


Name	Dr. Mahesh V. Attimarad			
Specialization	Pharmaceutical Analytical Chemistry			
Current Position	Associate Professor			
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Academic Qualifications	Degree/year/university/country	Ph.D. 2005, Rajiv Gandhi University of Health Sciences, Bangalore, India		
	Degree/year/university/country	Master of Pharmacy , 1996, Bangalore University, India		
	Degree/year/university/country	Bachelor of Pharmacy , 1994, Gulbarga University, India		
Teaching Experience	10/01/2007 - 5/11/2008, Assistant Professor, School of Pharmacy, Masterskill College of Nursing and Health, Kuala Lumpur, Malaysia ➤			
	01/09/2005 - 08/01/2007, Professor & HOD, Dept of Pharmaceutical Analysis. PES College of Pharmacy, Bangalore, India ➤			
	01/06/1996 - 30/08/2005, Lecturer, Al-Ameen College of Pharmacy, Bangalore, India			
All the Courses Taught and Teaching in KFU with Course number	2010112 : Pharmaceutical organic Chemistry-1 ➤			
	2010123 : Pharmaceutical organic Chemistry-2 ➤			
	2010122 : Pharmaceutical Analytical Chemistry ➤			
	2010222 : Medicinal Chemistry-3 ➤			
	2030111 : Pharmacy Orientation ➤			
Research Interests	Development of new analytical methods for drug molecules in formulations and biological fluids ➤			
	Microwave assisted synthesis of organic compounds. ➤			
	In-vitro antioxidant screening. ➤			
	Screening for anti-inflammatory and analgesic activities. ➤			
	Bioavailability studies in rodents. ➤			

	<p>Mahesh Attimarad, Mohammed Munirul Islam, Sheeba Shafi, Marysheela David, Aminur Rahman, Effren II Plaza Molina. Validation of smart ecofriendly spectroscopic methods for simultaneous determination of sitagliptin, vildagliptin and dapagliflozin in laboratory mixtures and tables by manipulation of UV spectra, Ministry of Education, Saudi Arabia (SAR 30000, Period 2022-2023), (Grant # INST166). .1</p>
	<p>Attimarad M, Venugopala KN, Altaysan, A. Balgoname, A., Shaifi S. Spectroscopic/liquid chromatographic method Development for Simultaneous estimation of anti diabetic drugs in formulations, Deanship of Scientific Research, King Faisal University, Saudi Arabia (SAR 30000, Period 2021-2022), (Grant # 216044). .2</p>
	<p>Attimarad M, Venugopala KN, Islam M, Altaysan, A. Shaifi S. Rapid simultaneous quantitative analysis of hypoglycemic agents by RP-HPLC: Development, Validation and Application to medicines, Deanship of Scientific Research, King Faisal University, Saudi Arabia (SAR 30000, Period 2021-2022), (Grant # NA00040). .3</p>
	<p>Attimarad M, Venugopala KN, Islam M, Sree Harsha Rajasekaran S, Elgorashe R.E.E. Validation of rapid RP-HPLC and green second derivative UV spectroscopic method for simultaneous determination of metformin and remogliflozin in formulation using multivariate optimization, Ministry of Education, Saudi Arabia (SAR 30000, Period 2020), (Grant # IFT20122). .4</p>
Research Grants Received	<p>Mahesh Attimarad, Bandar E. Aldhubiab, Sree Harsha. Anroop Nair, Venugopala K. N., In silico design, Synthesis, Characterization, Screening, Formulation, and Simultaneous determination of anti-tubercular, anticancer or cardiovascular drugs. Group Project, DSR, KFU, Grant number 1811018, 300000 SAR, 2019-2021 .5</p> <p>Venugopala K. N., Sree Harsha, Mahesh Attimarad, Bandar Al Dhubiab, Anroop B. nair, Chemistry and crystallography of novel isoquinoline scaffolds as anti-TB agents against MDR and XDR strains of Mycobacterium tuberculosis, Group Project, DSR, KFU, Grant number 17122011, 299822 SAR, 2017-2019 .6</p> <p>Mahesh Attimarad, Bandar E. Aldhubiab, Sree Harsha. Anroop Nair, "Simultaneous determination of calcium channel blockers and statins by Liquid Chromatography and /or Capillary Electrophoresis in formulations and plasma: application to preclinical pharmacokinetic studies, grant No. 170117, SAR 75500. 2018-2019 .7</p> <p>Venugopala K. N., Sree Harsha, Mahesh Attimarad, Bandar Al Dhubiab, "Design, synthesis and characterization of 1,4-dihydropyridine scaffolds as anti-tubercular agents.", Proposal grant No. 180189, 63000, SAR, 2018-19. .8</p> <p>Mahesh Attimarad, Bandar E. Aldhubiab, Sree Harsha. Anroop Nair, "Simultaneous determination of sacubitril, valsartan, metformin, statin and gliptin by HPLC / CZE in formulations and plasma: Application to stability studies, Proposal grant No. 170010, SAR 68800. 2016-2017 .9</p>
Publications (Latest 20 publications)	<p>Attimarad M, Islam MM, Shafi S, David M, Rahman A, Molina EI. Eco-friendly mathematically manipulated UV spectroscopic procedures to resolve severely overlapped spectra of a binary mixture of dapagliflozin with sitagliptin and vildagliptin. <i>Microchem J</i>, 2023; 190:108700 .1</p> <p>Attimarad, M.; Venugopala, K.N.; Shafi, S.; Balgoname, A.A.; Altaysan, A.I. Smart Spectrophotometric Method Development for Simultaneous Estimation of Antidiabetic Drugs in Formulations. <i>Indian Journal of Pharmaceutical Education and Research</i> 2022, 56, 224-231, doi:10.5530/ijper.56.1.26. .2</p> <p>Attimarad, M.; Venugopala, K.N.; Nair, A.B.; Sreeharsha, N.; Molina, E.I.P.; Kotnal, R.B.; Tratratt, C.; Altaysan, A.I.; Balgoname, A.A.; Deb, P.K. Environmental sustainable mathematically processed UV spectroscopic methods for quality control analysis of remogliflozin and teneligliptin: Evaluation of greenness and whiteness. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> 2022, 278, doi:10.1016/j.saa.2022.121303. .3</p> <p>Al-Khayri JM, Asghar W, Akhtar A, Ayub H, Aslam I, Khalid N, Al-Mssallem MQ, Alessa FM, Ghazzawy HS, Attimarad M. Anthocyanin Delivery Systems: A Critical Review of Recent Research Findings. <i>Applied Sciences</i>. 2022; 12(23):12347. https://doi.org/10.3390/app122312347 .4</p>

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- Attimarad, M.; Venugopala, K.N.; Nair, A.B.; Sreeharsha, N.; Deb, P.K. Experimental Design Approach for Quantitative Expressions of Simultaneous Quantification of Two Binary Formulations Containing Remogliflozin and Gliptins by RP-HPLC. *Separations* 2022, 9, doi:10.3390/separations9020023. .9
- Nair AB, Dalal P, Kadian V, Kumar S, Kapoor A, Garg M, Rao R, Aldhubiab B, Sreeharsha N, Almuqbil RM, Attimarad M, Elsewedy HS, Shinu P. Formulation, Characterization, Anti-Inflammatory and Cytotoxicity Study of Sesamol-Laden Nanosponges. *Nanomaterials*. 2022; 12(23):4211. <https://doi.org/10.3390/nano12234211> .7
- Attimarad, M.; Venugopala, K.N.; Islam, M.M.; Shafi, S.; Altaysan, A.I. Rapid Simultaneous Quantitative Analysis of Hypoglycemic agents by RP HPLC: Development, Validation and Application to Medicine. *Indian Journal of Pharmaceutical Education and Research* 2022, 56, 564-572, doi:10.5530/ijper.56.2.79. .7
- Shinu P, Sharma M, Gupta GL, Mujwar S, Kandeel M, Kumar M, Nair AB, Goyal M, Singh P, Attimarad M, Venugopala KN, Nagaraja S, Telsang M, Aldhubiab BE, Morsy MA. Computational Design, Synthesis, and Pharmacological Evaluation of Naproxen-Guaiacol Chimera for Gastro-Sparing Anti-Inflammatory Response by Selective COX2 Inhibition. *Molecules*. 2022; 27(20):6905. <https://doi.org/10.3390/molecules27206905> .8
- Alkhalifah EAR, Alobaid AA, Almajed MA, Alomair MK, Alabduladheem LS, Al-Subaie SF, Akbar A, Attimarad MV, Younis NS, Mohamed ME. Cardamom Extract Alleviates the Oxidative Stress, Inflammation and Apoptosis Induced during Acetaminophen-Induced Hepatic Toxicity via Modulating Nrf2/HO-1/NQO-1 Pathway. *Current Issues in Molecular Biology*. 2022; 44(11):5390-5404. .9
- Venugopala, K.N.; Shinu, P.; Tratratt, C.; Deb, P.K.; Gleiser, R.M.; Chandrashekhara, S.; Chopra, D.; Attimarad, M.; Nair, A.B.; Sreeharsha, N.; Mahomoodally, F.M.; Haroun, M.; Kandeel, M.; Asdaq, S.M.B.; Mohanlall, V.; Al-Shar'i, N.A.; Morsy, M.A. 1,2,3-Triazolyl-tetrahydropyrimidine Conjugates as Potential Sterol Carrier Protein-2 Inhibitors: Larvicidal Activity against the Malaria Vector *Anopheles arabiensis* and In Silico Molecular Docking Study. *Molecules* 2022, 27, doi:10.3390/molecules27092676. .10
- Venugopala, K.N.; Al-Shar'i, N.A.; Dahabiyeh, L.A.; Hourani, W.; Deb, P.K.; Pillay, M.; Abu-Irmaileh, B.; Bustanji, Y.; Chandrashekhara, S.; Tratratt, 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. *Antibiotics* 2022, 11, doi:10.3390/antibiotics11070831. .11
- Sreeharsha, N.; Philip, M.; Krishna, S.S.; Viswanad, V.; Sahu, R.K.; Shiroorkar, P.N.; Aasif, A.H.; Fattepur, S.; Asdaq, S.M.B.; Nair, A.B.; Attimarad, M.; Venugopala, K.N. Multifunctional Mesoporous Silica Nanoparticles for Oral Drug Delivery. *Coatings* 2022, 12, doi:10.3390/coatings12030358. .12
- Raghunatha, P.; Inamdar, M.N.; Asdaq, S.M.B.; Almuqbil, M.; Alzahrani, A.R.; Alaqel, S.I.; Kamal, M.; Alsubaie, F.H.; Alsanie, W.F.; Alamri, A.S.; Rabbani, S.I.; Attimarad, M.; Mohan, S.; Alhomrani, M. New Thiazole Acetic Acid Derivatives: A Study to Screen Cardiovascular Activity Using Isolated Rat Hearts and Blood Vessels. *Molecules* 2022, 27, 6138. <https://doi.org/10.3390/molecules27196138> .13
- Shinu, P.; Al Mouslem, A.K.; Nair, A.B.; Venugopala, K.N.; Attimarad, M.; Singh, V.A.; Nagaraja, S.; Alotaibi, G.; Deb, P.K. Progress Report: Antimicrobial Drug Discovery in the Resistance Era. *Pharmaceuticals* 2022, 15, doi:10.3390/ph15040413. .14
- Nair, A.B.; Singh, B.; Shah, J.; Jacob, S.; Aldhubiab, B.; Sreeharsha, N.; Morsy, M.A.; Venugopala, K.N.; Attimarad, M.; Shinu, P. Formulation and Evaluation of Self-Nanoemulsifying Drug Delivery System Derived Tablet Containing Sertraline. *Pharmaceutics* 2022, 14, doi:10.3390/pharmaceutics14020336. .15
- Nair, A.B.; Chaudhary, S.; Shah, H.; Jacob, S.; Mewada, V.; Shinu, P.; Aldhubiab, B.; Sreeharsha, N.; Venugopala, K.N.; Attimarad, M.; Shah, J. Intranasal Delivery of Darunavir-Loaded Mucoadhesive In Situ Gel: Experimental Design, In Vitro Evaluation, and Pharmacokinetic Studies. *Gels* 2022, 8, doi:10.3390/gels8060342. .16
- Chohan, M.S.; Attimarad, M.; Venugopala, K.N.; Nair, A.B.; Sreeharsha, N.; Molina, E.I.P.; Kotnal, R.B.; Shafi, S.; David, M.; Shinu, P.; Altaysan, A.I.; Balgoname, A.A. Sensitivity Enhanced Ecofriendly UV Spectrophotometric Methods for Quality Control of Telmisartan and Benidipine Formulations: Comparison of Whiteness and Greenness with HPLC Methods. *International Journal of Environmental Research and Public Health* 2022, 19, doi:10.3390/ijerph19127260. .17
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Attimarad, M.; Venugopala, K.N.; Chohan, M.S.; David, M.; Molina, E.I.I.P.; Sreeharsha, N.; Nair, A.B.; Tratratt, C.; Altaysan, A.I.; Balgoname, A.A. An Experimental Design Approach to Quantitative Expression for Quality Control of a Multicomponent Antidiabetic Formulation by the HILIC Method. *Molecules* 2022, 27, doi:10.3390/molecules27103135. .1^

Attimarad, M.; Chohan, M.S.; Katharigatta Narayanaswamy, V.; Nair, A.B.; Sreeharsha, N.; Shafi, S.; David, M.; Balgoname, A.A.; Altaysan, A.I.; Molina, E.I.I.P.; Deb, P.K. Mathematically Processed UV Spectroscopic Method for Quantification of Chlorthalidone and Azelnidipine in Bulk and Formulation: Evaluation of Greenness and Whiteness. *Journal of Spectroscopy* 2022, 2022, doi:10.1155/2022/4965138. .2^

Mahesh V Attimarad, Bander E Al-Dhubiab, Anroop B Nair and Sree Harsha N. LCMS method for the simultaneous determination of Metformin and Miglitol in Plasma: Application to pharmacokinetic studies Mass Spectrometry Applications in Clinical Laboratories [MSACL 2015], San Diego, CA, USA, March 28 to April 1, 2015. .1

Mahesh V Attimarad, Bander E Al-Dhubiab, Anroop B Nair and Sree Harsha N, and Venugopala K. N., Simultaneous determination of metformin and three gliptins in pharmaceutical formulations using RP HPLC: Application to stability studies on linagliptin tablet formulation” **247th American Chemical Society conference**, March 16-20, 2014, Dallas, USA. .2

Mahesh V Attimarad, Bander E Al-Dhubiab, Anroop B Nair and Sree Harsha N, An LC-MS method for simultaneous determination of ofloxacin and cefixime in human plasma: Mass Spectrometry Applications in Clinical Laboratories [MSACL], San Diego, CA, USA, February 18 to 22, 2013. .3

Mahesh V Attimarad, Bander E Al-Dhubiab, Ibrahim A Alhaider, Anroop B Nair and Sree Harsha N, Mueen Ahmed K Development of a Rapid and Sensitive RP-HPLC Method for the Determination of Metformin and Vildagliptin in Formulation and Plasma. [**American Association of Pharmaceutical Society, AAPS 2013**] .4

Mahesh V Attimarad, Bander E Al-Dhubiab, Ibrahim A Alhaider, Anroop B Nair and Sree Harsha N, Mueen Ahmed K., Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry. [**American Association of Pharmaceutical Society, AAPS 2012**] .5

Mahesh Attimarad and Ramling Kotnal “Ethyl 2-Arylamino-4-(4-Bromophenyl)Thiazol-5-Acetate: Microwave Assisted Synthesis And NSAID’S Activity” accepted for Oral presentation at **Malaysian Pharmaceutical Society Pharmacy Scientific Conference 2008, held on 6-8 August 2008.** .6

Mahesh Attimarad and Pran Kishore Ded, “Microwave Synthesis In The Academic Laboratory” **Commonwealth Pharmaceutical Association and Malaysian Pharmaceutical Society Conference 2007**, Kuala Lumpur Malaysia, 1- 5 August 2007. .7

Memberships

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Life member of Association of Pharmacy Teachers of India(APTI). ➤

Member of Pharmacy Council Of India ➤

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- Workshops / Seminars attended**
- Attended Workshop on "Quality Requirements in Distance and e-learning management system" held at Corel Plaza, Al-Ahsa, KSA, during Mar 13 – 14th, 2012. ➤
 - Attended Workshop on "Effective Use of E-Learning " held at College of Business Management, King Faisal University, KSA, during Feb 25 – 29, 2012. ➤
 - Attended Workshop on "Research Quality, KPIs and Benchmarking "held at Corel Plaza, Al-Ahsa, KSA, during Feb 27 – 28, 2012. ➤
 - Attended Workshop on " Improving Teaching and Student Learning through Course Design Activities: A Research-Based Seminar Series " held at College of Computer Science, King Faisal University, KSA, during Jan 7th to 11th, 2012. ➤
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