



**Dr. Jayalakshmi.K M.Sc., Ph.D.**

Assistant Professor of Chemistry

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**Academic Qualifications:**

Degree	Subject	University	Class Obtained	Year
Ph.D	Chemistry: <b>Thesis:</b> Anhydrous Fe <sub>2</sub> O <sub>3</sub> catalyzed synthesis of 2,3-diaryl-1,3-thiazolidin-4-one derivatives and their biological studies	University of Mysore		2001-2005
M.Sc	Chemistry (Specialization in Physical Chemistry)	Bangalore University	First	1997-1999
B.Sc.	Physics, Chemistry and Mathematics	Bangalore University	First	1994-1997

**Life Members in Professional bodies:**

1. Life member of NMRS society, India.
2. Life Member of ISMRM Indian Chapter, USA.
3. Life member of Indian Science Congress, India.
4. Life member of ISAS-Belagavi Chapter India.

**Teaching Experience:**

**31st Dec-2011 to till date:** Working as Assistant Professor of Chemistry, Karnatak Science College, Dharwad, completed 11 years of teaching in undergraduate teaching.

**From 31<sup>st</sup> Dec 2011 to 8<sup>th</sup> Feb 2016:** As Assistant Professor

**From 9<sup>th</sup> Feb 2016 to 8<sup>th</sup> Feb 2021:** As Assistant Professor level-11

**From 9<sup>th</sup> Feb 2021 to till date:** As Assistant Professor in Level-12

**Training Programmes Completed:**

<b>Event</b>	<b>Organizer/Place</b>	<b>Period/ Duration</b>
<b>A. Refresher Course/Training Programme</b>		
1.	Orientation Programme UGC-HRDC, Karnatak University, Dharwad	21-01-2014 to 17-02-2014,
2.	UGC-HRDC, Bangalore University, Bangalore.	18-01-2016 to 08-02-2016
3.	UGC-HRDC, University of Hyderabad, Hyderabad.	September 5-25, 2018, 21 days.
4.	Refresher Course (Online-Mode) UGC-HRDC, JNTUH, Hyderabad.	11-07-2022 to 23-07-2022 (2-week)
<b>E. Short Term Programme</b>		
1.	UGC-HRDC, Jawaharlal Nehru Technological University (JNTU), Hyderabad.	June 22-27, 2020 (1 Week)
2.	UGC-HRDC, University of Gujarat, Gujarat	August 6-12, 2020 (1 week)
<b>F. Faculty Development Programme</b>		
1.	UGC-HRDC-Sabtribai Phule Pune University, Pune, Maharashtra.	July 11-17, 2020 (7-days)
2.	K.L.E.Society's Gudleppa, Hallikeri Arts, Science & Commerce College, Haveri, and R.T.E Society's Art, Science & Commerce Degree College, Ranebennur,	19 <sup>th</sup> July -25 <sup>th</sup> July 2021. (1 week)

**Fellowship/Awards:**

- Post Doctoral Fellowship from the Albert Einstein College of Medicine. Sep 2010 to Dec 2011.
- Research Associate fellowship from Centre of Biomedical Research formerly known as Centre of Biomedical Magnetic Resonance (CBMR) SGPGIMS Campus, Raebareli Road, Lucknow(UP), sponsored by the DST, New Delhi, India, Sept. 2006-March 2008
- Research Associate fellowship from Council of Scientific Industrial Research (CSIR), Government of India, New Delhi, April. 2008-Aug 2009.

### **Administrative Responsibilities:**

1. BOAE Chairperson for M.Sc. General Chemistry (odd semester), February 2021
2. BOAE Chairperson for M.Sc. General Chemistry (even semester), September 2021.
3. BOAE Chairperson for M.Sc. General Chemistry (odd semester), February 2022
4. Co-ordinator for Biotechnology from June 2021 till today.
5. Chairman, Criteria-VII, NAAC June 2022.

### **Research Experience:**

**Sep 2010-Dec 2011:** Worked as Post Doctoral Fellow at Gruss Magnetic Resonance Research Centre (MRRC), Albert Einstein College of Medicine, New York, USA , on the project entitled “MR Spectroscopy to Evaluate Liver Repopulation by Transplanted Hepatocytes” under the guidance of Dr. Craig.A.Branch and Dr. Min-Hui Cui.

**Oct 2009 to 31<sup>st</sup> March 2010:** Worked as Post Doctoral Fellow for the Cerebrospinal fluid (CSF) Proteomics Study at St. John’s Research Institute, St. John’s Medical College, Bangalore,

**Sep 2006-Aug 2009:** Worked as Research Associate at Centre for Biomedical Magnetic Resonance (CBMR), Sanjay Gandhi Post Graduate Institute of Medical Sciences, Campus, Lucknow, India, for the biomedical project involving application of High resolution NMR spectroscopy and Magnetic Resonance Imaging specially on Gastroenterology related diseased viz., Gall Bladder carcinoma, Gall Stones analysis and Small Bowel Permeability.

**Aug 2005-Sep-2006:** Worked as a Chemistry lecturer at Sri Bhagwan Mahaveer Jain College of Engineering, Jakkasandra Post, Kanakapura Taluk, Ramanagara District, Karnatak 562117.

### **Research Publications:**

1.	<sup>1</sup> H-NMR Based Serum Metabolomic Study to Evaluate the Effect of Asarone and Metformin on Experimentally Induced Diabetic-Hepatocellular Carcinoma'. Brigu Kumar Das, <b>Jayalakshmi Kamaih</b> , Pramod Gadad., <i>Bulletin of the National Research Centre</i> , <b>2022</b> , 46: 164
2.	<sup>1</sup> H-NMR based lipid profiling of Gossypium hirsutum seed oil at different developmental stages, Nikita.J.Kurkuri, Sanjay Annarao, Prasanth Miyapadavu, <b>Jayalakshmi Kamaiah</b> , <i>Current Research in Green and Sustainable Chemistry</i> , <b>2021</b> , 4, 100216.

3.	In-vivo <sup>1</sup> H-MRS and <sup>31</sup> PMRSI of the response to cyclocreatine in Transgenic mouse liver expressing creatine kinase, Cui-Min, <b>K. Jayalakshmi</b> , Liu Laibin, Guha Chandan, Branch Craig, <i>NMR in Biomed.</i> <b>2015</b> , 128 (2), 1634-1644.
4.	Lipid Profiling in Gall bladder tissue using <sup>1</sup> H-NMR Spectroscopy: A pilot study <b>Jayalakshmi K</b> , Kanchan Soankar, Anu Behari Kapoor V.K. Neeraj Sinha, <i>NMR Biomed</i> , <b>2011</b> , 24 (4): 335-42.
5.	Abnormal Small Intestinal Permeability in Patients with Idiopathic Mal-absorption in Tropics (Tropical Sprue) Does Not Change Even after Successful Treatment” Kumar S, Ghoshal UC, <b>Jayalakshmi K</b> , Roy R, Misra A, Khetrapal C.L, <i>Dig.Dis.Science</i> , <b>2011</b> , 56, 161-169.
6.	Solid State <sup>13</sup> C-NMR Analysis of Human Gallbladder Stones from Patients with Malignant and Benign Gallbladder Diseases, <b>Jayalakshmi.K</b> . Sonkar K, Kapoor V.K., Behari A. Sinha N, <i>Solid State Nuclear. Magn Reson.</i> 2009 Sep; 36(1):60-5.
7.	Assessment of Small Bowel Permeability using <sup>1</sup> H-NMR Spectroscopy- A pilot study, <b>Jayalakshmi.K</b> . Ghoshal.U.C, Sunil Kumar Singh, Asha Mishra, Raja Roy, Khetrapal.C.L. <i>J.Gastrointestin Liver Dis.</i> 2009, 18(1), 27-32.
8.	In situ HR-MAS NMR: Application in reaction optimization and mechanism elucidation for heterogeneous reagent catalyzed small molecule chemistry, Abhijeet Deb Roy, <b>Jayalakshmi.K</b> , Somanath Dasgupta, Raja Roy and Balaram Mukhopadhyay, <i>Magnetic Resonance in Chemistry</i> , <b>2008</b> , 46 (12), 1119-1126.
9.	Synthesis and crystal structure of 2-(4-chloro phenyl)-3-(phenyl)-1,3-thiazolidin-4-one, S.Doreswamy, <b>K. Jayalakshmi</b> , M.A. Sridhar, J. Shashidhar Prasad, K.S. Rangappa., <i>Acta Cryst.</i> , 2007, E63, o1457-o1458.
10.	Synthesis and crystal structure of 2-(4-chlorophenyl)-3-(4-phthalimide)-1,3-thiazolidin-4-one, S. Doreswamy, <b>K. Jayalakshmi</b> , Basappa, M.A. Sridhar, J. Shashidhara Prasad, K.S. Rangappa, <i>Analytical Sciences.</i> , 2006, 22(7), 181-182.
11.	Synthesis and crystal structure of 2-(4-biphenyl)-3-(4-methylphenyl)-1,3-thiazolidin-4-one, <b>K. Jayalakshmi</b> , M. Mahendra, Basappa, B.H. Doreswamy, M.A. Sridhar, J. Shashidhara Prasad, K.S. Rangappa, <i>J. Chem. Cryst.</i> , 2005, 35, 1, 67 – 7010.
12.	Synthesis and crystal structure of 2-(4-biphenyl)-3-(4-methoxyphenyl)-1,3-thiazolidin-4-one, M. Mahendra, <b>K. Jayalakshmi</b> , Basappa, B.H. Doreswamy, M.A. Sridhar, J. Shashidhara Prasad, K.S. Rangappa, <i>Acta Cryst.</i> , 2005, E61(7), o2315-o2317.
13.	Synthesis and crystal structure of 2-(4-bromo phenyl)-3-(4-methyl phenyl)-1,3-thiazolidin-4-one derivatives, S. Doreswamy, K. Jayalakshmi Santhos S. Gowndkar, M.A Sridhar, J. Shashidhar Prasad. K.S. Rangappa, <i>Analytical Sciences</i> , 2005, 21, x191-192.
14.	“Synthesis and Crystal structure of 2-(3-pyridyl)-3-(4-methyl phenyl)-1,3-thiazolidin-4-one derivatives, S. Doreswamy, <b>K. Jayalakshmi</b> , , M.A. Sridhar, J. Shashidhar Prasad, K.S. Rangappa., <i>Analytical Sciences.</i> , 2005, 21, x217-x218.
15.	“Crystal structure of 6-Phenyl-5,6-dihydrobenzoimidazo[1,2-c]quinazoline”. M. Mahendra, V. Gayathri, <b>K. Jayalakshmi</b> , K. S. Rangappa, M. A. Sridhar and J.Shashidhara Prasad, <i>Acta Cryst.</i> , 2005, E61, o3249–o3251.
16.	Crystal structure of 6-Pyridyl-5,6-dihydrobenzo[4,5]-imidazo[1,2-c]quinazoline” <b>K. Jayalakshmi</b> , H.C. Devarajegowda, M.A. Sridhar, H.G. Bheemanna, V. Gayathri, N.M.N.Gowda, N.S. Begam, K.S. Rangappa, J. Shashidhara Prasad, <i>Analytical Sciences</i> , 2004, 20, x87-88.

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| 17. | Synthesis, Growth, and characterization of Sodium Co-ordinate Glycine-NLO material”<br><b>K. Jayalakshmi</b> , M.A. Sridhar, J. Shashidhara Prasad, M. Narayan Bhatt, and S.M. Dharmaprasad, <i>Mol.Crys.Liq.Cryst.</i> , 2002, 393, 95-103. |
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