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### **CAREER SUMMARY:**

PG Teaching - 12 years; UG Teaching - 29 years; Research experience - 24 years

### **ADMINISTRATIVE EXPERIENCE:**

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

### **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 133
- ❖ Total Citations: Over 785
- ❖ h-Index - 17
- ❖ i10-index 25
- ❖ 84 - 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.

### **LIST OF PUBLICATIONS AS ON 2017:**

1. 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, Shaukath Ara Khanum, **Bioorg. Chem xx (2017) xxx.**
2. Evaluation of Antioxidant Activity of Coumarin Derivatives Conjugated with Benzophenone” Zabiulla, Fares Hezam Al-Ostoot, Mahima Jyothi, Yasser Hussein Issa Mohammed, S.V., Mamatha Noor Fathima Khanum and **Shaikath Ara Khanum, International Journal of Scientific Progress and Research, 32, 2017, XX, XX. (In Press)**
  3. 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, XX, XX. (In Press)**
  4. 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.**
  5. 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, Shaikath Ara Khanum, Riaz Mahmood and B. T. Prabhakar. **Angiogenesis 20, (2017) 55–71.**
  6. Analysis of Biological Efficacy Data of Piperazine Analogues. Mohammed Al-Ghorbani, Vidya, R, Abdulrahman Algabri, Adel Almarashi, Shaikath Ara Khanum. **Int. J. Res. Emer.Sci. Tech. 3 (2016) 1-7.**
  7. Antimicrobial Evaluation of Benzophenone-N-Ethyl Piperidine Ether Derivatives. Zabiulla, Mahima Jyothi, Yasser Hussein Issa Mohammed, Noor Fathima Khanum, Shaikath Ara Khanum. **IJSPPR 21 (2016) 1-6.**
  8. Methyl 2-(benzoyloxy)benzoate. P. Naveen, S. Naveen, Zabiulla, S. B. Benaka Prasad, N. K. Lokanath, Shaikath Ara Khanum and Ismail Warad. **Acta Cryst. IUCrData (2016) 1, x161934.**
  9. 5-(4-Methoxyphenyl)-1,3,4-oxadiazol-2-amine. S. Naveen, P. Naveen, Zabiulla, H. R. Manjunath, N. K. Lokanath, , Shaikath Ara Khanum and Ismail Warade. **Acta Cryst. IUCrData (2016) 1, x161896.**
  10. 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 Shaikath Ara Khanum **J.Bio.Innov 5 (2016) 810-815.**
  11. 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 Shaikath Ara Khanum. **J, Applied Chem, (2016) 1-7.**
  12. 2-(2-Isopropylphenoxy)acetic acid. Yasser Hussein Issa Mohammed, S. Naveen, S. V. Mamatha, Mahima Jyothi, Shaikath Ara Khanum and N. K. Lokanath. **Acta Cryst. IUCrData (2016) 1, x161714**
  13. Evaluation of Azamacrocyclic Transition Metal Complexes as Antibacterial and Antifungal Activities. Bushra Begum A, Zabiulla and Shaikath Ara Khanum **IJSPPR 26 (2016) 163-167.**
  14. Hirshfeld Surface Analysis and Crystal Structure of [2-Bromo-4-(4-Fluoro-Benzoyl)-Phenoxy]-Acetic Acid Ethyl Ester, N Latha Rani, T Prashanth, MA Sridhar, V Lakshmi

- Ranganatha, **Shaukath Ara Khanum**, *Molecular Crystals and Liquid Crystals*, 629(1), 2016, 78-85.
15. 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.
  16. 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.
  17. 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.
  18. 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
  19. 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
  20. 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.
  21. 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.
  22. 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.
  23. 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.
  24. 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.
  25. 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.

26. 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.
27. 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.
28. 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.
29. 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.
30. 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, Shaukath Ara Khanum **Bioorg. Chem** **65** (2016) 110–117.
31. 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, Shaukath Ara Khanum **Bioorg. Chem** **65** (2016) 73–81.
32. Structural studies of a novel bioactive benzophenones derivative: (4-Chloro-2-hydroxyphenyl)-phenyl-methanone. Zabiulla, S. Naveen, A. Bushra Begum, Shaukath Ara Khanum, and N. K. Lokanath. **Mol. Cryst. Liq. Cryst.** **625** (2016) 233–237.
33. 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, Shaukath Ara Khanum and N. K. Lokanath **Mol. Cryst. Liq. Cryst.** **624** (2016) 262–270.
34. Synthesis and Evaluation of *in vitro* Antibacterial Properties of Secoisolariciresinol Diglucoside Sadiq Mareai, Shaukath Ara Khanum and Javaraiah Rajesh. **Int. J. of Biochem. Res. & Rev.** **9**, (2016) 1-6.
35. Synthesis and Characterization of Pyrimidine, Pyridine and Chromen-2-One Analogues Mohammed Al-Ghorbani, Gurupadaswamy H.D, Nandini K N and Shaukath Ara Khanum **J. of Applicable Chem.**, **5** (2016) 116-121.
36. Structural Study and Antibacterial Activity of a Benzophenone Derivative: [2-Bromo-4-(2-chloro-benzoyl)-phenoxy]-acetic acid ethyl ester, Sridhar M.A and Shaukath Ara Khanum Latha Rani N, Prashanth T, Zabiulla, J. *Applicable Chem*, **5** (2016), 628-636.
37. Comparative evaluation of antimicrobial and antioxidant efficacy of 7-methyl -2-(phenoxyethyl)-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 Shaukath Ara Khanum. **Der Pharmacia Lett**, **7** (2015) 246-254.
38. 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, Shaukath Ara Khanum. **Bioorg. Chem** **60** (2015) 136–146.

39. 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.
40. 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.
41. Review article on Piperazine and morpholine Synthetic preview and pharmaceutical applications. Mohammed Al-Ghorbani, Bushra Begum A, Zabiulla, Mamatha S. V. and Shaikath Ara Khanum. **J. Chem.Pharm. Res.** 7 (2015)281-301.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. Analysis of antibacterial and antifungal data of benzophenone analogues, Zabiulla, Mohammed Al-Ghorbani and Shaikath Ara Khanum, *Statistical methods and data Analysis, Yuvaraja,s college, University of Mysore, Mysore, 2014, 132-140.*
49. 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.
50. 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.
51. 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.
52. (2,5-Di(4-aryloxyloxy)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., Shaukath Ara Khanum., Prabhakar B.T **Biomedicine and pharmacotherapy** **68** (2014) 791-797.
53. 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 Shaukath Ara Khanum. **Bioorg. Med. Chem. Lett.** **24** (2014) 3559–3564.
  54. Design, Synthesis and Evaluation of benzophenone Appended Heterocyclic Amides as Xanthine oxidase Inhibitors V. Girish, V Lakshmi Ranganatha, J. N. Narendra Sharath chandra and Shaukath Ara Khanum **Chem. Sci. Rev. Lett.** **3**, (2014) 304-313.
  55. 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.
  56. 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.
  57. 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.
  58. 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
  59. 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.
  60. 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.
  61. 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.
  62. Evaluation of in-vitro antimicrobial activity of 2-aryloxy methyl oxazoline analogues. Shaukath Ara Khanum, Noor Fatima Khanum. **Discovery** **12** (2014) 41-46.
  63. 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.
  64. 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.

65. (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.**
66. Synthesis and tumor inhibitory activity of novel coumarin analogues targeting angiogenesis and apoptosis. Vijay Avin B.R., Prabhu Thirusangu., Lakshmi Ranganatha V., Aiyasha Firdouse., Prabhakar B.T. and Shaukath Ara Khanum *Eu. J. Med. Chem* **75** (2014) 211–221.
67. 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.
68. (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.
69. Azamacrocyclic complexes: Synthesis and xanthine oxidase and antioxidant activity. A. Bushra Begum, V. Lakshmi Ranganatha T. Prashanth, M. S. Asha, Farhan Zameer, Raghavendra Hegdekatte, and Shaukath Ara Khanum. *Internation. Res. J. Pure and Applied chem.* **4**, (2014) 60-75.
70. Efficacy of 5-(2-aryloxy) aryloxy methyl-2-phenyl-1,3,4-oxadiazoles as antibacterial and antifungal agents. Bushra Begum A, Noor Fatima Khanum, Naveen P, Lakshmi Ranganatha V, Asha MS, and Shaukath Ara Khanum. *Journal of Applied Pharmaceutical Science.* **3** (2013) 105-109.
71. Synthesis and larvicidal properties of benzophenone comprise indole analogues against culex quinquefasciatus. Lakshmi Ranganatha V, Madhu SK, Shivakumar S, Prashanth T, Bushra Begum A, Gurupadaswamy HD, Shaukath Ara Khanum. *Drug Invention Today.* **5** (2013) 275-280.
72. Design, Synthesis and Anticancer Properties of Novel Benzophenone Conjugated Coumarin Analogues. Lakshmi Ranganatha V, Farhan Zameer, Meghashri S, Rekha N. D, Girish V, H. D. Gurupadaswamy, Shaukath Ara Khanum. *Arch. Pharm. Chem. Life Sci.* **346**, (2013) 901-911.
73. Synthesis, angiopreventive activity, and in vivo tumor inhibition of novel benzophenone–benzimidazole analogs V. Lakshmi Ranganatha, B.R. Vijay Avin, Prabhu Thirusangu, T. Prashanth, B.T. Prabhakar, Shaukath Ara Khanum *Life Sciences* **93** (2013) 904–911.
74. (4-Hydroxy-3,4-dimethylphenyl)(phenyl)methanone C. S. Dilip, T. Prashanth, S. Jeyaseelan, Shaukath Ara Khanum and M. A. Sridhar. *Acta Cryst.* (2013). E69, o1676.
75. (4-Hydroxy-3-methylphenyl)(phenyl)methanone C. S. Dilip, V. Lakshmi Ranganatha N. K. Lokanath Shaukath Ara Khanum and M. A. Sridhar. *Acta Cryst.* (2013). E69, o1330
76. 4-Chloro-2-[(2-chlorophenyl)carbonyl]phenol. A. Bushra Begum, S. Madan Kumar, B. C. Manjunath, Shaukath Ara Khanum and N. K. Lokanath *Acta Cryst.* (2013). E69, o1568.
77. Synthesis of Pyrimidones and Evaluation of Their Xanthine Oxidase Inhibitory and Anti-Oxidant Activities H. D. Gurupadaswamy, Virupaksha Girish, Farhan Zameer, Raghavendra Hegdekatte, Jyoti Bala Chauhan, and Shaukath Ara Khanum. *Arch. Pharm. Chem. Life Sci.* **346**, (2013) 1–7.
78. *In vitro* antibacterial and antifungal evaluation of some benzophenone analogues Mohammed Al-Ghorbani, V. Lakshmi Ranganatha T. Prashanth, A. Bushra Begum and Shaukath Ara Khanum. *Der Pharma Chemica* **5**, (2013) 269-273.
79. Antimicrobial evaluation of 2-azetidinyloxy 5-(2-benzoyloxy-phenoxymethyl)- 1,3,4-oxadiazole

- Derivatives. V. Lakshmi Ranganatha, Mohammed Al-Ghorbani, P. Naveen, A. Bushra Begum, T. Prashanth and **Shaukath Ara Khanum** *Der Pharma Chemica*, 5, (2013) 240-243.
80. Synthesis, characterization and biological applications of mononuclear azamacrocyclic metal complexes. Bushra Begum A, Noor Fatima Khanum, Lakshmi Ranganatha V, Asha M. S and **Shaukath Ara Khanum**. *Internation. J. Med. Pharmaceuti Sci* 3, (2013) 57-68.
  81. In vitro antioxidant potential study of triazole and thiadiazole analogues. M. Al-ghorbani, V Lakshmi Ranganatha, T Prashanth, A Bushra Begum, P. Naveen and **Shaukath Ara Khanum** *J. Chem. Internation. Pharmaceuti. Res.* 5, (2013) 246-250.
  82. Synthesis and efficacy of pyrimidone appended oxadiazole analogues as antimicrobial agents. Gurupadaswamy H. D, Prathap Kantharaju, Noor Fatima Khanum and **Shaukath Ara Khanum**. *Internation. J. Med. Pharmaceuti Sci* 1, (2013) 1-10.
  83. Synthesis and evaluation of in vitro antimicrobial properties of novel benzoophenone tagged indole analogues via 1,3,4-oxadiazole linkage. Lakshmi Ranganatha V, Noor Fatima Khanum and **Shaukath Ara Khanum**. *Internation. J. Med. Pharmaceuti Sci* 1, (2013) 97-106.
  84. Extraction and Evaluation of Antimicrobial and Antiviral Efficacy of *Terminalia bellirica* Fruits Girija Nagendraswamy, Lakshmi Ranganatha V, Bushra Begum A, Prashanth T, Mohammed Alghorbani, Farhan Zameer, **Shaukath Ara Khanum** *Indo Am. J. Pharmaceuti Research* 3 , (2013) 4262-4268.
  85. Evaluation of antioxidant activity of diarylmethanone Integrated thiazidiazine analogues Lakshmi Ranganatha V, Prashanth T, Naveen P, Bushra Begum A, Mohammed Alghorbani, **Shaukath Ara Khanum** *Indo Am. J. Pharmaceuti Research* Vol. 3 , (2013) 4131-4137.
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#### **PAPERS PRESENTED/ ATTENDED CONFERENCES/SYMPOSIUM/WORKSHOPS:**

1. **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.
2. **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.
3. **One day seminar on Analytical Solutions for Today's Science** organized by Agilent Technologies on 15<sup>th</sup> Dec 2016.
4. **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.
5. **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.
6. **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.

7. ***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.
8. ***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.
9. ***One day National seminar on Chemistry and Chemical Biology*** organized by the University of Mysore, Mysuru on 26<sup>th</sup> May 2015.
10. ***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).
11. ***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.
12. ***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.
13. ***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.
14. ***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.
15. ***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.
16. ***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)
17. ***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.
18. ***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.
19. ***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, Bangalore on 10<sup>th</sup> to 12<sup>th</sup> February 2014.
20. ***International Symposium on Chemical Biology-Drug Discovery*** organized by University of Mysore on 9<sup>th</sup> and 10<sup>th</sup> January 2014.
21. ***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.
22. ***Workshop on Literature Review*** organized by Mysore University library, University of Mysore, Mysore on 19<sup>th</sup> December 2013

23. **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, Bangalore on 4<sup>th</sup> to 6<sup>th</sup> December 2013
24. **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)
25. **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)
26. **One day seminar on "Publish or perish"** organized by Mysore Librarians and information scientists association on 20<sup>th</sup> July 2013.
27. **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)
28. **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.
29. **National workshop 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.
30. **"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.
31. **" One day State level workshop"** organized by Maharani's Science college for women Mysore and KSTA, Bangalore on 26<sup>th</sup> Feb 2013.
32. **"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?*
33. **"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.
34. **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
35. **"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-phenoxyethyl) 1,3,4-Oxadiazoles.*
36. **"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.*
37. **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.
  38. **National seminar on Asymmetric synthesis and chiral separation techniques** organized by JSS College of Pharmacy Mysore on 19<sup>th</sup> Nov 2011.
  39. **“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.*
  40. **“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.*
  41. **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.
  42. **“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.*
  43. **“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).
  44. **“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.*
  45. **“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.*
  46. **“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.*
  47. **“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.*
  48. **“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.*
  49. **“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 morpholineanalogues.*
50. **“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.)
  51. **“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.*
  52. **“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.*
  53. **“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.*
  54. **“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.*
  55. **“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.*
  56. **“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.*
  57. **“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.*
  58. **“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.*
  59. **“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.*
  60. **“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.*
  61. **“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.*
  62. **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,



- 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 PhD candidates currently working:**
  - **Under DST Inspire Fellowship - 01**
  - **UGC Major Project Fellowship - 01**
  - **Foreign National Fellowship - 02**
  - **others - 03**
- ❖ **Number of M. Phil candidates successfully completed: 10**
- ❖ **Number of Students Guided for PG dissertation : 18**

#### **RESEARCH PROJECTS:**

<b>Sl no</b>	<b>Title of the project</b>	<b>Name of the funding agency</b>	<b>Duration</b>	<b>Amount</b>	<b>Status</b>
1.	Synthesis and anticancer activity of 2-oxo-2H-chromene-3- carboxylic acid-n-[2-(2-aryoyl-aryoxy)-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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