

## PROFILE

Name **Dr. M.K. Kalaivani**  
Designation **Junior Scientist**  
Unit **Research and Development Wing**  
**Sree Balaji Medical College and Hospital**  
Affiliating Institution **(SBMCH) - BIHER, Chennai-600 044**  
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Details	Google Scholar	Scopus	Web of Science
<b>Total citations</b>	<b>116</b>		
<b>h-index</b>	<b>5</b>		
<b>i10-index</b>	<b>3</b>		
<b>Total Impact Factor: 8.512</b>			

Education Qualification				
S. No	Institute, Place	Degree	Year	Specialization
1.	Sri Ramachandra Institute of Higher Education and Research, Chennai	Ph.D.	2019	Medicinal Plant and Nephrology
2.	Bharathiyar University, Coimbatore	M.Sc.	2010	Industrial Biotechnology
3.	University of Madras, Chennai	B.Sc.	2008	Biotechnology

Academic Experience			
S. No	Institute, Place	Designation	Period
1	Sree Balaji Medical College and Hospital, Chennai, India	Junior Scientist	2020 - till date
2.	CisGEN Biotech Discoveries Pvt Ltd, Chennai, India	Research executive	2018-2020
3.	Sri Ramachandra Institute of Higher Education and Research, Chennai, India	Research Scholar	2010-2018

Publications –Articles		IF	Citation
1.	Sumathy.Arockiasamy, Vinu. Ramachandran, <b>Kalaivani. M.Kuppuswamy</b> . Antiproliferative activity of methanolic fruit extract of <i>Pedalium murex</i> Linn against Lung Cancer Cell Line A549. Journal of Pharmacy Research 2012, 5(5), 2861-2866.	-	5
2.	<b>Kalaivani M.Kuppuswamy</b> , Bhavana jonnalagadda and Sumathy Arockiasamy. GC-MS analysis of chloroform extract of <i>croton bonplandianum</i> . Int J Pharm Bio Sci 2013 Oct; (4): (P) 613-617.	-	7
3.	G. Keerthana, <b>M. K. Kalaivani</b> , A. Sumathy. <i>In-Vitro</i> alpha amylase inhibitory and anti-oxidant activities of ethanolic leaf extract of <i>Croton bonplandianum</i> . Asian J Pharm Clin Res, Vol 6, Suppl 4, 2013, 32-36.	0.655	46
4.	<b>M.K. Kalaivani</b> , P.Soundararajan, Hannah. R. Vasanthi, A. Sumathy. In-Vitro nephroprotective role of ethanolic root extract of <i>B.diffusa</i> against cisplatin-induced nephrotoxicity. International journal of phyto-medicine 7 (2015), 388-395.	-	3
5.	Bhavana J, <b>Kalaivani M. K</b> and Sumathy A. Cytotoxic and pro-apoptotic activities of leaf extract of <i>Croton bonplandianus</i> Bail. Against lung cancer cell line A549. Indian Journal of Experimental Biology. Vol. 54, June 2016, pp. 379-385.	0.934	-
6.	Uma Dharshini Karupiah Vijayamuthuramalingam, Rajeswari Rajaram, <b>Kalaivani Madhavaram Kuppusamy</b> , Bhavana Jonnalagadda, Sumathy Arockiasamy. Anti-hyperglycemic and antioxidant potential of <i>Croton bonplandianus</i> . Bail fractions in correlation with polyphenol content. Iranian journal of basic medical sciences. Vol.20 (12), 2017, 1390 (IF-2.699).	2.699	5
7.	<b>M. K. Kalaivani</b> , Sumathy Arockiasamy, Cordelia John, Hannah Rachel Vasanthi, P. Soundararajan. Therapeutic Potential of <i>Boerhavia diffusa</i> L. against Cyclosporine A-Induced Mitochondrial Dysfunction and Apoptosis in Madin–Darby Canine Kidney Cells. Pharmacognosy magazine. Vol. 14 (55), 2018, 132-140 (IF-1.525).	1.525	-
8.	M.K, Kalaivani., John, C., Jonnalagadda, B., Kesavan, A., & Arockiasamy, S. (2021). Attenuation of tacrolimus induced oxidative stress, mitochondrial damage, and cell cycle arrest by <i>Boerhavia diffusa</i> root fraction in mdck cell lines. Iranian Journal of Basic Medical Sciences, 24(8), 1087-1097.	2.699	-

Details of Oral Presentation	
1.	<b>M. K. Kalaivani</b> , Dr. J. Angayarkanni. "Production optimization and characterization of pterin-deaminase from <i>Micrococcus luteus</i> " in the National level seminar "Biogalaxia 11" held on 14 <sup>th</sup> October 2011 in Bharathiar University, Coimbatore.
2.	<b>M. K. Kalaivani</b> , J. Bhavana, Dr. A. Sumathy. "Anticancer activity of <i>Croton bonplandianum</i> against lung cancer cell line A549" in the national seminar on "Phytochemical as Therapeutics" held on 24 <sup>th</sup> and 25 <sup>th</sup> February 2012 organized by the Department of Medical Biochemistry, University of Madras.
3.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy. "Attenuation of intrinsic apoptotic pathway in tacrolimus induced nephrotoxicity by <i>Boerhaaviadiffusain</i> MDCK cell line" in the national seminar BRCP-2017 held at Meenakshi College for Women in 30 <sup>th</sup> & 31 <sup>st</sup> January, 2017.
4.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy. "Therapeutic effect of <i>B.diffusa</i> against Calcineurin inhibitors induced nephrotoxicity" in the 160th year post-centenary Diamond Jubilee celebrations on The international conference on Nutraceuticals- Concepts & Applications in Diseases on 16th February 2018 held at Department of Biochemistry, Madras University. ( <b>Best Paper Presentation Award</b> ).
5.	<b>M. K. Kalaivani</b> , Sentamil Selvan. <i>In-vitro</i> anti-bacterial and anticancer activity of <i>Rosa chinensis</i> flower extract presented in the International Conference on Advances in Biosciences and Biotechnology (ICABB-2021) organized by the Department of Biotechnology, Mother Teresa Women's University, Kodaikanal on August 12-13, 2021.

Details of Poster Presentation	
1.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy, Dr. Hannah R Vasanthi, Dr. P. Soundararajan. " <i>In-vitro</i> antioxidant and nephroprotective role of <i>Boerhaaviadiffusa</i> against cisplatin induced nephrotoxicity" in the Third International Seminar on Sustainable Utilization of Tropical Plant Biomass Through Biotechnology (SUPBT 2012), organized by K.V.M. college of Engineering & Information Technology.
2.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy, Dr. Hannah R Vasanthi, Dr. P. Soundararajan. "Protective Effect of <i>Boerhaaviadiffusa</i> ethanolic Root Extract Against Cisplatin & Tacrolimus Induced Nephrotoxicity" in the 9 <sup>th</sup> National Research Scholars Meet- 2013 held at Advanced Centre for Treatment, Research and Education in Cancer (ACTREC).
3.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy, Dr. Hannah R Vasanthi, Dr. P. Soundararajan. "Nephroprotective role of <i>Boerhaaviadiffusa</i> root against FK506 induced Nephrotoxicity" in the 34 <sup>th</sup> annual conference of IABMS and National symposium on "Role of Natural Resource in Health care", held at Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani campus ( <b>Best poster presentation award</b> ).
4.	<b>M. K. Kalaivani</b> , Dr. A. Sumathy, Dr. Hannah R Vasanthi, Dr. P. Soundararajan. "Protective effect of <i>Boerhaaviadiffusa</i> against Cyclosporine induced nephrotoxicity" in the 4th Indian Academy of Biomedical Sciences Conference-2015 (IABS-2015) held at CSIR-IICT audio-

rium, Tarnaka, Hyderabad.
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Details of Workshop Attended	
1.	Participated in ‘Advanced GCP workshop’ conducted by SRU-Pfizer organized by Sri Ramachandra University from November 26 <sup>th</sup> & 27 <sup>th</sup> , 2011.
2.	Participated in National level workshop on ‘Techniques in Bioactive Metabolites from Marine and other Bioresources’ organized by AMET university from December 12 <sup>th</sup> – 16 <sup>th</sup> , 2011.
3.	Participated in National level workshop on ‘Quality sustenance in Research Publications’ organized by IQAC, Sri Ramachandra University on June 4 <sup>th</sup> & 5 <sup>th</sup> , 2012.
4.	Participated in ‘14 <sup>th</sup> Indo-US flow cytometry workshop’ conducted by Sri Ramachandra University from October 28 <sup>th</sup> to 30 <sup>th</sup> , 2013.

Projects	
Sponsored projects	
1.	Human Ace-2 Receptor polymorphism on SARS-Cov2 susceptibility in Chennai Population - An in vitro approach. <b>Role : Principal Investigator</b> <b>Funding Agency : BIHER</b> <b>Amount : 2,00,000</b>
2.	A study on the association of trans luminal diameter of coronary arteries and cardiovascular risk factors with the single nucleotide polymorphism of FTO gene. <b>Role : Co-Principal Investigator</b> <b>Funding Agency : BIHER</b> <b>Amount : 2,00,000</b>
3.	Role of Gut microbiota on the pathophysiology of Type II diabetes in obese patients. <b>Role : Co-Principal Investigator</b> <b>Funding Agency : BIHER</b> <b>Amount : 2,00,000</b>