



Curriculum Vitae –JAYANNA N D

Address for Correspondence

Dr. JAYANNA N D

Assistant Professor
Department of Chemistry
KLE's Shri Shivayogi Murughendra Swamiji
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Experience

- ❖ Working as **Assistant Professor in Chemistry, KLE's Shri Shivayogi Murughendra Swamiji Arts, Science and Commerce College, Athani from 26th February 2018 to till date.**
- ❖ Worked as **Post Doc Fellow** at Sahyadri Science College, Kuvempu University, Shimoga, Karnataka, India
- ❖ **Ph.D Research Work**
Dept. of Studies and Research in Industrial Chemistry, School of Chemical Sciences Jnana Sahyadri, Kuvempu University.

Thesis title: "**Synthesis and study of plausible biological activity of benzoxazole derivatives**"
- ❖ Worked as **Research Officer** in **Hikal Research and Development Limited**, 32/1 Kalena aghara, Bannerghatta road, Bangalore-76 from of 4th July 2007 to 28th February 2009

Laboratory and Technical Skills

- ❖ Expertise in carrying out multi-step organic synthesis, sensitive organic reactions.
- ❖ Designing different heterocyclic compounds such as Benzoxazole and its analogous, such as quinoline, Pyrazole, Triazole, Tetrazoles.
- ❖ Synthesis of Biologically active Molecules/ Natural Products.
- ❖ Expertise in purification and characterization of organic compounds by different techniques.

Research Interests

- ❖ Development of new methodology in Organic synthesis, catalytic reactions, particularly in Heterocyclic and Medicinal Chemistry.
- ❖ Green chemistry
- ❖ Synthesis of organic polymers and its characterization.
- ❖ Design and synthesis of Heterocyclic compounds, and establishment of their use in the biological application.
- ❖ Synthesis of Biologically active Molecules/ Natural Products.

Fellowship

Rajiv Gandhi National Fellowship, Awarded by University Grants Commission, New Delhi

List of Publications

Research Papers Published/Accepted in Reputed International Journals

PATENT:

1. K. Nagarajan, R.P. Gupta, P.K. Patel, **N.D. Jayanna**, "A Process for the preparation of 1-benzyl-4-[(5,6-dimethoxy-1-indanon)-2-yl]methylpiperidine and acid addition salts thereof.", *Patent No.1162/CHE/2008 A*, Publication date: **20/11/2009**.
2. **N.D. Jayanna**, H.M. Vagdevi, J.C. Dharshan, R. Raghavendra, S.B. Telkar, "Synthesis, Antimicrobial, Analgesic Activity and Molecular docking studies of novel 1-(5,7-dichloro-1,3-benzoxazol-2-yl)-3-phenyl-1H-pyrazole-4-carbaldehyde derivatives" *Med Chem Res* DOI 10.1007/s00044-013-0565-9, 22, 5814-5822, **2013**.
3. **N.D. Jayanna**, H.M. Vagdevi, J.C. Dharshan, T.R. Prashith Kekuda, B.C. Hanumanthappa, B.C. Gowdarshivannanavar, "Synthesis and Biological Evaluation of Novel 5,7-dichloro-1,3-benzoxazole derivatives". *Journal of Chemistry, Hindwai Publishing Corporation, 2013*
4. **N.D. Jayanna**, H.M. Vagdevi, J.C. Dharshan and T.R. Prashith Kekuda, "Synthesis, antibacterial and antioxidant evaluation of novel 1-(5,7-dichloro-1,3-benzoxazol-2-yl)-1H-pyrazolo[3,4-b]quinoline derivatives" *Journal of Chemistry, Hindwai Publishing Corporation, 2013*.
5. **N.D. Jayanna**, H.M. Vagdevi, J.C. Dharshan and T.R. Prashith Kekuda, "Synthesis, Characterization, Antimicrobial, Antioxidant and Larvicidal activities of novel [1-(5,7-dichloro-1,3-benzoxazol-2-yl)-3-substitutedphenyl-1H-pyrazol-4-yl][methylene]aniline derivatives" *International Journal of Chemical Sciences*, 10(3), 1529-1540. **2012**
6. **N.D. Jayanna**, H.M. Vagdevi, J.C. Dharshan, "Synthesis of 6,8-dichloro-3-[(E)-1,2-diphenylethenyl] [1,2,4]triazolo[3,4-b][1,3]benzoxazole derivatives via Knoevenagel method-Study of antimicrobial and antioxidant activity". *Inventi Rapid: Med Chem*, 2014(3):1-6, **2014**.
7. Dharshan, K.A. Vishnumurthy, Y.D. Bodke, H.M. Vagdevi, **N.D. Jayanna**, R. Raghavendra, "Synthesis, characterization and antimicrobial activity of 7-methoxyquinoline-4- substituted 1,2,3-triazole derivatives". *Der Pharma Chemica*, 4(1), 272-281, **2012**.
8. Zaranappa, H.M. Vagdevi, **N.D. Jayanna**, K.P. Latha. "Synthesis, Characterization and evaluation of Antibacterial Activity of some 3-Substitutedphenylquinazoline-2,4-diones". *Der Pharma Chemica*, 4(4), 1754-1758, **2012**.
9. J C Dharshan, K A Vishnumurthy, Y D. Bodke, **N.D. Jayanna**. "Synthesis and Biological Evaluation of Novel 4-[4-(1,3-Benzoxazol-2-yl)-3-Phenyl-1H-Pyrazol-1-yl]-7-Methoxyquinoline Derivatives". *Inventi Rapid: Med Chem*, 2014(1): 1-6, **2013**.
10. Prashith Kekuda T R, Onkarappa R, Jayanna N D. "Characterization and Antibacterial activity of a Glycoside antibiotic from Streptomyces variabilis PO-178" *STAR journal* 3(4), 116-121, **2014**.
11. Rambabu Nunna, **N. D. Jayanna**, D. Ramachandran. "An Improved New path to synthesize Gemfibrozil". *Asian Journal of Chemistry*, 27 (3), 925-928, **2015**.
12. Ajish A D, Vagdevi H M, Asha K, **Jayanna N D**. "Potential Antimicrobial and Antioxidant Activities of Myristica Dactyloides gaetrn bark" *Int J Pharm & Pharm Sci*, 7(5), **2015**.
13. J C Dharshan, K A Vishnumurthy, Y D. Bodke, **N.D. Jayanna**, M D Shafeeulla. "Synthesis, Evaluation and Molecular docking studies of some Novel Pyrazolo [3,4-d]pyrimidine

- derivatives Associated with 7-Methoxy Quinoline” *Asian Journal of Organic and Medicinal Chemistry*, 1 (1), 10-16, **2016**.
14. Shreedhara S. H. Vagdevi H M, K, **Jayanna N D**, Raghavendra R, Kiranmayee P, Prabhu Das and Mohammed Shafeeulla R. “The in vitro Cytotoxic and Molecular Docking Studies of Newly Synthesized Fused Benzoxazole-Triazole Derivatives” *Journal of Chemical and Pharmaceutical Research*, 9(5):108-119, **2017**.
 15. Shreedhara S. H. Vagdevi H M, K, **Jayanna N D**, Raghavendra R, Kiranmayee P, Prabhu Das and Mohammed Shafeeulla R. “In vitro cytotoxic, Antimicrobial and Antioxidant activity of 6-Chloro-2,3-dihydro[1,2,4]triazolo[3,4-b][1,3]benzoxazole Derivatives”. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 8(4), 835, **2017**.
 16. Shreedhara S. H. Vagdevi H M, K, **Jayanna N D**, Raghavendra R, Subbaraju A. “Synthesis, in vitro Cytotoxic, Antibacterial and Antioxidant evaluation of 2-(1,3-benzoxazol-2-yl)-2,3-dihydrophthalazine-1,4-dione derivatives”. *International Journal of Research in Pharmacy and Chemistry*, 7(3), 283-294, **2017**.
 17. Naveen Aradhya S.V., Vishnumurthy K. A., Bhojya Naik H.S., Manjuraj.T., **Jayanna N D**. “Metal Complexes of quinolin-8-yl (1, 3-benzoxazol-2-ylsulfanyl)acetate: Spectral, XRD, thermal, molecular docking and biological evaluation”. *IOSR Journal of Applied Chemistry*, 10(6), 36-43, **2017**.
 18. Naveen Aradhya S.V., Vishnumurthy K. A., Bhojya Naik H.S., Manjuraj.T., **Jayanna N D**., Yuvaraj T.C.M., and Mohammed Shafeeulla R. Metal Complexes of S-(5-chloro-1,3-benzoxazol-2-yl)thiophene-2-carbothioate: Spectral, XRD, Thermal, Molecular Docking and Biological Evaluation. *Journal of Chemistry and Chemical Sciences*, Vol.7(8), 602-614, **2017**.
 19. Shreedhara S. H. Vagdevi H M, K, **Jayanna N D**, Raghavendra R. Synthesis, Characterization and Evaluation of Cytotoxic, antibacterial and Molecular Docking Studies of Fused Heterocyclic 6aH,13H benz[4',5']oxazole[2',3',:2,3][1,3]thiazino[6,5-b]quinolin-13-one derivatives. *Int J Pharma Res Health Sci*. 5 (6): 2055-63, **2017**.
 20. Shreedhara S. H. Vagdevi H M, **Jayanna N D**, Raghavendra R, Subbaraju A. Synthesis, Characterization and Evaluation of in vitro Cytotoxic, Antibacterial, Antioxidant activity and Molecular docking studies of nitro substituted benzoxazole linked thiazolidine derivatives. *World journal of Pharmaceutical Research*, Vol.7(1), 859-878, **2018**.
 21. Shreedhara S. H. Vagdevi H M, **Jayanna N D**, Manjuraj T. ZnCl₂ Catalysed One Pot Synthesis of Benzoxazole linked Thiazolidine Derivatives. *International Journal of Pharmacy and Biological Sciences*, 2018
 22. Ashok Kumar N B, **Jayanna N D** and K P Latha. Design, Synthesis and Evaluation of In Vitro, Anti-Microbial Activity and Antioxidant Activities of Novel 2-[(1-Acetyl-1H-Benzimidazol-2-Yl)Methyl]Sulfanyl}-6-Nitro-1,3-Benzoxazole Derivatives. *Journal of Pharmaceutical, Chemical and Biological Sciences*, 2018
 23. Ashok Kumar N B, **Jayanna N D** and K P Latha. Synthesis and characterization of (2E)-1-[(6-nitro-1,3-benzoxazol-2-yl)sulfanyl]propan-2-oneN-[(1Z)-(4-chlorophenyl)methylidene]thiosemicarbazone Benzoxazole Derivatives and their biological Activities, *IJPAC*, 2018
 24. Meghashree K S, Latha K P, Vagdevi H M, Ajish A D, Jayanna N D, Arunkumar N C. Screening of Phytochemical content and in vitro Biological investigation of *Canthium*

- dicoccum (gaertn.) and Amischophacelus axillaris (l.), Asian Journal of Pharmaceutical and Clinical Research, 2019.
25. Manjuraj T, Yuvaraj T C M, **Jayanna N D**, Shreedhara S. H, Sarvajith M. S. Spectral, DFT, molecular docking and antibacterial activity studies of Metal Complexes, Journal of Turkish Chemical Society, 2020
 26. S.J. Aditya Rao, T.M. Venugopal, **N.D. Jayanna**, M. Paramesha and C.K. Ramesh. Bioactive Isolates of Morus Species as Antibacterial Agents, Letters in Drug Design & Discovery, 2021
 27. **Jayanna N. D.**, Vagdevi H. M, Dharshan J. C, Manjuraj T. Shreedhara S. H. An efficient synthesis of 2-(6-methoxy-2-naphthyl)-1,3-benzoxazole using IBD/LTA: Reactivity, DFT, Anticancer and Larvicidal activities, Asian J. Research Chem. 2021
 28. Shreedhara S. H, **Jayanna N D**, Manjuraj T, Yuvaraj T C M, Sarvajith M. S. Synthesis, characterization, DFT studies, antibacterial, cytotoxic and molecular docking studies of 3-chloro-1-[(6-nitro-1, 3-benzoxazol-2-yl) amino]-4-phenylazetidin-2-one derivatives, International Journal of Chemical and Biological Sciences, 2021
 29. Manjuraj T, Yuvaraj T C M, **Jayanna N D**, Sarvajith M. S. Design, Spectral, Thermal, DFT studies, antioxidant and molecular docking studies of pyrazole-based schiff base ligand and its metal (II) complexes, Elsevier Material Today Proceedings, 2021
 30. Anees fathima, Vagdevi H. M, **Jayanna N D**, Mohammed Shafeeulla R, Subbaraju Design, Synthesis, Molecular Docking and Biological Evaluation of Novel 2-[(2-[[5-(Pyridin-4-yl)-1, 3, 4-Oxadiazol-2-yl]Sulfanyl}Ethyl)Sulfanyl]-1,3-Benzoxazole, Journal of Pharmaceutical Research International, 2021
 31. Manjuraj T, Krishnamurthy G, Yuvaraj T C M, **Jayanna N D** Mohammed Shafeeulla R. Structural Characterization, DFT, Molecular Docking and Cytotoxic studies of Metal (II) Complexes derived from Thiosemicarbazide , Asian Journal of Chemical Sciences. 2022.
 32. Sudhindra Prathap A, Manivannan Ekambaram, Reetesh Kumar Rai, Sivasankari V and **Jayanna N D**, Acute Toxicity Study of Novel Synthetic Benzoxazole Derivatives, Indian Journal of Natural Sciences, 2022.
 33. Sudhindra Prathap A, Manivannan E, Reetesh Kumar Rai, Sivasankari V and **Jayanna N D**, Antidepressant Activity of Novel Synthetic Benzoxazole Derivative in Depressive Paradigms of Swiss Albino Mice, Indian Journal of Natural Sciences, 2022.
 34. Reetesh Kumar Rai, Sudhindra Prathap A, Manivannan Ekambaram, Sivasankari V and **Jayanna N D**, Acute Toxicity Study of Novel Synthetic Pyridazinone Derivatives, Indian Journal of Natural Sciences, 2022.
 35. Reetesh Kumar Rai, Sudhindra Prathap A, Manivannan Ekambaram, Sivasankari V and **Jayanna N D**, Hepatoprotective Activity of Novel Pyridazinone Derivative against D-

Galactosamine Induced Hepatotoxicity in Rats, Indian Journal of Natural Sciences, 2022.

36. Sudhindra Prathap A, Manoj Kumar Gupta, Mahima Singh, Reetesh Kumar Rai, Manivannan Ekambaram, **Jayanna N D**, Radhika MS, and Kavita Vivek, Evaluation of Anticonvulsant Activity of Novel Synthetic 1,2,4-Triazole Containing Benzoxazole Derivative, European Chemical Bulletin, 2023.
37. **Jayanna N. D.**, Manjuraj T, Imadulla M., Synthesis, Characterization, Density Functional Theory, Molecular Docking Studies, and Biological Activities of 6,8-dichloro-3-phenyl[1,2,4]triazolo[3,4-b] [1,3]benzoxazole Derivatives Indian Journal of Advances in Chemical Science, 2024.

Conferences/Posters/Presentations

presented many research articles/Papers in National and Inter National Conference and also attended the conferences.

Conferences /Workshops organized

1. Organized one day National Student seminar on “Recent Trends in Polymer Chemistry” on 23.03.2018.
2. Organized one day KSTA Sponsored National Conference on “Through the Instruments” on 22.12.2022.
3. Organized various webinars, workshops, special lectures and career guidance programs.

Details of Orientation/Refresher/ FIP /FDP etc Course attended

Sr. No	Name of the course	Place	Duration		No. of Days	Name of the Institution where program is conducted
			From	to		
01	Teachers Training Program in Chemistry	Challakere Campus, Kudapura	22.11.2108	12.12.2018	21	Indian Institute of Science, Challakere Campus, Kudapura, Chitradurga
02	Faculty Development Program	Bangalore	30.04.2020	06.4.2020	8	Government First Grade College, HSR Layout, Bangalore
03	Orientation Program	Delhi	04.06.2020	01.07.2020	28	Teachers Learning Centre, Ramanujan College, University of Delhi

04	Faculty Development Program	Gadag	21.07.2020	22.07.2020	2	K. L. E. Society's Jagadguru Tontadarya College, Gadag, Karnataka
05	Faculty Development Program	Delhi	25.07.2020	10.08.2020	15	Teachers Learning Centre, Ramanujan College, University of Delhi
06	Faculty Development Program	Chikamagalur	19.10.2020	23.10.2020	5	AIT, Chikamagalur, Karnataka
07	Symposium	Hyderabad	04.06.2021	05.05.2021	3	Bharat Institute of Engineering and Technology, Ibrahimpatnam, Hyderabad
08	Faculty Development Program	Bangalore	10.06.2021	16.06.2021	7	Soundarya Institute of Management and Science, Bangalore
09	Faculty Development Program	Mangalore	05.07.2021	11.07.2021	7	GFGC for Women, Balmatta, Mangalore
10	Refresher Course	Hyderabad	08.11.2021	20.11.2021	15	UGC-Human Resource Development Centre University of Hyderabad
11	Refresher Course	Delhi	15.12.2023	29.12.2023	15	Teachers Learning Centre, Ramanujan College, University of Delhi

Other Portfolio

- ♦ Working as Placement Cell Officer from 01.07.2028 to till the date

Dr. Jayanna N D