

Name	Dr. Katharigatta Narayanaswamy Venugopala		
Specialization	Pharmaceutical Chemistry		
Current Position	Associate Professor		
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Academic Qualifications	Degree/year/university/country	PostDoctoral Research, 2013 , Department of Biotechnology and Food Technology, Durban University of Technology, South Africa.	
	Degree/year/university/country	PostDoctoral Research, 2011 , School of Chemistry, University of KwaZulu-Natal, Durban, South Africa.	
	Degree/year/university/country	Doctorate in Pharmaceutical Chemistry, 2008 , Rajiv Gandhi University of Health Sciences, Bangalore, India.	
	Degree/year/university/country	Masters in Pharmacy (Pharmaceutical Chemistry), 2001 , Rajiv Gandhi University of Health Sciences, Bangalore, India.	
	Degree/year/university/country	Post Graduate Diploma in Marketing Management, 1999 , Bangalore University, India.	
	Degree/year/university/country	Bachelor in Pharmacy (Pharmaceutical Sciences), 1997 , Bangalore University, Bangalore, India.	
Teaching Experience	College of Clinical Pharmacy, King Faisal University, Kingdom of Saudi Arabia. ➤		
	Durban University of Technology, Durban, South Africa. ➤		
	Al-Ameen College of Pharmacy, Bangalore, India. ➤		
All the Courses Taught and Teaching in KFU with Course number	2010212 : Medicinal Chemistry - I ➤		
	2010222 : Medicinal Chemistry - II ➤		
	2010612 : Pharmaceutical Chemistry ➤		
Research Interests	Design and multi-step synthesis of heterocyclic compounds for MDR and XDR-TB, anti-cancer, analgesic, anti-inflammatory, anti-mosquito, and antioxidant properties. ➤		
	Design and synthesis of natural cyclic depsi-peptide analogues for MDR and XDR-TB by solid and solution phase peptide synthesis method and current methods of isolation and characterization of products. ➤		
	Crystallography and polymorphism of pharmacologically active heterocyclic compounds. ➤		

Research Grants Received	Design, synthesis, and characterization of dihydropyridine scaffolds as anti-tubercular agents. 2017. .1
	Design and development of novel divalent bioisostere scaffolds in conjugation with benzothiazole pharmacophore as anti-Tb agents. 2016. .2
	In silico design, synthesis and characterization of (1,2,7-trisubstituted-indolizin-3-yl)(substituted phenyl)methanone molecular scaffolds: A search for novel anti-tubercular agents against MDR and XDR strains of <i>Mycobacterium tuberculosis</i> , 2015. .3
	Design, synthesis and characterization of pyrimidine molecular scaffolds for anti-TB activity, 2014. .4
	Design, synthesis and characterization of novel pyrimidine analogues as antitubercular agents against MDR and XDR strains of MTB, 2012. .0
	Design and synthesis of natural cyclic depsi-peptide analogues as antitubercular agents against MDR and XDR strains 2010. .7
Publications (Latest 20 publications)	Venugopala KN, Sandeep C, Pran Kishore Deb, Nizar A Al-Shar'i, Melendhran Pillay, Priya Tiwari, Deepak Chopra, Pobitra Borah, Rasoul Tamhaev, Lionel Mourey, Christian Lherbet, Bandar E Aldhubiab, Christophe Tradrat, Mahesh Attimarad, Anroop B Nair, Nagaraja Sreeharsha, Raghu Prasad Mailavaram, Rashmi Venugopala, Viresh Mohanlall, Mohamed A Morsy. Identification of potent indolizine derivatives against Mycobacterial tuberculosis: In vitro anti-TB properties, in silico target validation, molecular docking and dynamics studies. <i>International Journal of Biological Macromolecules</i> . 2024;274:133285. .1
	Mahesh Attimarad, Venugopala KN, Anroop B Nair, Bandar Aldhubiab, Sreeharsha Nagaraja. In silico modified UV spectrophotometric approaches to resolve overlapped spectra for quality control of rosuvastatin and teneligliptin formulation. <i>Open Physics</i> 2024;22(1):20240014. (https://doi.org/10.1515/phys-2024-0014). .2
	Rahul D Nagdeve, Jyoti Swarup Thakur, Sandeep Chandrashekarappa, Keshab M Bairagi, Pran Kishore Deb, Venugopala, K.N, Pradip Kumar Mondal, Maurizio Polentarutti, Osama I Alwassil, Viresh Mohanlall, Susanta K Nayak. Crystal Structure, Hydrogen bonding interactions, Hirshfeld surfaces, Energy frameworks, and DFT calculation of Diethyl 3-(4-substitutedbenzoyl) indolizine-1, 2-dicarboxylates. <i>Journal of Molecular Structure</i> 2024;138080. .3
	Anroop B. Nair, Bandar Aldhubiab, Jigar Shah, Shery Jacob, Mahesh Attimarad, Nagaraja Sreeharsha, Venugopala, K.N, Alex Joseph, Mohamed A. Morsy. Design, Development, and Evaluation of Constant Voltage Iontophoresis for the Transungual Delivery of Efinaconazole. <i>Pharmaceutics</i> 2023; 15(5):1422. .4
	Shinu, P.; Gupta, G.L.; Sharma, M.; Shahzad, K.; Goyal, M.; Nair, A.B.; Kumar, M.; Soliman, W.E.; Rahman, A.; Attimarad, M.; Venugopala, K.N.; Altaweel, A. Pharmacological Features of 18β-Glycyrrhetic Acid: A Pentacyclic Triterpenoid of Therapeutic Potential. <i>Plants</i> 2023, 12(5), 1086. .0
	Dahabiyeh, L.A.; Hudaib, F.; Hourani, W.; Darwish, W.; Abu-Irmaileh, B.; Deb, P.K.; Venugopala, K.N.; Mohanlall, V.; Chandrashekarappa, S.; Abu-Dahab, R.; Mohammad H.Semreen.; Yasser Bustanji. Mass Spectrometry-based metabolomics approach and <i>in vitro</i> assays revealed promising role of 2,3-dihydroquinazolin-4(1H)-one derivatives against colorectal cancer cell lines. <i>European Journal of Pharmaceutical Sciences</i> . 2023, 106378. .7
	Morsy, M.A.; El-Hussieny, M.; Zenhom, N.M.; Nair, A.B.; Venugopala, K.N.; Refaie, M.M.M. Fenofibrate ameliorates letrozole-induced polycystic ovary in rats via modulation of PPARα and TNFα/CD95 pathway. <i>European Review for Medical and Pharmacological Sciences</i> 2022, 26, 7359-7370. .Y
	Venugopala, K.N.; Al-Shar'i, N.A.; Dahabiyeh, L.A.; Hourani, W.; Deb, P.K.; Pillay, M.; Abu-Irmaileh, B.; Bustanji, Y.; Chandrashekarappa, S.; Tradrat, C.; Attimarad, M.; Nair, A.B.; Sreeharsha, N.; Shinu, P.; Haroun, M.; Kandeel, M.; Balgoname, A.A.; Venugopala, R.; Morsy, M.A. Antitubercular, Cytotoxicity, and Computational Target Validation of Dihydroquinazolinone Derivatives. <i>Antibiotics</i> 2022, 11. .A
	Ibrahim, Y.F.; Alorabi, M.; Abdelzاهر, W.Y.; Toni, N.D.; Thabet, K.; Hegazy, A.; Bahaa, H.A.; Batiha, G.E.S.; Welson, N.N.; Morsy, M.A.; Venugopala, K.N.; Abdel-Aziz, A.M. Diacerein ameliorates letrozole-induced polycystic ovarian syndrome in rats. <i>Biomedicine and Pharmacotherapy</i> 2022, 149, doi:10.1016/j.biopha.2022.112870. .9

Venugopala, K.N.; Deb, P.K.; Pillay, M.; Chopra, D.; Chandrashekhara, S.; Morsy, M.A.; Aldhubiab, B.E.; Attimarad, M.; Nair, A.B.; Sreeharsha, N.; Kandeel, M.; Venugopala, R.; Mohanlall, V. 4-aryl-1,4-dihydropyridines as potential enoyl-acyl carrier protein reductase inhibitors: Antitubercular activity and molecular docking study. *Current Topics in Medicinal Chemistry* 2021, 21, 295-306.

Venugopala, K.N.; Chandrashekhara, S.; Deb, P.K.; Tratratt, C.; Pillay, M.; Chopra, D.; Al-Shar'i, N.A.; Hourani, W.; Dahabiyeh, L.A.; Borah, P.; Nagdeve, R.D.; Nayak, S.K.; Padmashali, B.; Morsy, M.A.; Aldhubiab, B.E.; Attimarad, M.; Nair, A.B.; Sreeharsha, N.; Haroun, M.; Shashikanth, S.; Mohanlall, V.; Mailavaram, R. Anti-tubercular activity and molecular docking studies of indolizine derivatives targeting mycobacterial InhA enzyme. *Journal of Enzyme Inhibition and Medicinal Chemistry* 2021, 36, 1472-1487.

P, N.; Prasad Dasappa, J.; B, H.; Chopra, D.; Venugopala, K.N.; Deb, P.K.; Gleiser, R.M.; Mohanlall, V.; Maharaj, R.; S, S.; Poojary, V. Synthesis, characterization and larvicidal activity of novel benzylidene derivatives of fenobam and its thio analogues with crystal insight. *Journal of Molecular Structure* 2021, 1226.

Venugopala, K.N. Synthetic substituted indolizine derivatives and their anti-TB Activity against multidrug-resistant strains of *Mycobacterium tuberculosis*. Tuberculosis Drug Discovery and Development (GRS) Gordon Research Conference July 7-12, 2019 Rey Don Jaime Grand Hotel Castelldefels, Spain.

Venugopala KN, Fernando Albericio, Bander E. Al-Dhubiab, Govender T. Total Synthesis of Natural Cyclic Depsi-Peptides by Convergent SPPS and Macrolactonization Strategy for Anti-Tb Activity. 17th International Conference on Medicinal Chemistry and Molecular Pharmacology, Miami, USA, March 9-10, 2015.

Presentations and Abstracts

Laurel Kasumbwe, Venugopala KN, Odhav B. Properties of 3-mono/dibromoacetyl, 6-halogenated coumarin analogues against *Anopheles arabiensis*. 6th MIM Pan-African Malaria Conference, "Moving towards malaria elimination: Investing in research and control" 2013, 09 October 2013, Durban, South Africa.

Venugopala KN, Chalannavar RK, Odhav B. Synthesis and anti-mosquito properties of methyl 2,6-diphenyl-1-p-tolyl-4-(p-tolylamino)-1,2,5,6-tetrahydropyridine-3-carboxylate. 6th Brazilian Symposium on Medicinal Chemistry, XX Century Diseases & XXI Century Drug Design Strategies. Hotel Continental, Canela, Brazil. October 28-31st, 2012.

Memberships

- The South African Chemical Institute 2015. ➤
 - Royal Society of Chemistry 2012. ➤
 - InPharm Association 2008. ➤
 - American Chemical Society 2004. ➤
 - Indian Society for Technical Education 2002. ➤
 - Association of Pharmaceutical Teachers of India 2001. ➤
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**Workshops /
Seminars
attended**

- Employing Technology in Data Science. January 30, 2024. ➤
 - Language Skills in Writing Scientific Papers. December 24-25, 2023. ➤
 - Sustainable Development Goals in Higher Education Institutions. January 9, 2023. ➤
 - The return of Community Engagement to Institution and Society (Community Engagement Series). November 17, 2021. ➤
 - Using Research Skills in Teaching and Assessment: Designing Health Research. October 03, 2021. ➤
 - 21st Century Skills and Requirement of Economic Growth and Labor Market. February 1, 2021. ➤
 - Data analysis Technology for Publishing in High IF Journals. March 22, 2021. ➤
 - Research writing and Editing skills. March 09, 2021. ➤
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