi Ranganatha Venkataravanappa, SridharMandayam Anandalwar, and Shaukath Ara Khanum. **J, Applied Chem, (2016) 1-7.**
33. 2-(2-Isopropylphenoxy)acetic acid. Yasser Hussein Issa Mohammed, S. Naveen, S. V. Mamatha, Mahima Jyothi, Shaukath Ara Khanuma and N. K. Lokanath. **Acta Cryst. IUCrData (2016) 1, x161714**
34. Evaluation of Azamacrocyclic Transition Metal Complexes as Antibacterial and Antifungal Activities. Bushra Begum A, Zabiulla and Shaukath Ara Khanum **IJSPR 26 (2016) 163-167.**
35. Study of marine-derived anti-mycobacterium compounds: A review Mahima Jyothi, Yasser Hussein Issa Mohammed, Zabiulla, S. V. Mamatha, Fares Hezam Al-Ostoot and Shaukath Ara Khanum. **J.Bio.Innov 5 (2016) 647-662.**

36. Synthesis, Characterization, Crystal structure and Hirshfeld Surface Analysis of (2-oxo-2H-pyridin-1-yl)-acetic acid hydrazide. Zabiulla, S. Naveen, S. V. Mamatha, Mahima Jyothi, N. S. Lingegowda, N. K.Lokanath and Shaukath Ara Khanum. **Der Pharma Chemica, 8 (2016) 36-44.**
37. Evaluation of antioxidant activity of locally available green teas in India. Yasser Hussein Issa Mohammed, Guruprasad N. and Shaukath Ara Khanum. **Der Pharma Chemica, 8 (2016) 374-379.**
38. Structural Study and Antibacterial Activity of a Benzophenone Derivative: [2-Bromo-4-(2-chloro-benzoyl)-phenoxy]-acetic acid ethyl ester **Latha Rani N, Prashanth T, Zabiulla, Sridhar M.A and Shaukath Ara Khanum J. Applicable Chem. 5 (2016) 628-636**
39. Durantol - a phytosterol antifungal contributor from *Duranta repens* Linn. For organic Management of Sorghum Downy Mildew. Heminder Singh, Farhan Zameer, Shaukath Ara Khanum and Rajkumar H. Garampalli **Eu. J. Plant Pathol. (2016) 1-12** DOI 10.1007/s10658-016-0951-5
40. Evaluation of adhesive and anti-adhesive properties of *Pseudomonasaeruginosa* biofilms and their inhibition by herbal plants.Farhan Zameer<sup>1</sup>, Rukmangada M.S, Jyoti Bala Chauhan, Shaukath Ara Khanum, Pramod Kumar, Aishwarya Tripurasundari Devi, Nagendra Prasad MN, Dhananjaya B. L. **Iranian J. Microbiology 8 (2016) 108–119.**
41. Design and synthesis of diamide-coupled benzophenones as potential anticancer agents Zabiulla, Shamanth Neralagundi HG, Bushra Begum A, Prabhakar B.T and Shaukath Ara Khanum. **Eu. J. Med. Chem 115 (2016) 342–351.**
42. Synthesis and biological evaluation of salicylic acid conjugated isoxazoline analogues on immune cell proliferation and angiogenesis. Naveen Puttaswamy, G.S. Pavan Kumar, Mohammed Al-Ghorbani, V. Vigneshwaran, B.T. Prabhakar, Shaukath Ara Khanum, **Eu. J. Med. Chem 114 (2016) 153–161.**
43. Evaluation of in-vitro antioxidant activity of benzophenone pyridine analogues. Yasser Hussein Issa Mohammed, Noor Fatima Khanum, Mohammed Al-Ghorbani, Zabiulla and Shaukath Ara Khanum. **Der Pharma Chemica, 8 (2016) 23-28.**
44. Anti-diabetic activity of *Dracaena cinnabari* Balf. f extracts from resin in Socotra Island Yemen. Yasser Hussein Issa Mohammed and Shaukath Ara Khanum. **Plant Biochemistry and physiology 4 (2016) 1-6.**
45. Synthesis of 2-(2-aryloxy)methyl-oxazolines as potent analgesic and anti-inflammatory agents. Shaukath Ara Khanum, Noor Fatima Khanum, Mohammed Al-Ghorbani and Zabiulla. **Der Pharma Chemica, 8 (2016) 453-461.**
46. Structural Elucidation, Synthesis, Characterization and Hirshfeld Surface Analysis of ethyl 2-(2-bromophenoxy)acetate. Yasser Hussein Issa Mohammed, S. Naveen, Zabiulla, Mohammed Al-Ghorbani, S. V. Mamatha, H. R. Manjunath, N. K. Lokanath and Shaukath Ara Khanum. **Der Pharma Chemica, 8 (2016) 219-225.**
47. 2-Chloro-6-fluorophenyl 4-chlorobenzoate. Yasser Hussein Issa Mohammed, S. Naveen, N. K. Lokanath, H. R. Manjunath, Mohammed Al-Ghorbani and Shaukath Ara Khanum **Acta Cryst. 1 (2016) x160415.**

48. Ethyl 2-(4-chloro-3-methylphenoxy)acetate. Yasser Hussein Issa Mohammed, S. Naveen, N. K. Lokanath and Shaukath Ara Khanum *Acta Cryst.* 1 (2016) x160416.
49. Synthesis, characterization, Hirshfeld analysis, crystal and molecular structure studies of 2,6-difluoro phenoxy acetic acid. Yasser Hussein Issa Mohammed, S. Naveen, Hamid Hussein Issa, H. R. Manjunath, N. K. Lokanath and Shaukath Ara Khanum. *Der Pharma Chemica*, 8(2016) 286-291.
50. Synthesis and an angiolytic role of novel piperazine--benzothiazole analogues on neovascularization, a chief tumoral parameter in neoplastic development. Mohammed Al-Ghorbani, Prabhu Thirusangu, Naveen P. H.G. Shamanth Neralagundi, B.T. Prabhakar, Shaikath Ara Khanum *Bioorg. Chem* 65 (2016) 110–117.
51. Synthesis and antiproliferative activity of benzophenone tagged pyridine analogues towards activation of caspase activated DNase mediated nuclear fragmentation in Dalton's lymphoma Mohammed Al-Ghorbani, Prabhu Thirusangu, H.D. Gurupadaswamy, V.Girish, H.G. Shamanth Neralagundi, B.T. Prabhakar, Shaikath Ara Khanum *Bioorg. Chem* 65 (2016) 73–81.
52. Structural studies of a novel bioactive benzophenones derivative: (4-Chloro-2-hydroxyphenyl)-phenyl-methanone. Zabiulla, S. Naveen, A. Bushra Begum, Shaikath Ara Khanum, and N. K. Lokanath. *Mol. Cryst. Liq. Cryst.* 625 (2016) 233–237.
53. Synthesis, characterization, and antibacterial activity of 6-Chloro-8-methyl-2-oxo-2Hchromene- 3-carboxylic acid ethyl ester N. Latha Rani, T. Prashanth, M. A. Sridhar, H. D. Gurupadaswamy, Shaikath Ara Khanum and N. K. Lokanath *Mol. Cryst. Liq. Cryst.* 624 (2016) 262–270.
54. Synthesis and Evaluation of *in vitro* Antibacterial Properties of Secoisolariciresinol Diglucoside Sadiq Mareai, Shaikath Ara Khanum and Javaraiah Rajesh. *Int. J. of Biochem. Res. & Rev.* 9, (2016) 1-6.
55. Synthesis and Characterization of Pyrimidine, Pyridine and Chromen-2-One Analogues Mohammed Al-Ghorbani, Gurupadaswamy H.D, Nandini K N and Shaikath Ara Khanum *J. of Applicable Chem.*, 5 (2016) 116-121.
56. Comparative evaluation of antimicrobial and antioxidant efficacy of 7-methyl -2-(phenoxymethyl)-5H-[1,3,4]thiadiazolo [3,2-a] pyrimidin-5-one analogues-An *in-vitro* study S. V. Mamatha, Noor Fatima Khanum, Zabiulla, Mohammed Al-Ghorbani, Yasser Issa, Mahima Jyothi and Shaikath Ara Khanum. *Der Pharmacia Lett*, 7 (2015) 246-254.
57. Synthesis of oxadiazole–morpholine derivatives and manifestation of the repressed CD31 Microvessel Density (MVD) as tumoral angiogenic parameters in Dalton's Lymphoma Mohammed Al-Ghorbani, V. Vigneshwaran, V. Lakshmi Ranganatha, B.T. Prabhakar, Shaikath Ara Khanum. *Bioorg. Chem* 60 (2015) 136–146.
58. Synthesis, Characterization, and Antibacterial Activity of 7-Fluoro-2-oxo-2H-chromene-3-carboxylic Acid Ethyl Ester N. Latha Rani, T. Prashanth, M. A. Sridhar, V. Lakshmi Ranganatha, A. K. Shaikath Ara Khanum and N. K. Lokanath *Mol. Cryst. Liq. Cryst.* 623 (2015) 265–274.
59. Synthesis and biological efficacy of novel piperazine analogues bearing quinoline and pyridine moieties. M. Al-Ghorbani, N. D. Rekha, V. Lakshmi Ranganatha, V. Prashanth, T. Veerabasappagowda, and S. A. Khanum *Rus. J. Bioorg. Chem.* 41 (2015) 554-561.



60. Review article on Piperazine and morpholine Synthetic preview and pharmaceutical applications. Mohammed Al-Ghorbani, Bushra Begum A, Zabiulla, Mamatha S. V. and Shaukath Ara Khanum. *J. Chem.Pharm. Res.* 7 (2015)281-301.
61. Crystal Structure of 2,4,6-Triisopropyl-2',5'-dimethoxybiphenyl. N. Sharma, T. Prashanth, V. Lakshmi Ranganatha, S. Ara Khanum, R. Kanta, and V. K. Gupta. *Crystallography Reports*, 60 (2015) 1116–1120.
62. Crystal structure of (2-methylphenoxy)- acetohydrazide. Naresh Sharma, P. Naveen, Shaikath Ara Khanum, Rajni Kant and Vivek K. Gupta. *Eu. Chem. Bull* 4 (2015) 310-312.
63. Synthesis and evaluation of novel benzophenone-thiazole derivatives as potent VEGF-A inhibitors. Prashanth T, Prabhu Thirusangu, B.R. Vijay Avin, V. Lakshmi Ranganatha, B.T. Prabhakar and Shaikath Ara Khanum *Eu. J. Med. Chem* 87 (2014) 274-283.
64. Synthesis, crystal Structure and antibacterial activity of 7-methoxy-2-oxo-2H-chromene-3-carboxylic acid ethyl ester Latha Rani Nagaraju, Prashanth Thibbegowda, Sridhar Mandayam Anandalwar, Lakshmi Ranganatha Venkataravanappa, Shaikath Ara Khanum, and Neratur K. Lokanath. *JSMR* 2 (2014) 60-66.
65. Synthesis, Characterization, Thermal, Anticancer and DNA Binding Properties of Co(II), Ni(II), Cu(II), Cd(II) And Zn(II) Complexes with Schiff Base. Asha M S , Bushra Begum A, Rekha N.D, Vasanth Kumar B C & Shaikath Ara Khanum. *International J. Medicine and Pharmaceut. Sci.* 4 (2014) 41-52.
66. Evaluation of Antiinflammatory and Antioxidant Activities of Schiff Base and Its Complexes. Asha M S, Rekha N D and Shaikath Ara Khanum. *International J Advanced in pharmaceut. Res.* 5 (2014) 373-379.
67. Synthesis, Characterization and Catalytic Activity of Azamacrocyclic Transition Metal Complexes Bushra Begum A, Asha M S and Shaikath Ara Khanum. *Chem. Sci. Rev. Lett.* 3, (2014) 673-684.
68. Synthesis, Characterization, Thermal and Biological Studies of Substituted Benzophenone Derived Schiff Base Metal(II) Complexes. Asha M S, Bushra Begum A, N D Rekha, Mallikarjun B Chougala and Shaikath Ara Khanum *Chem. Sci. Rev. Lett.* 3, (2014) 735-746.
69. Synthesis, Xanthine Oxidase Inhibition, and Antioxidant Screening of Benzophenone Tagged Thiazolidinone Analogs V. Lakshmi Ranganatha, A. Bushra Begum, P. Naveen, Farhan Zameer, Raghavendra Hegdekatte and Shaikath Ara Khanum *Arch. Pharm. Chem. Life Sci.* 347, (2014) 589–598.
70. (2,5-Di(4-aryloxy)methyl)-1,3,4-oxadiazole) exhibits p53 induced apoptogenesis through Caspase-3 mediated endonuclease activity in murine carcinoma. Gurupadaswamy H.D., Prabhu T., Vijay Avin B.R., Vigneshwaran V, Prashanth Kumar M.V., Abhishek T.S., Lakshmi Ranganatha V., Shaikath Ara Khanum., Prabhakar B.T *Biomedicine and pharmacotherapy* 68 (2014) 791-797.
71. Synthesis, characterization, biological and catalytic applications of transition metal complexes derived from Schiff base A. Bushra Begum, N. D. Rekha, B. C. Vasantha Kumar, V. Lakshmi Ranganatha and Shaikath Ara Khanum. *Bioorg. Med. Chem. Lett.* 24 (2014) 3559–3564.
72. Design, Synthesis and Evaluation of benzophenone Appended Heterocyclic Amides as Xanthine oxidase Inhibitors V. Girish, V Lakshmi Ranganatha, J. N. Narendra Sharath chandra and Shaikath Ara Khanum *Chem. Sci. Rev. Lett.* 3, (2014) 304-313.

73. Synthesis and evaluation of antiangiogenic and anticancer properties of novel oxadiazole analogues V. Girish, Rekha N. D, V Lakshmi Ranganatha, Manjula S. N and Shaukath Ara Khanum *Inter. Res. J. Pharmacy* 5, (2014) 489-494.
74. Synthesis, characterization, thermal, anticancer and DNA binding properties of Co(II), Ni(II), Cu(II), Cd(II) and Zn(II) complexes with schiff base Asha M S, Bushra Begum A, Rekha, Vasanth Kumar B C and Shaukath Ara Khanum *Internation. J. Med. Pharmaceuti Sci* 4, (2014) 41-52.
75. Antimicrobial Activity of Azamacrocyclic Complexes of Cu (II), Ni (II), Zn (II) and Ag (I) with their Spectroscopic Approach. Bushra Begum A, Noor Fatima Khanum, Naveen P , Gurupadaswamy H D, Prashanth T, and Shaukath Ara Khanum *International Journal of Scientific and Research Publications*, Volume 2014, 4, 1-7.
76. Synthesis and Evaluation of In vitro Antimicrobial Activity of Novel 2-[2-(aroyl)aroyloxy]methyl-1,3,4-oxadiazoles. Girish V, Noor Fatima Khanum, Gurupadaswamy H. D and Shaukath Ara Khanum. *Russian journal of Bioorganic chemistry*. (2014) 40, 357-362
77. Synthesis, antioxidant and xanthine oxidase inhibitory activity of 5-[4-[2-(5-Ethyl-2-pyridinyl) ethoxy] phenyl] methyl]-2, 4-thiazolidinedione derivatives. Bushra Begum A, Muneera Begum, Lakshmi Ranganatha V, Prashanth T, Farhan Zameer, Raghavendra Hegdekatte, Shaukath Ara Khanum *Arch. Pharm. Chem. Life Sci*. 2014, 347, 247–255.
78. Synthesis and Inhibition of Microbial Growth by Benzophenone Analogues - A Simplistic Approach. Lakshmi Ranganatha V., Prashanth T., Naveen P., Mohammed Al-Ghorbani., Asha M.S., Shaukath Ara Khanum. *Asian J Biomed. Pharmaceuti. Sci*. 04 (2014) 55-60.
79. Synthesis, characterization and 1, 3-dipolar cycloaddition of novel sugar-derived nitrones with *N*-arylmaleimides. Mohammed Al-Ghorbani, Usama Al- Timari, Taha Fadh and Shaukath Ara Khanum *Res. J. Chem. Sci*. 4 (2014) 60-67.
80. Evaluation of in-vitro antimicrobial activity of 2-aryloxy methyl oxazoline analogues. Shaukath Ara Khanum, Noor Fatima Khanum. *Discovery* 12 (2014) 41-46.
81. Synthesis of (4-Benzoyl-phenoxy)-acetic acid derivatives and their efficacy as antioxidant agents. Prashanth T, Lakshmi Ranganatha V, Naveen P, Gurupadaswamy H.D, Bushra Begum A, Mohammed Al-Ghorbani, and Shaukath Ara Khanum. *Free Radicals and Antioxidants*. 3(2013) S50-S54.
82. Synthesis and evaluation of in vitro antioxidant properties of novel 2, 5-disubstituted 1,3,4-oxadiazoles. Lakshmi Ranganatha V and Shaukath Ara Khanum. *Russian journal of Bioorganic chemistry*. 40 (2014) 226–233.
83. (4-Fluorophenyl)(2-hydroxy-5-methylphenyl) Methanone C. S. Dileep, V. Lakshmi Ranganatha, N. K. Lokanath, S. A. Khanum and M. A. Sridhar *Acta Cryst.* (2014). **E70, o286**.
84. Synthesis and tumor inhibitory activity of novel coumarin analogues targeting angiogenesis and apoptosis. Vijay Avin B.R., Prabhu Thirusangu., Lakshmi Ranganatha V., Aiysha Firdouse., Prabhakar B.T. and Shaukath Ara Khanum *Eu. J. Med. Chem* 75 (2014) 211–221.



85. Evaluation of Benzophenone-N-ethyl Morpholine Ethers as Antibacterial and Antifungal activities. Bushra Begum A, Noor Fatima Khanum, Lakshmi Ranganatha V, Prashanth T, Mohammed Al-Ghorbani and Shaukath Ara Khanum. *Journal of Chemistry*. 2014, 1-6.
86. (4-Fluorophenyl)(4-hydroxy-3-methylphenyl) Methanone C. S. Dileep, V. Lakshmi Ranganatha, N. K. Lokanath, S. A. Khanum and M. A. Sridhar *Acta Cryst.* (2014). E70, o76.
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#### **PAPERS PRESENTED/ ATTENDED CONFERENCES/SYMPOSIUM/WORKSHOPS:**

1. **7<sup>th</sup> International Multidisciplinary Conference on Global Innovative Research Dimensions.** Jointly organized by International Council of Development Research, Seshadripuram Academy of Business Studies, KS Town, Bangalore, Oriental Research Institute, University of Mysore, State Planning Board, Govt. of Karnataka and Naresuan University, Thailand on 22<sup>nd</sup> and 23<sup>rd</sup> June 2018 at SABS Auditorium KS Town, Bangalore.
2. **National seminar on Bio Prospecting for Sustainable Development-2018.** Organized by Institute of excellence, in association with University with potential for excellence at Vijnana Bhavan, Manasagangotri, Mysore on 23<sup>rd</sup> and 24<sup>th</sup> February 2018.
3. **Half day seminar on Exposure of polymers in end use.** Organized by Central Institute of Plastics Engineering and Technology Mysuru on 23<sup>rd</sup> February 2018.
4. **One day seminar on Chromatography: basics and advances.** Organised by JSS College, of Pharmacy Mysuru on 13<sup>th</sup> October 2017.
5. **State level symposium on Recent development, science, engineering and technology RDSET-2017** Organised by ATME College, of Engineering, Mysuru, on 10<sup>th</sup> October 2017.
6. **One day state level seminar on Innovations and Challenges in Nuclear, Chemical and Biochemical Sciences** Organised by Department of Chemistry and Biochemistry, St. Philomena's College, Mysuru on 24<sup>th</sup> July 2017.
7. **Science Academy lecture workshop** Organised by Department of Molecular Biology Yuvaraja's College, Mysuru on 27<sup>th</sup> and 28<sup>th</sup> April 2017.
8. **UGC sponsored one day national conference on Research Advancement in Chemical Biology**, Organised by JSS College of Arts, Commerce and Science on 23<sup>rd</sup> March 2017.

9. **One day National level conference on Emerging Trends in Nano Chemistry** (NCETNC-17) organized by Sri Dharmasthala Manjunatheshwara Education Society Mysore on 2<sup>nd</sup> February 2017.
10. **Two-day seminar and Exhibition on Energy Mix: Need for the Nation** organized by the Department Chemistry, The National Institute of Engineering Mysuru in association with Indian Nuclear Society on 11<sup>th</sup> and 12<sup>th</sup> January 2017.
11. **One day seminar on Analytical Solutions for Today's Science** organized by Agilent Technologies on 15<sup>th</sup> Dec 2016.
12. **Two days workshop on Recent trends in research methodology and safety measures for handling chemicals in the laboratory.** organized by Post graduate department of chemistry, Sarada vilas college, Mysuru on 9<sup>th</sup> and 10<sup>th</sup> Dec 2016.
13. **Two day National conference on Nuclear energy in India- A boon.** organized by St. Philomena's College Mysore and Indian Nuclear Society, Mysore on 29<sup>th</sup> and 30<sup>th</sup> March 2016.
14. **103<sup>rd</sup> Indian science congress** organized by University of Mysore and ISCA on 3<sup>rd</sup> to 7<sup>th</sup> Jan 2016.
15. **One week short term course on Media and Human rights** organized by the UGC Human Resource development centre Manasagangotri, Mysore, from 30 September to 6<sup>th</sup> October 2015.
16. **Seminar on Benefits of Nuclear and Material sciences in day to day life (BNMS-2015)** organized by Indian Nuclear Society, Mysore and University of Mysore on 21<sup>th</sup> and 22<sup>nd</sup> August 2015.
17. **One day National seminar on Chemistry and Chemical Biology** organized by the University of Mysore, Mysuru on 26<sup>th</sup> May 2015.
18. **Two day National conference on Current Trends in Chemical Biology** organized by the Department Chemistry, JSS College of Arts, Commerce and Science, Ooty Road, Mysore on 2<sup>nd</sup> and 3<sup>rd</sup> March 2015 (oral presentation).
19. **One day seminar on Recent Innovations in Bio-inorganic and Medicinal chemistry** organized by the Department Chemistry, The National Institute of Engineering on 28<sup>th</sup> January 2015.
20. **National seminar on changing profile of malnutrition in India** organized by the Department of Studies in Food Science and Nutrition (UGC-DRS II), Manasagangotri, University of Mysore, Mysuru on 9<sup>th</sup> January 2015.
21. **National conference on pure and applied chemistry (NACOPAC-2014)** organized by the Department of Studies in Chemistry, Manasagangotri, University of Mysore, Mysuru on 29<sup>th</sup> to 31<sup>st</sup> December 2014.
22. **International conference at 7<sup>th</sup> Bangalore India Nano 2014** organized by nano Hub of India, MIM active Sci-Tech communications and VGST Bangalore at Lalit Ashok, Bangalore on 5<sup>th</sup> and 6<sup>th</sup> December 2014.
23. **Two days workshop on overview and applications of scientific equipment-IOE** organized by Institution of excellence, Vijnana Bhavan, Manasagangotri, Mysore on 13<sup>th</sup> and 14<sup>th</sup> October 2014.

24. **National seminar on supramolecules and nanomaterials** organized by St. Philomena's College Mysore on 22<sup>nd</sup> and 23<sup>rd</sup> August 2014.(Benzophenone tagged coumarin analogues: Design, synthesis and anticancer properties)
25. **Regional conference on science and technology for education and health care** organized by the Karnataka science and technology academy and JSS College of Arts, Commerce and Science, Ooty Road, Mysore on 21<sup>st</sup> and 22<sup>nd</sup> February 2014.
26. **Research talk on breast cancer -Its cause, detection and therapy** organized by Sri Jayachamarajendra College of Engineering Mysore on 17<sup>th</sup> February 2014.
27. **International conference on Bangalore Bio India** organized by the Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka and the Vision Group on Biotechnology - Bangalore at Lalit Ashok, bnagalore on 10<sup>th</sup> to 12<sup>th</sup> February 2014.
28. **International Symposium on Chemical Biology-Drug Discovery** organized by University of Mysore on 9<sup>th</sup> and 10<sup>th</sup> January 2014.
29. **Technical workshop on exploring SciFinder (chemical abstracts) for scientific research in academia** organized by Mysore University library, at the Department of Studies in chemistry, University of Mysore, Mysore on 4<sup>th</sup> January 2014.
30. **Workshop on Literature Review** organized by Mysore University library, University of Mysore, Mysore on 19<sup>th</sup> December 2013
31. **International conference at 6<sup>th</sup> Bangalore India Nano 2013** organized by nano Hub of India, MIM active Sci-Tech communications and VGST Bangalore at Lalit Ashok, bnagalore on 4<sup>th</sup> to 6<sup>th</sup> December 2013
32. **National conference on "Recent trends in chemical biology: An overview" (RTCB-2013)** organized by Department of Chemistry and Biotechnology, Teresian College, Mysore in association with Karnataka State Open University, Mysore on 25<sup>th</sup> and 26<sup>th</sup> Oct 2013 (**Synthesis and anti cancer activity of novel benzophenone-benzimidazole analogues: in vitro and in vivo investigations.** (Won Second Prize)
33. **NAAC sponsored National conference on "continuous enhancement of quality in higher educational institutions"** organized by Park's College, Tirupur on 30<sup>th</sup> Sep and 1<sup>st</sup> Oct 2013 (Autonomy and quality assurance in higher educational institutions)
34. **One day seminar on "Publish or perish"** organized by Mysore Librarians and information scientists association on 20<sup>th</sup> July 2013.
35. **National conference on "Frontiers and challenges in Biological Organometallic compounds"** organized by Department of Chemistry, M. S Ramiah Institute of Technology, Bangalore on 20<sup>th</sup> and 21<sup>st</sup> June 2013 (synthesis and biological activity of cobalt complexes)
36. **One day State level workshop" on Basic techniques in instrumental methods** organized by the Postgraduate Departments of chemistry, Biochemistry and Biotechnology, JSS college of Arts, Commerce and Science. Ooty road, Mysore on 27<sup>th</sup> March 2013.
37. **National worksop and training on Biodiversity Status, Conservation and Ethno medicinal usage of rare, endangered and threatned plant species.** Jointly organized by Department of Botany, AVK college for women Hassan and Department of AYUSH Govt of Karnataka on 11<sup>th</sup> & 12<sup>th</sup> March 2013.
38. **"International conference on natural products in the management of cancer, diabetes and viral infections (phytocongress-2013)"** organized by Centre for advanced research in Indian

- system of medicine, SASTRA University, Thanjavur, Tamil nadu. On 7<sup>th</sup> and 8<sup>th</sup> March 2013. Iodine substituted phenols as an antiviral agents.
39. **“ One day State level workshop ”** organized by Maharani’s Science college for women Mysore and KSTA, Bangalore on 26<sup>th</sup> Feb 2013.
  40. **“National seminar on role of autonomy and quality assurance in higher education: issues, achievements and challenges”** organized by Gobi arts and Science College, Gobichettipalayam, Erode district, Tamilnadu. On 1<sup>st</sup> and 2<sup>nd</sup> Feb 2013 *Why do colleges seek autonomy?*
  41. **“5<sup>th</sup> Annual KSTA conference 2012 science and technology for societal transformation”**. Organized by KSTA Bangalore & Dyananda Sagar institutions. On 19<sup>th</sup> and 20<sup>th</sup> December 2012. Management of Severe Acute Malnutrition in Children Under Five Years.
  42. **Two day international lecture series on Bio prospecting for sustainable development** organized by institution of excellence, University of Mysore, Mysore on 29<sup>th</sup> and 30<sup>th</sup> Nov 2012
  43. **“National conference on Green and Sustainable Chemistry”**. Organized by Department of Chemistry, Tumkur University, Tumkur. On 25<sup>th</sup> Feb 2012. *Microwave-Assisted Synthesis of 2-Azetidinonyl 5-(2-benzoyl-phenoxy methyl) 1,3,4-Oxadiazoles.*
  44. **“International conference on Synthetic and structural Chemistry”**. Organized by Department of studies in Chemistry, Mangalore University, Mangalagangothri Mangalore. On 8<sup>th</sup> to 10<sup>th</sup> December 2011. *Synthesis and evaluation of 2,5-di(4-benzoyl)phenoxy methyl-1,3,4-oxadiazoles as anti-cancer agents.*
  45. **One day seminar on chemistry of materials on the occasion of International year of chemistry 2011** organized by Sri Jayachamrajendra college of 25<sup>th</sup> Nov 2011.
  46. **National seminar on Asymmetric synthesis and chiral separation techniques** organized by JSS College of Pharmacy Mysore on 19<sup>th</sup> Nov 2011.
  47. **“International conference On vistas in chemistry (ICVC-2011)”**. Organized by Indira Gandhi Centre for Atomic Research. Kalpakam. On 11<sup>th</sup> to 13<sup>th</sup> October 2011. *Synthesis and evaluation of oxazoline analogues as anti-inflammatory agent.*
  48. **“National conference on Recent trends in Chemistry”**. Organized by Department of Chemistry, PES College of Science, Arts and Commerce, Mandya. On 16<sup>th</sup> and 17<sup>th</sup> September 2011. *Synthesis of azamacrocyclic ligands and their conversion into metallic complexes.*
  49. **National workshop on advance training in proteomics and genomics** organized by Department of studies in biotechnology and microbiology Pooja Bhagavat Memorial Mahajana PG centre on 14<sup>th</sup> and 15<sup>th</sup> Sep 2011.
  50. **“National conference on Herbal Medicines in the era of globalization”**. Organized by Department of Chemistry, Sahyadri Science College. Shivamogga. On 10<sup>th</sup> and 11<sup>th</sup> September 2011. *Efficacy of bioactive compounds from Curcuma aromatica against mosquito larvae.*
  51. **“National seminar on Relevance of chemistry in chemical biology”**. Organized by Department of Chemistry St. Philomena’s College Mysore. On 21 and 22<sup>nd</sup> March 2011. *Synthesis of 3-imidazole-2-Phenyl thiazolidin-4-one and efficacy as xanthine oxidase inhibitory agents.* (Won Second Prize).



52. ***“International conference on The Impact of Climate change on food security”***. Organized by Bishop Moore College Mavalikara, Kerala. On 3<sup>rd</sup> to 5<sup>th</sup> March 2011. *Human health in changing climate*.
53. ***“International symposium on challenges in drug discovery programme -2011”***. Organized by Karnataka state Open University, Manasagangotri Mysore. On 16<sup>th</sup> and 17<sup>th</sup> February 2011. *Synthesis of (5-bromo-1H-indol-3-yl)-acetic acid 4-benzoyl-2-methyl phenyl esters and evaluation of xanthine oxidase inhibitory activity*.
54. ***“National symposium on frontier areas in chemical sciences and nanotechnology”***. Organized by Department of studies in chemistry Kuvempu University Shimoga. On 1<sup>st</sup> and 2<sup>nd</sup> May 2010. *Synthesis and biological evaluation of novel coumarin integrated benzophenone analogues*.
55. ***“International conference on Current trends in Chemistry and Biochemistry”***. Organized by Department of studies in chemistry and Bangalore university. On 18 and 19<sup>th</sup> December 2009. *Synthesis of 2-(4-aryloxy-aryloxymethyl)-7-methyl-[1, 3, 4] thiadiazolo [3,2-a]pyrimidin-5-ones and efficacy as anti-microbial agents*.
56. ***“Seminar on emerging trends in liquid crystals and coordination compounds”***. Organized by Department of chemistry, St. Philomena’s College. Mysore. On 21<sup>st</sup> and 22<sup>nd</sup> August 2009. *Synthesis of 4-chloro-2, 6-dibenzoyl phenols and their conversion into cobalt (III) complexes*.
57. ***“Conference on “The emerging areas in Chemistry NACEAC-2009”***. Organized by Department of studies in chemistry Manasagangotri Mysore, and Industries. On 31<sup>st</sup> July and 01<sup>st</sup> August 2009. *Synthesis and anti-inflammatory activity of piperidine and morpholine analogues*.
58. ***“Seminar on harnessing hydrogen for a clean green world”***. Organized by UGC and Maharani’s Science College for women, Bangalore. On 20<sup>th</sup> February 2009. *Presentation on Combating global warming using carbon dioxide*. (Won First prize.)
59. ***“38<sup>th</sup> National seminar on crystallography”***. Organized by DOS in Geology Manasagangotri Mysore. On 11<sup>th</sup> to 13<sup>th</sup> February 2009. *Presentation on Synthesis and crystallographic analysis of 2, 6-dibenzoyl-4-chloro phenol*.
60. ***“Seventh national convention of chemistry teachers National conference on chemistry vision 2020”***. Organized by Hislop college Nagpur. On 27<sup>th</sup> to 28<sup>th</sup> December 2007. *Oral presentation on synthesis and anti-inflammatory activity of oxazoline analogues*.
61. ***“Capacity building programme on Multimedia and E-content development”***. Organized by Consortium for education communication IUAC campus New Delhi in collaboration with EMMRC Mysore. On 27<sup>th</sup> November to 16<sup>th</sup> December 2006. *LOR on Nature’s prescriptions for common ailments*.
62. ***“Seminar on health and nutrition awareness”***. Organized by DOS in Food Science and Nutrition, UOM, Mysore. On 27<sup>th</sup> March 2006. *Health and nutrition awareness*.
63. ***“National symposium on bioorganic and medicinal chemistry”***. Organized by Department of studies in chemistry Manasagangotri, Mysore. On 5<sup>th</sup> to 7<sup>th</sup> October 2005. *Heterocyclic compounds*.
64. ***“Workshop on teaching methodology”***. Organized by Department of studies in chemistry Manasagangotri Mysore. On 15<sup>th</sup> July 2005. *Innovative development in teaching methodology in Chemistry*.



65. **“Indian science congress”**. Held at Bangalore, on 3<sup>rd</sup> to 7<sup>th</sup> January 2003. Synthesis and valuation of antimicrobial activity of 2-amino-5-(2-aryloxy) aroxymethyl-1, 3,4-oxadiazole analogues.
66. **“XX Conference of Indian council of chemists”**. Organized by Department of studies in chemistry Manasagangotri Mysore. On 22<sup>nd</sup> to 24<sup>th</sup> December 2001. *Photochemical induced dynamic nuclear polarization studies of 2-hydroxy benzophenones.*
67. **“National conference on materials for the new millennium”**. Organized by Dept. of applied chemistry cochin university, kochi. On 1<sup>st</sup> to 3<sup>rd</sup> March 2001. *Synthetic application of benzophenone derivatives and related analogues.*
68. **“IXX. conference of Indian council of chemists”**. Organized by Kuvempu University Shimoga. On 27<sup>th</sup> to 29<sup>th</sup> November 2000. *Synthesis in the field of benzophenone derivatives and related analogues.*
69. **“Recent trends in structure, functions, analysis of molecules and applications”**. Organized by Department of studies in Chemistry, Manasagangotri, Mysore. On 28<sup>th</sup> to 30<sup>th</sup> October. 1999. *Synthesis and electron impact of bishydrazones.*
70. **Workshop on “Incorporation Environmental Education into the curriculum teaching methodology.”** Organized by C. P. R Environmental education centre On 30<sup>th</sup> Dec 1997

#### **ORGANIZED SEMINAR /CONFERENCE:**

- Worked as registration sub committee member during 103<sup>rd</sup> Indian Science Congress, held from 3<sup>rd</sup> to 7<sup>th</sup> Jan 2016,
- Kannada conference
- One day seminar on Kuvempu birth anniversary on 27<sup>th</sup> Dec 2014.
- National Seminar on Statistical Methods and Data Analysis on September 26<sup>th</sup> & 27<sup>th</sup>, 2014.
- National seminar on 150th Birth Anniversary Celebrations of Swami Vivekananda. Educational Vision and Mission of Swami Vivekananda on August 18<sup>th</sup> and 19<sup>th</sup> 2014.
- National seminar on biodiversity for food security on 24<sup>th</sup> -25<sup>th</sup> June 2005.
- State level seminar on frontiers of sciences and technology on 5<sup>th</sup> Jan 2004.

#### **RESEARCH SUPERVISION:**

- ❖ **Number Ph. D candidates awarded 06**
- ❖ **Number of Ph. D candidates submitted thesis 02**
- ❖ **Number of PhD candidates currently working:**
  - **Under DST Inspire Fellowship - 01**
  - **UGC Major Project Fellowship - 01**
  - **Foreign National Fellowship - 01**
  - **others - 03**
- ❖ **Number of M. Phil candidates successfully completed: 10**
- ❖ **Number of Students Guided for PG dissertation : 20**

**RESEARCH PROJECTS:**

Sl no	Title of the project	Name of the funding agency	Duration	Amount	Status
1.	Synthesis and anticancer activity of 2-oxo-2H-chromene-3- carboxylic acid-n-[2-(2-aroyle-aroxyloxy)-acetyl]-hydrazide	University of Mysore Mysore	2 years 2006-2008	<b>01 lakh</b>	Completed
2.	Synthesis of 2-(N-methyl indole) methyl-N(4 benzoyl) phenoxybutanone benzimidazoles and efficacy as anti-microbial agents.	UGC, New Delhi.	3 years 2011-2014	<b>12 lakhs</b>	Ongoing
3.	Synthesis of Coumarin Analogues as Neuroprotectants in <i>Drosophila melanogaster</i> .	Vision Group of Science And Technology. Bangalore.	Five months 15 <sup>th</sup> October 2011 to 15 <sup>th</sup> March 2012	<b>0.3 lakh</b>	Completed
4	Design synthesis and evaluation of benzoxazole and triazole analogues as xanthine oxidase inhibitors	Vision Group Of Science And Technology, Banagalore	3 Years	<b>30 Lakhs</b>	Ongoing
5	Nano synthesis of cadmium selenide and degradation of volatile organic compounds using the nanostructured materials	Vision Group of Science And Technology. Bangalore.	January to May 2015	<b>0.3 lakh</b>	Ongoing
6	Nano BF <sub>3</sub> .SiO <sub>2</sub> : A Green heterogeneous Solid acid for synthesis of azo dyes under solvent – free condition	Vision Group of Science And Technology. Bangalore.	January to May 2015	<b>0.3 lakh</b>	Ongoing
7	Mechanism based validation of novel antiangiogenic molecule BP-IB (benzophenone-IB) targeting HIF-1 $\alpha$ in hypoxia signaling: A drug development for cancer therapeutics	DBT	2015-18	<b>25 Lakhs</b>	Ongoing

**PARTICIPATION IN EXTENSION ACTIVITIES:**

- ❖ Remedial coaching (Done through Sc/ST Special Cell)
- ❖ Rural Development Schemes-Creating awareness and popularizing science among rural high school students. Answering the queries of high school students, which are popularized in Andolana newspaper.

- ❖ Organizing and accompanying PG students for various research and pharmaceutical centers to get first hand exposure in their academic endeavor.
- ❖ Voluntary Organization NGO at Mysore.

**MEMBERSHIP IN ACADEMIC SOCIETIES:**

- ❖ Life member - Indian association of chemistry teachers.
- ❖ Life member - Indian society of analytical scientists.
- ❖ Annual member - Indian Council of Chemists.

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