

CURRICULUM VITAE

DR.DUKANYA

D/O Chandrashekhara M.B

Masavally (V), Sakaleshpur (T)

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Research Interest

Synthetic Organic chemistry and Bio-Organic chemistry

Education and Training

August 2017– February 2021	Ph.D in chemistry entitled “synthesis, characterization and biological studies of chromene-3-carbonitriles, 1,3,4-oxadiazoles, oxazines and related compounds” under the guidance of Dr.Basappa, Department of studies in Organic Chemistry, university of Mysore, Mysuru.
August 2013 – July 2015	Master’s Degree (M.Sc) in chemistry, University of Mysore, Mysuru, Karnataka, INDIA.
June 2010- May 2013	B.Sc. (Chemistry, Physics, Mathematics) AVK College for Women’s, University of Mysore, Hassan, Karnataka, INDIA.

AcadaemicAchivements

- ◆ Qualified **Karnataka state eligibility test (KSET)** in the year 2017

Research Experience

- M.Sc Dissertation work Jan 2015 to March 2015, Defense Food Research Laboratory(DFRL) Under the Guidance of Dr Farhath Khanum, Scientist “g” &Associate Director, Head Biochemistry, Nano Science and HRD, DFRL, Mysuru. Project Title: “Chemical composition and antioxidant activity of essential oils: evaluation of their antifungal activity against fusarium sporotrichiodes”
- Project fellow (ISF-UGC) **November 2016 to August 2019**, Department of studies in chemistry University of Mysore Mysuru, Karnataka, INDIA.
Research Advisor: Prof. K S Rangappa.
Project Title: “**Development of Inhibitors of Heparanase for Cancer Therapy**”
- Senior Research Fellow (CSIR) **October 2019 to January 2021** Department of studies in Organic Chemistry University of Mysore Mysuru, Karnataka, INDIA.
Research Advisor: Dr. Basappa.
Project Title: “**Synthesis and Biological studies of poly substituted 1,2 oxazines**”

Teaching experience

- ♦ Working as a teacher during the academic year 2015-2016 at Nethaji Public School (CBSC), Vidyanagar, and Hassan.
- ♦ Working as a Assistant professor 30th July 2021to till now at Department of Chemistry (PG), JSS college for women, Saraswathipuram, Mysore

Fellowships/Awards

- ♦ 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.

List of Publications

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. *Data Br.* **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.; Rangappa, 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.; 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.; Girimanjanaika, S.S.; Shanmugam, M.K.; Sherapura, A.; **Dukanya;** Metri, P.K.; Vigneshwaran, V.; Chinnathambi, A.; Alharbi, S.A.;

- Rangappa, S.; Mohan, C.D.; Basappa; 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 AcetohydrazideHydrazone 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. H Keshav Kumar, S Ananda, **Dukanya**, V Keerthikumara, Basappa and M Mahendra: Crystal structure, molecular mechanics and *In silico* analyses of piperizine derivative against human mammary carcinoma cells inhibition. *IOP Conf. Ser.: Mater. Sci. Eng.* **1300** 012007 (2024).
10.1088/1757-899X/1300/1/012007

16. 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.

17. umar 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.

Conference

- ◆ Poster presentation at Two days international Symposium on "Developing drugs for tomorrow: challenges and opportunities" Adichunchanagiri institute for Molecular Medicine, AIMS Medical College Campus, BG Nagara, Nagamangala, Mandya Karnataka-571448, INDIA.

- ◆ Poster presentation at Second national Conference on "Advanced Materials for Health, Energy and Environment" JSS Science and Technology University, Sri Jayachamarajendra college of Engineering, Mysuru, Karnataka, INDIA.

- ◆ Poster presentation at National Conference on "Recent innovations in medical and material chemistry" DOS in Chemistry, University of Mysore , Mysuru, Karnataka, INDIA.

- ◆ **Dukanya**, Swaroop, T. R., Rangappa, S., Rangappa, K. S, Basappa, **poster presentation** on "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" National Conference "**Science & technology: Rural development**", held on 17&18th Oct, 2019 at VijnanaBhavan, University of Mysore, Mysuru

- ◆ **Dukanya**, Swaroop, T. R., Shobith .R, C.D.Mohan, Rangappa, K. S, Basappa, **Poster presentation** on “ Synthesis and biological evaluation of imidazoleamine as cytotoxic agent against human breast cancer cell lines” one day International symposium “**Recent trends in research across the world**”, held on December 06th 2019 at Adichunchanagiri Institute for Molecular Medicine (AIMM), B G Nagara.(**Best Poster Award**)
- ◆ Participated in one day State level seminar on “RECENT VISTAS IN CHEMICAL SCIENCES” held on 07th May 2024 At JSSCW, Mysuru.
- ◆ Participated in one day workshop on “Capacity Building for teachers” held on 24th July 2024 At JSSCW, Mysuru.
- ◆ Participated in one day Workshop on "outcome Based Education ” organized by JSSCW, Mysuru on 13th Sept 2025.
- ◆ Participated in Two day International conference on “ New Challenges and Innovations in Molecular Medicine” held on 28-29th may 2025 at the UOM, Manasagangothri, Mysuru.

Webinars/E-Conference

- Participated in Two days e-conference on Drug discovery and material science held on 15.09.2021 &16.09.2021 at JSS College Of Arts, Commerce & Science, Ooty Road, Mysuru.
- Participated in one day webinar on Research methodology setting objectives in social science research. held on 16.11.2021 at JSS College For Women, Saraswathipura, Mysuru.
- Participated in one day webinar on Nanoparticles as versatile nanozymes: mechanism and applications of selected antioxidant and pro-oxidant nanozymes held on 29.10.2021 at Adichunchanagiri University, Bg Nagara,Mandya.
- Participated in one day webinar on Two dimensional nanostructures for energy conversion and storage application held on 24.12.2021 at Adichunchanagiri University, Bg Nagara,Mandya.
- Participated in one day webinar on Research and clinical application of flowcytometry held on 17.12.2021 at Adichunchanagiri University, Bg Nagara,Mandya
- Participated in one day webinar on Emerging challenges in the advanced phytochemicals against antibiotics resistance held on 03.12.2021 at Adichunchanagiri University, Bg Nagara,Mandya

- Participated in one day webinar on NMR-a boon for advanced research. held on 9.2.2022 at Adichunchanagiri University, Bg Nagara,Mandya
- Participated in one day webinar on Semiconductor heterostructure based detectors for optical communication held on 26.08.2022 at Adichunchanagiri University, Bg Nagara,Mandya
- Participated in one day webinar on Recent development of thermoplastic elastomers (TPEs) as potential alternatives to conventional rubbers held on 07.01.2022 at Adichunchanagiri University, Bg Nagara,Mandya
- Participated in one day webinar on Rheometry and its application in exploring materials characteristics and technological potential held on 11.02.2022 at Adichunchanagiri University, Bg Nagara,Mandya
- Participated in one day webinar on Avian model to study Covid-19/SAR Cov-2 held on 10.06.2022 at Adichunchanagiri University, Bg Nagara,Mandya.
- Participated in one week short term course on Indian knowledge system held on 5.1.2024 to 11.01.2024 at UOM,MGM,Mysuru.
- Participated in one day webinar on Trends in physical chemistry held on 09.06.2023 at ACS Publications.
- Participated in one week workshop on Patent SEA-2024 held on 22.1.2024 to 27.01.2024 at Bhubaneshwar, India.

FDP

- ❖ Attending Five-day National level online FDP on “ICT Tools and Binary accreditation for Modern Higher education Institutions” organised St. Joseph's First grade college, mysuru from 23rd to 27th June 2025
- ❖ Participated in the one day online FDP on “Research paper writing & publishing” organised by GFGC ,Soraba, on 25th June 2025.
- ❖ Attended Five days online FDP on "Research methodology & class room Management” organised by GFGC, T-Dasarahalli from 28th July to 1st August by 2025.
- ❖ Participated in the one day online FDP on "Intellectual property rights organised by GFGC. Domlur on 13th August 2025.

- ❖ Participated in the virtual National Level FDP on " Artificial Intelligence for Teaching Pedagogy" organised by Seshadripuram degreecollege, Mysuru,6th September 2025.
- ❖ Participated in one week National level FDP & virtual panel Discussion on " cultivating Student Success Empowering Teacher for Holistic Student development" organised by Government Ramnarayan chellaram college of commerce management, Bengaluru from 30th June to 7th July 2025.

MEMBERSHIP

- ◆ Lifetime member for Indian science congress Kolkata.

PERSONAL DETAILS

Father's Name	:	Chandrashekhara M B
Date of Birth	:	30.04.1992
Gender	:	Female
Nationality	:	Indian
Marital Status	:	Married
Languages Known	:	English, Kannada
Residential address	:	Dukanya D/O Chandrashekhara M B Masavally (v), Halasulige (P) Sakaleshpura-573134 Hassan (D), Karnataka.

Reference

- ◆ **Prof. K.S. Rangappa** Ph.D., D.Sc., FRSC., FNASc.
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- ◆ **Dr. Basappa**
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