

FACULTY PROFILE

Title	Dr.	Name	Dukanya	
Designation		Assistant Professor		
Department Name		PG Chemistry		
Address:		Masavally (V), Sakaleshpur (T), Hassan – 573134		
Phone Number		Mobile	9916495749	
Email		dukanyamsl@gmail.com		
Subjects Taught		Physical Chemistry, Analytical Chemistry		
Areas of Interest/Specialization on		Organic Chemistry, Bio-Organic Chemistry, Medicinal Chemistry, Nano science		
Experience (in years)		Teaching	05 Years	
		Industry	04 Months	
		Research	04 Year	
		Total	9.4 Years	
Educational Qualifications		UG	B.Sc. (PCM), University of Mysore	
		PG	M.Sc. Chemistry, University of Mysore	
		Doctorate	Ph.D. in Chemistry, University of Mysore	
		Any other	KSET (2017)	
Paper Publications in Journals		1. Dukanya; Shanmuga, M.K; Rangappa, S.; Metri, P.K; Mohan, S.; Basappa;Rangappa, K. S. Exploring the newer oxadiazoles as real inhibitors of human SIRT2 in hepatocellular cancer cells. Bioorg med chemlett. 2020 , 31,127330. https://doi.org/10.1016/j.bmcl.2020.127330 . 2. Dukanya; Shanmugam, M. K.; Rangappa, S.; Metri, P. K.; Mohan, S.;Basappa; Rangappa, K. S. Anti-Proliferative Activity and Characterization Data on Oxadiazole Derivatives. <i>Data Br.</i> 2020 , 31, 105979. https://doi.org/10.1016/j.dib.2020.105979 .		

3. **Dukanya**; Swaroop, T. R.; Rangappa, S.; Rangappa, K. S.; Basappa, B. Cyclization of Activated Methylene Isocyanides with Methyl N(N),N'-Di(Tri)Substituted Carbamimidothioate: A Novel Entry for the Synthesis of N,1-Aryl-4-Tosyl/Ethoxycarbonyl-1H-Imidazol-5-Amines. *SynOpen* 2019, 03(03), 71–76. <https://doi.org/10.1055/s-0039-1690328>.
4. **Dukanya**; Swaroop, T. R.; Rangappa, S.; Rangappa, K. S.; Basappa, B. Cyclocondensation of sodium azide with methyl N(N),N'-di(tri)substituted carbamimidothioate : A new dimension for the synthesis of 1,5-disubstituted tetrazoles and their cytotoxicity on human breast cancer cells. *Curr. Org.*
5. Somu, C.; Mohan, C. D.; Ambekar, S.; **Dukanya**; Rangappa, S.; Baburajeev, C. P.; Sukhorukov, A.; Mishra, S.; Shanmugam, M. K.; Chinnathambi, A.; Alahmadi, T. A.; Alharbi, S. A.; Basappa, K. S. Identification of a Novel 1,2 Oxazine That Can Induce Apoptosis by Targeting NF-KB in Hepatocellular Carcinoma Cells. *Biotechnol. Reports* 2020, 25, e00438. <https://doi.org/10.1016/j.btre.2020.e00438>.
6. Mohan, C. D.; Bharathkumar, H.; **Dukanya**; Rangappa, S.; Shanmugam, M. K.; Chinnathambi, A.; Alharbi, S. A.; Alahmadi, T. A.; Bhattacharjee, A.; Lobie, P. E.; Deivasigamani, D.; Hui, K. M.; Sethi, G.; Basappa, K. S.; Rangappa, K. S.; Kumar, A. P. N-Substituted Pyrido-1,4-Oxazin-3-Ones Induce Apoptosis of Hepatocellular Carcinoma Cells by Targeting NF-KB Signaling Pathway. *Front. Pharmacol.* 2018, 9, 1–15. <https://doi.org/10.3389/fphar.2018.01125>.
7. Malojirao, V. H.; Girimanchanaika, S. S.; Shanmugam, M. K.; Sherapura, A.; **Dukanya**; Metri, P. K.; Vigneshwaran, V.; Chinnathambi, A.; Alharbi, S. A.; Rangappa, S.; Mohan, C. D.; Basappa, K. S.; Prabhakar, B. T.; Rangappa, K. S. Novel 1,3,4-oxadiazole Targets STAT3 Signaling to Induce Antitumor Effect in Lung Cancer. *Biomedicines* 2020, 8, 368.
8. Gopinatha, V. K.; **Dukanya**; Mantelingu, K.; Rangappa, K. S. Synthesis and Biological Evaluation of Theophylline Acetohydrazide Hydrazone Derivatives as Antituberculosis Agents. *J. Chinese Chem. Soc.* 2020, 67, 1453–61. <https://doi.org/10.1002/jccs.201900558>.
9. Girimanchanaika SS, **Dukanya**, Swamynayaka A, Govindachar DM, Madegowda M, Periyasamy G. Investigation of NPB Analogs That Target Phosphorylation of BAD-Ser99 in Human Mammary Carcinoma Cells. *Int J of Mol Sci.* 2021;22(11002).
10. Vishwanath, D.; Girimanchanaika, S. S.; Dukanya, D.; Rangappa, S.; Yang, J. R.; Pandey, V.; Lobie, P. E.; Basappa, B. Design and Activity of Novel

Oxadiazole Based Compounds That Target Poly(ADP-Ribose)Polymerase. *Molecules* **2022**, 27 (3), 1–20. <https://doi.org/10.3390/molecules27030703>.

11. Pandey, V.; Zhang, X.; Poh, H.-M.; Wang, B.; **Dukanya, D.**; Ma, L.; Yin, Z.; Bender, A.; Periyasamy, G.; Zhu, T.; Rangappa, K. S.; Basappa, B.; Lobie, P. E. Monomerization of Homodimeric Trefoil Factor 3 (TFF3) by an Aminonitrile Compound Inhibits TFF3-Dependent Cancer Cell Survival. *ACS Pharmacol. Transl. Sci.* **2022**. <https://doi.org/10.1021/acsptsci.2c00044>.

12. Parameshwaraiah, S.M.; Xi, Z.; Ravish, A.; Mohan, A.; Shankarnaik, V.; **Dukanya, D.**; Basappa, S.; Preetham, H.D.; Periyasamy, G.; Gaonkar, S.L.; et al. Development of an Environment-Friendly and Electrochemical Method for the Synthesis of an Oxadiazole Drug-Scaffold That Targets Poly(ADP-Ribose)Polymerase in Human Breast Cancer Cells. *Catalysts* **2023**, 13, 1185. <https://doi.org/10.3390/catal13081185>.

13. Yan Qin Tan, Yi-Shiou Chiou, Hui Guo, Shuwei Zhang, Xiaoming Huang, **Dukanya Dukanya**, Arun M. Kumar, Shreeja Basappa, Suling Liu, Tao Zhu, Basappa Basappa. Vertical pathway inhibition of receptor tyrosine kinases and BAD with synergistic efficacy in triple negative breast cancer. *npj Precis. Onc.* **8**, 8 (2024). <https://doi.org/10.1038/s41698-023-00489-3>.

14. Sindhu M. Parameshwaraiah, Rashmi Shivakumar, Zhang Xi, Tejaswini P. Siddappa, Akshay Ravish, Arunkumar Mohan, Lisha K. Poonacha, Pradeep M. Uppar, Shreeja Basappa, **Dukanya Dukanya**, Santhosh L. Gaonkar, Kempaiah Kemparaju, Peter E. Lobie, Vijay Pandey, Basappa Basappa. Development of novel indazolyl-acyl hydrazones as antioxidant and anticancer agents that target VEGFR-2 in human breast cancer cells 23 January 2024 <https://doi.org/10.1002/cbdv.202301950>.

15. Kim, Na & **Dukanya, Dukanya** & Sethi, Gautam & S G, Swamy & Yang, Jirui & Nagaraja, Omantheswara & S., Ananda & Vishwanath, Divakar & Venkatesha, Keerthikumara & Basappa, . & Chinnathambi, Arunachalam & Alharbi, Sulaiman & Madegowda, Mahendra & Sukhorukov, Alexey & Pandey, Vijay & Lobie, Peter & Basappa, Basappa & Ahn, Kwang. (2024). Oxazine drug-seed induces paraptosis and apoptosis through reactive oxygen species/JNK pathway in human breast cancer cells. *Translational oncology*. 49. 102101. [10.1016/j.tranon.2024.102101](https://doi.org/10.1016/j.tranon.2024.102101).

16. Kumar Harish, Keshav & S., Ananda & Nagaraja, Omantheswara & Doreswamy, B. & M, Vindu & Vishwanath, Divakar & Basappa, & Dukanya, Dukanya & Madegowda, Mahendra. (2025). Crystal-Guided Computational Profiling of Dichlorophenyl-Piperazine Ligands as JNK3 Binders: Hydrophobic Interaction-Driven Design for Neurodegenerative Therapy. *Journal of Molecular Structure*. 1351. 144361. [10.1016/j.molstruc.2025.144361](https://doi.org/10.1016/j.molstruc.2025.144361).

	17. Dukanya, Basappa and K S Rangappa (2025). Synthetic Routes and Functional Applications of 1 Amino-1,3,4- Thiadiazole derivatives: Acoprehensive Review. JSSCW QUEST, Volume 8 Issue 2 ISSN 2321-0052. 18. Dukanya, D., Sivakumar, R., Beeraka, N. M., Keerthy, H. K., Venkatesha, K., Basappa, S., ... Basappa, B. (2026). Nano-TiO2 Catalyst-Based Method Development to Synthesize Pyrano-Chromenes Targeting TFF3 in Breast Cancer. <i>Polycyclic Aromatic Compounds</i>, 1–29. https://doi.org/10.1080/10406638.2026.2638969		
Papers Published in Conference Proceedings	1. H Keshav Kumar, S Ananda, Dukanya , V Keerthikumara, Basappa and M Mahendra. Crystal structure, molecular mechanics and <i>In silico</i> analyses of piperizine derivative against human mammary carcinoma cells inhibition. <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 1300 012007 (2024). 10.1088/1757-899X/1300/1/012007.		
No. of Conferences	National	Attended	Organized
		06	01
	International	03	-
No. of workshops/Seminars		Attended	Organized
	National	01	-
	State Level	04	03
No. of Faculty Development Programmes		Attended	
	National	04	
	State Level	04	
Awards & Distinctions	• ISF-UGC project fellow from University Grant Commission, Govt. of India from November 2016 to August 2019. • Senior Research Fellow from Council of Scientific and Industrial Research, Govt. of India from October 2019 to January 2021. • Received the Best Poster Award for the presentation titled ‘Synthesis and Biological Evaluation of Imidazoleamine as a Cytotoxic Agent Against Human Breast Cancer Cell Lines’ at the one-day international symposium ‘Recent Trends in Research Across the World,’ held on December 6, 2019, at the Adichunchanagiri Institute for Molecular Medicine (AIMM), B.G. Nagara.”		
Association with Professional Bodies	Lifetime member – Indian Science Congress		

