



**NAME: Dr. M. Karthikeyan**

**DESIGNATION: Associate Professor**

## Contact

Address : Dr. M. Karthikeyan M.Sc., Ph.D.,  
Associate Professor  
Department of Bioinformatics, Science campus  
Alagappa University, Karaikudi – 630 004.

Employee Number : 34402

Contact Phone (Office) : +91-4565-223344

Contact Phone (Mobile) :

Contact e-mail(s) : [mkbioinformatics@gmail.com](mailto:mkbioinformatics@gmail.com),  
[karthikeyanm@alagappauniversity.ac.in](mailto:karthikeyanm@alagappauniversity.ac.in)

Skype id : -

Website : <http://mkarthikeyan.bioinfoau.org>

## Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D	University of Madras, Chennai	2006	Biomedical Genetics	Highly recommended/ Awarded
M.Sc.	University of Madras, Chennai	1999	Biomedical Genetics	Second class
NET / JRF / SLET/Lectureship	Bharathidasan University, Trichy	1999	SLET in Microbiology	Qualified

PG Diploma	Bharathidasan University	1999	Computer Applications	First Class
B.Sc.	Bharathidasan University	1996	Zoology	First Class

## Teaching Experience

Total Teaching Experience : 19 Years

Position	Institution	Duration	
		FROM	TO
Associate Professor	Alagappa University, Karaikudi- 630003	18.08.2020	Till date
Assistant Professor (18.08.08-17.08.12) I (18.08.12-17.08.17) II 18.08.20 – 18.08.20) III	Alagappa University, Karaikudi- 630003	18.08.2008	17.08.2020
Lecturer	Vels College of Science, Pallavaram, Chennai-117	01.07.2005	15.02.07

## PDF/ Visiting Professor: Abroad

Position	Institution	Duration
Post-Doctoral Research Associate and Instructor	College of Pharmacy, Nova South-eastern University, Florida, USA-33328	5 Months

## Research Experience

Total Research Experience : 24 Years

Position	Institution / University	Duration
Ph.D	Dr. ALMPGIBMS, University of Madras	5 Years
Scientist in- charge	Nichi-In center for Regenerative Medicine, Vadapalani, Chennai-600026	5 Months
Post-Doctoral Research Associate and Instructor	College of Pharmacy, Nova South-eastern	5 Months

	University, Florida, USA-33328	
Lecturer	Vels College of Science, Pallavaram, Chennai-117	2 Years
Assistant Professor	Alagappa University, Karaikudi-630003	12 Years
Associate Professor	Alagappa University, Karaikudi-630003	4 Years

### Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1.	Chairman, Evaluation Board, Bioinformatics	Annamalai University, Chidambaram.	2015	2016
2.	Chairperson, Board of Studies	Department of Microbiology and Clinical Lab Technology, Alagappa University, Karaikudi.	2022-23	2024-25
3.	Assistant Director Centre for International relations (CIR)	Alagappa University , Karaikudi	18.02.17	Till date
4.	Deputy Coordinator, PG Diploma in Pharmacogenomics	Alagappa University, Karaikudi	22.07.13	Till date
5.	Deputy Coordinator, Incubation and Technology transfer centre	Alagappa university , Karaikudi	2018	Till date
6.	Deputy Coordinator Higher education Best practices Cell	Alagappa University, Karaikudi	2018	2021
7.	Coordinator at Department level	Department of Bioinformatics, Alagappa university , Karaikudi	2009	Till date
	1. Time table committee,			
	2. Alumni and Parent teacher Association			
	3. Journal club			
	4. Remedial Coaching		2016	2020

	classes			
8.	University representative for DDE Exams	Various DDE Exam centers of Alagappa University	2008	Till date
9.	Member, Board of Studies	Department of Bioinformatics, Alagappa University, Karaikudi	2009	Till date
		Department of Bioinformatics, Bishop Heber College, Trichy	12.11.19	11.11.23
10.	Convener of the Organizing committee, 30 <sup>th</sup> , 31 <sup>st</sup> and 32 <sup>nd</sup> Convocations of Alagappa University	Alagappa University, Karaikudi	20.12.2017 1.11.2018 1.10.2019	
11.	Member of Academic Council	<ol style="list-style-type: none"> <li>1. Member, Question Paper setting and evaluation board: UG &amp; PG Examination of following Universities: <ul style="list-style-type: none"> <li>✓ Alagappa University</li> <li>✓ Bharathidasan University</li> <li>✓ Bharathiar University</li> <li>✓ Chettinadu University</li> <li>✓ Annamalai University</li> <li>✓ Pondicherry University</li> <li>✓ PSGR Krishnammal College for Women.</li> </ul> </li> <li>2. Member-(Basic Medical Scientist – Internal), Institute Ethics Committee (Human Studies).</li> <li>3. Member, Institutional BioSafety Committee (IBSC), Alagappa University.</li> <li>4. Member of Ph.D Research Advisory/ Doctoral Committee: Bharathidasan University, Vels Institute of Science, Technology and Advanced Studies, Vellore.</li> </ol>	2008	Till date
12.	Member of Executive Council	Life Member cum Treasurer, Bioinformatics Drug Discovery Society (BIDDS).	2020	Till date
13.	Member of Professional/ Academic Bodies	<ol style="list-style-type: none"> <li>1. Life Member, Indian Science Congress Association, Kolkata.</li> <li>2. Life Member, Indian Society of Human Genetics.</li> <li>3. Life Member, Institute of Researchers, Wayanad, Kerala.</li> <li>4. External Examiner and Doctoral</li> </ol>	2008	Till date

		<p>Committee Member in Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Department of Biomedical Sciences, Bharathidasan University, Tiruchirappalli, Department of Biotechnology, Srimad Andavan Arts and Science College, Tiruchirappalli and Department of Biotechnology, Acharya Nagarjuna University, Andhra Pradesh, Department of Biological Sciences, AcSIR, CSIR-Human Resource Development Centre, Ghaziabad, India.</p> <p>5. Selection Committee Member (SRF/JRF/Project Fellow) under DST-PURSE Programme</p> <p>6. Selection Committee Member of Project fellow In UGC Sponsored Project</p> <p>7. External and Internal Member in M.Phil., PhD Thesis Examiner in Alagappa University, Karaikudi.</p> <p>8. External Member in PhD Thesis Examiner in Madurai Kamaraj University, Madurai.</p> <p>9. External Member in Doctoral Committee Member in Vellore Institute of Technology, Vellore, India.</p>		
14.	Others (Specify)	<p>Stock verification Officer at Alagappa University in following Departments:</p> <ol style="list-style-type: none"> <li>1. Department of Physical Education and Health Science</li> <li>2. Department of Oceanography</li> <li>3. Department of Economics and Rural Development</li> <li>4. Department of Biomedical Sciences.</li> </ol>	2012	2018

## Areas of Research

Dr. M. Karthikeyan and his team is interested in understanding the genetic and molecular basis of variation in drug response for human diseases like hypertension, diabetics, cardiovascular diseases, renal failure, neurological disorder and so on to study therapeutic efficacies and side effects of the drugs through the computational and experimental methods. The focus of the lab is to identify genes and interacting genetic factors that contribute to drug response. This involves study of metabolic pathways and gene-gene, protein-protein interactions by using multiple linear regression analyses for the establishment of significant associations between genetic variants and phenotypes of biomedical importance. Further his research team is conducting research on Database creation and Computer Assisted Drug Discovery (CADD) to design the various drugs/lead molecules for Hypertension, Diabetes, Cancer and Influenza viruses through 3D-QSAR, Molecular Docking, High Throughput Virtual Screening and Molecular dynamics simulation etc. In doing so, we hope to ultimately translate our research activities into clinically useful tools to help us improve clinical outcomes from drug therapy and to facilitate the development of new medications for the future.

- Human Molecular Genetics
- Pharmacogenomics and Computer Aided Drug Discovery
- Cell Signaling
- Database Creation & Management

## Patents Filed

- **Title of the Patent - NIL**

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	-	-
	Ph.D	7	4

	M.Phil	8	-
Project	PG	38	8
	UG / Others	3	-

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
110	40	10	80	10

**Cumulative Impact Factor (as per JCR)** :237.217

**h-index** : 21

**i10 index** : 50

**Total Citations** : 1423

## Publications

**Thesis Evaluated** : 10

**Viva voce Examiner** : 10

## Funded Research Projects

### Ongoing Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	ICMR, Government of India,	2023	2025	Molecular Insight and In Vitro Validation of novel lead molecules against SH3BP2 and KIT Protein	Rs. 24.5 L

	New Delhi.				
2.	EIR Hub of RUSA-2.0, Government of India, New Delhi	2023	2024	Nutrigenomics and Computational Prospective studies on Parkinson Disease	Rs. 8 L
3.	TANSCHE, Government of TamilNadu, Chennai.	2021	2024	Design and evaluation of oxazole based novel Inhibitors for Aquaporins and to study their efficacy on testicular leying cell function in Diabetes	Rs. 31.88 L

### Completed Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	UGC, Government of India, New Delhi.	2009	2012	Genetic polymorphisms of the Essential Hypertension associated genes in random subjects of the South Indian general population	Rs.13.31 L
2.	AURF, Alagappa University, Karaikudi - 630 003.	2009	2012	Molecular and bioinformatics analysis of Breast cancer gene polymorphisms (BRCA1 and BRAC2) in Tamilnadu population	Rs. 0.64 L
3.	CSIR, Government of India, New Delhi.	2011	2014	Investigation of binding of HA protein with sialic acid and ligand base lead identification of neuraminidase inhibitor of H1N1 2009 influenza A virus	Rs. 15.98 L
4.	DBT, Government of India, New Delhi	2016	2019	Computational identification and In vitro validation of small molecular inhibitors for tankyrase protein to inhibit the over expression of wnt/ $\beta$ catenin signaling mechanism using Colorectal cancer.	Rs. 30.48L
5.	RUSA-2.0, Government of India, New Delhi	2018	2021	Translational Health Research for Human, Animal and plant Systems	Rs. 35.0 L
6.	RUSA-2.0, Government of India,	2023	2023	Translational Health Research for Human, Animal and plant Systems	Rs. 58 L



	New Delhi				
7.	AURF, Alagappa University, Karaikudi - 630 003.	2009	2012	Pharmacophoric analysis and designing of ATP competitive Cyclin dependent Kinase (CDK4) Inhibitors	Rs. 4.0 L
8.	ICMR, Government of India, New Delhi.	2019	2012	Ferrocene conjugated macrocyclic transition metal complexes as photosensitizer for photodynamic therapy	Rs.33.97 L
9.	UGC, Govt. of India	2012	2017	Innovative Course Supported by UGC, Govt. of India -PG. Diploma in Structural Pharmacogenomics (PGDSP) – Deputy Coordinator	Rs.54 L
10.	Department of Science & Technology (DST )	2017	2017	Fund for Improvement of S&T Infrastructure in Higher Educational Institutions (FIST) and Promotion Of University Research And Scientific Excellence – Member, Phase I	Rs. 64L

#### Other Fund Received as Research Mentor:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	DBT – Bioinformatics and Computational Biology Center (BIC)	2022	2026	Identification of Potent Drug for Life- Threatening Diseases.	Rs.183.8L
2.	DBT-National Network Project (NNP)	2023	2027	National Network Project of Alagappa University, Karaikudi	Rs. 144.56560 L

#### Consultancy Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
-	-	-	-	-	-

**Others:**

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
-	-	-	-	-	-

**Distinctive Achievements / Awards**

- Lady **TATA Memorial Trust Junior scholarship (JRF)** award 2001- 2003.
- Defense Research & Development Organization / Defense Institute of Physiology & Allied Sciences **Senior Research Fellow (SRF)** 2004 -2005.
- **Qualified SLET (State Level Educational Testing)** examination in the year of 1999 conducted by Bharathidasan University, Tiruchirappalli, Tamil Nadu.
- **Best Paper Award** in Pharmaceutical & Medicinal Synthetic Chemistry by The Indian Pharmaceutical Association's Prof. M. L. Khorana Memorial Indian Journal of Pharmaceutical Sciences in the year 2013.
- **Received Best Poster award** in National Conference on Recent Innovations in Biotechnology (18<sup>th</sup> April, 2016) Organized by Department of Biotechnology, Aarupadai Veedu Institute of Technology (AVIT), Kanchipuram, Tamil Nadu.
- Recipient of **Outstanding Reviewer** award for the year of 2016 from the Journal Molecular BioSystems.
- **Best Paper Award** in Pharmaceutical & Medicinal Synthetic Chemistry by The Indian Pharmaceutical Association's Prof. M. L. Khorana Memorial Indian Journal of Pharmaceutical Sciences in the year 2017.
- **Received best poster award** in National Conference on "Recent Trends in Plant Sciences" (01-02, March, 2017), organized by Department of Botany, ST. Xavier's College, Palayamkottai, Tamil Nadu, India.
- Received **Certificate of Excellence in Reviewing** from Journal of Advances in Medicine and Medical Research in the year 2018.
- Recipient of Alagappa University prestigious research award "**Alagappa Excellence Research Award for the year of 2018**".

- **Received Special prize for poster** in International Conference on Cancer Inferno and Its Prevention Strategies-ICCIPS-2019 on 22<sup>nd</sup> February 2019 at Periyar EVR College, Trichy.
- Recipient of “**Dr. APJ Abdul Kalam Lifetime Achievement National Award for the year of 2021**” from National Institute for Socio Economic Development, Bengaluru.
- Recipient of Alagappa University prestigious research award “**Promising Researcher Award for the year of 2022**”
- Recipient of **C V Raman Prize for the year of 2022** from Institute of Researchers, Kerala.
- Recipient of **Research Excellence award for the year of 2022** from Institute of Researchers, Kerala
- Appointed as a **Research Fellow in INTI International University**, Malaysia. (01.09.2023 to 31.12.2025).
- **Reviewer** in Science and Engineering Research Board (**SERB**), Department of Science and Technology (DST), India.

### Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

<b>Position</b>	<b>Programme</b>	<b>Duration</b>	<b>Institution</b>
Convener of the Organizing committee	30 <sup>th</sup> , Convocation	20.12.2017	Alagappa University Karaikudi
Convener of the Organizing committee	31 <sup>st</sup> , Convocation\	1.11.2018	Alagappa University Karaikudi
Convener of the Organizing committee	32 <sup>nd</sup> , Convocation	1.10.2019	Alagappa University Karaikudi
Convener/ Editor	10 <sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design”	20.02.2018 to 23.02.2018	Alagappa University Karaikudi

	[SBCADD'2018]		
Organizer/ Editor	11 <sup>th</sup> National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2019]	12.03.2019 to 15.03.2019	Alagappa University Karaikudi
Organizer/ Editor	International Conference of Structural Bioinformatics and Drug Design- [ICSBCADD-2019 ]	11.12.2019 to 13.12.2019	Alagappa University Karaikudi
Organizer/ Editor	International Conference of Structural Bioinformatics and Drug Design- [ICSBCADD-2022]	21.11.2022 to 25.11.2022	Alagappa University Karaikudi

### Events Participated

Number of Conferences / Seminars / Workshops: 22

### Overseas Exposure / Visits

- Visit1: **NIL**

## Membership

### Professional Bodies

1. Life Member, Indian Science Congress Association, Kolkata.
2. Life Member, Indian Society of Human Genetics.
3. Life Member cum Treasurer, Bioinformatics Drug Discovery Society (BIDDS).
4. Life Member, Institute of Researchers, Wayanad, Kerala.

### Advisory Board

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2022-2025	Board of Studies, Department of Microbiology and Clinical Lab Technology, Alagappa University, Karaikudi.	Chairperson,
2019 to Till date	Board of studies department of Bioinformatics	Member
2016 to Till date	Institute Ethics Committee (Human Studies).	Member
2019 to Till date	Institutional BioSafety Committee (IBSC)	Member
2008-Till date	Doctoral Research Committee	Member
2017-Till date	Department Library Incharge	Member

### Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2015 to 2016	Evaluation Board, Bioinformatics, Annamalai University, Chidambaram.	Chairman

## Ph.D. Thesis Guided

1. No. of PhD Thesis evaluated : 7
2. No. of PhD Public Viva Voce Examination conducted : 7

<b>S. No</b>	<b>Name of the Scholar</b>	<b>Title of the Thesis</b>	<b>Year of Completion</b>
1	Dr. Kh. Dhanachandra Singh	Pharmacogenomics and computer assisted designing of anti-hypertension lead molecules.	2014
2	Dr. P. Kirubakaran	Computational identification and in vitro validation of novel lead molecules against topk and tankyrase proteins.	2014
3	Dr. Gopinath. K	A study on potential antidiabetic properties of Syzygium densiflorum fruits by in vitro, in vivo and in silico approaches.	2016
4	Dr. S. Nagamani	The Genetic and Molecular Mechanism of Vitamin D Receptor (VDR) in Chronic Kidney Disease (CKD) Pathogenesis.	2016
5	Dr. C. Sathish Kumar	Screening, Isolation and Identification of Potent Anti-Snake venom Molecules from Clematis Gouriana Roxb. Ex Dc.	2016
6	Dr. L. Lakshmanan	Role of RAS and CYP gene polymorphisms in anti-hypertensive treatment: A Pharmacogenomics and Computational study.	2022
7	Dr. J. John Marshal	Pharmacogenomics and Computational studies of VDR, CYP24A1 and Klotho genes among	2023

		Chronic Kidney Disease Patients in Indian Population.	
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### List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Rose, R., <b>Karthikeyan, M.</b> , Anandan, B., & Jayaraman, G. (2007). Myocilin mutations among primary open angle glaucoma patients of Kanyakumari district, South India. <i>Molecular vision</i> , 13, 497	IF: 2.38
2.	Narasimhan, M., Rose, R., <b>Karthikeyan, M.</b> , & Rathinavelu, A. (2007). Detection of HDM2 and VEGF co-expression in cancer cell lines: novel effect of HDM2 antisense treatment on VEGF expression. <i>Life sciences</i> , 81(17-18), 1362-1372.	IF: 2.583
3.	Popish, JS. Levein, MG., <b>Karthikeyan, M.</b> , Ehret M, & Rathinavelu A. (2008). Assessment of ethnicity on Butyrylcholinesterase variant in Alzheimer's patients and normal volunteers. <i>Journal of Pharmacy Practice</i> , Feb 01; 21(1), 58-60.	-
4.	<b>Karthikeyan, M.</b> , Rose, R., Shridevi, V., Anandan, B., Shanmugasundaram, S., Mohan, D., Ramesh, A., & Jayaraman, G. (2009). Core promoter variants (A-20C, T-18C and G-6A) of the angiotensinogen (AGT) gene are not significantly associated with hypertension in patients of Tamilnadu, India. <i>International Journal of Human Genetics</i> , 9(1), 13-19.	-
5.	Singh, K. D., & <b>Muthusamy, K.</b> (2009). In silico genome analysis and drug efficacy test of influenza A virus (H1N1) 2009. <i>Indian journal of microbiology</i> , 49, 358-364.	IF: 0.938
6.	Srinivasan, P., Sudha, A., Hameed, A. S., Kumar, S. P., & <b>Karthikeyan, M.</b> (2011). Screening of medicinal plant compounds against NS5B polymerase of hepatitis C virus (HCV) using molecular docking studies. <i>Journal of Pharmacy Research</i> , 4(1), 136-140.	IF: 1.09
7.	Ramya, S., Gopinath, K., <b>Karthikeyan, M.</b> , Sundarpandian, S. M., Periyathambi, N., Sundarajan, G., & Jayakumararaj, R. (2011). Effect of crude methanol leaf extracts of <i>Andrographis paniculata</i> (burmf) Nees on larvae of <i>Helicoverpa armigera</i> (Hübner). <i>Environ. We Intl. J. Sci. Technol</i> , 6, 21-28.	IF: 2.2
8.	<b>Karthikeyan, M.</b> , Kirubakaran, P, Singh Kh. D., Nagamani, S, Sindhu, S. (2011). Molecular Docking studies of Bitter melon compounds against BRCA1 Protein. <i>Journal of Pharmacy Research</i> , 4 (2): 388-390.	IF: 1.09
9.	Kirubakaran, P., Kothapalli, R., Singh, K. D., Nagamani, S., Arjunan, S., & <b>Muthusamy, K.</b> (2011). In silico studies on marine actinomycetes as potential inhibitors for Glioblastoma multiforme. <i>Bioinformation</i> , 6(3), 100.	IF: 1.41
10.	Singh, K. D., <b>Karthikeyan, M.</b> , Kirubakaran, P., & Nagamani, S. (2011).	IF: 2.033

	Pharmacophore filtering and 3D-QSAR in the discovery of new JAK2 inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 30, 186-197.	
11.	Srinivasan, P., Kumar, S. P., <b>Karthikeyan, M.</b> , Jeyakanthan, J., Jasrai, Y. T., Pandya, H. A., Rawal, RM., & Patel, S. K. (2011). Epitope-based immunoinformatics and molecular docking studies of nucleocapsid protein and ovarian tumor domain of crimean–congo hemorrhagic Fever virus. <i>Frontiers in genetics</i> , 2, 72.	-
12.	Rose, R., Balakrishnan, A., <b>Muthusamy, K.</b> , Arumugam, P., Shanmugam, S., & Gopalswamy, J. (2011). Myocilin mutations among POAG patients from two populations of Tamil Nadu, South India, a comparative analysis. <i>Molecular vision</i> , 17, 3243.	IF: 2.51.
13.	Singh, K. D., Kirubakaran, P., Nagarajan, S., Sakkiah, S., <b>Muthusamy, K.</b> , Velmurgan, D., & Jeyakanthan, J. (2012). Homology modeling, molecular dynamics, e-pharmacophore mapping and docking study of Chikungunya virus nsP2 protease. <i>Journal of molecular modeling</i> , 18, 39-51.	IF: 1.871
14.	Dhanachandra Singh, K., Kirubakaran, P., Manikandaprabhu, S., Nagamani, S., Srinivasan, P., & <b>Karthikeyan, M.</b> (2012). Docking studies of adenosine analogues with NS5 methyltransferase of yellow fever virus. <i>Indian journal of microbiology</i> , 52, 28-34.	IF:0.46
15.	Kirubakaran, P., <b>Muthusamy, K.</b> , Singh, K. H. D., & Nagamani, S. (2012). Ligand-based pharmacophore modeling; atom-based 3D-QSAR analysis and molecular docking studies of phosphoinositide-dependent kinase-1 inhibitors. <i>Indian Journal of Pharmaceutical Sciences</i> , 74(2), 141.	IF: 0.626
16.	Dhanachandra Singh, K., <b>Karthikeyan, M.</b> , Kirubakaran, P., Sathya, V., & Nagamani, S. (2012). Structure-based drug discovery of ApoE4 inhibitors from the plant compounds. <i>Medicinal Chemistry Research</i> , 21, 825-833.	IF: 1.271
17.	Kirubakaran, P., <b>Muthusamy, K.</b> , Dhanachandra Singh, K., & Nagamani, S. (2012). Homology modeling, molecular dynamics, and molecular docking studies of <i>Trichomonas vaginalis</i> carbamate kinase. <i>Medicinal Chemistry Research</i> , 21, 2105-2116.	IF: 1.271
18.	Nagamani, S., Kesavan, C., & <b>Muthusamy, K.</b> (2012). E-Pharmacophore mapping and docking studies on Vitamin D receptor (VDR). <i>Bioinformation</i> , 8(15), 705.	IF: 1.0
19.	Nagamani, S., <b>Muthusamy, K.</b> , Kirubakaran, P., Singh, K. D., & Krishnasamy, G. (2012). Theoretical studies on benzimidazole derivatives as <i>E. coli</i> biotin carboxylase inhibitors. <i>Medicinal Chemistry Research</i> , 21(9), 2169-2180.	IF: 1.271
20.	Kirubakaran, P., <b>Karthikeyan, M.</b> , Singh, K. D., Nagamani, S., & Premkumar, K. (2013). In silico structural and functional analysis of the human TOPK protein by structure modeling and molecular dynamics studies. <i>Journal of molecular modeling</i> , 19, 407-419.	IF: 1.98
21.	Kasinathan, D., Girijakumari, N. R., Marimuthu, P. N., Ramar, M., & <b>Muthusamy, K.</b> (2013). Awareness on type II diabetes and its complication among Sivaganga district population in tamilnadu: A cross section survey. <i>Journal of Advanced Scientific Research</i> , 4(01), 38-42.	-
22.	<b>Muthusamy, K.</b> , Singh, K. D., Chinnasamy, S., Nagamani, S., Krishnasamy, G., Thiagarajan, C., Premkumar, P., & Anusuyadevi, M. (2013). High throughput virtual screening and E-pharmacophore filtering in the discovery	IF: 0.662



	of new BACE-1 inhibitors. <i>Interdisciplinary Sciences: Computational Life Sciences</i> , 5, 119-126.	
23.	Kirubakaran, P., <b>Muthusamy, K.</b> , Dhanachandra Singh, K., & Nagamani, S. (2013). Pharmacophore modeling, 3D-QSAR, and molecular docking study on naphthyridine derivatives as inhibitors of 3-phosphoinositide-dependent protein kinase-1. <i>Medicinal Chemistry Research</i> , 22(8), 3812-3822.	IF: 1.61
24.	Kirubakaran, P., & <b>Karthikeyan, M.</b> (2013). Pharmacophore modeling, 3D-QSAR and DFT studies of IWR small-molecule inhibitors of Wnt response. <i>Journal of Receptors and Signal Transduction</i> , 33(5), 276-285.	IF: 1.63
25.	Singh, K. D., & <b>Muthusamy, K.</b> (2013). Molecular modeling, quantum polarized ligand docking and structure-based 3D-QSAR analysis of the imidazole series as dual AT1 and ETA receptor antagonists. <i>Acta Pharmacologica Sinica</i> , 34(12), 1592-1606.	IF: 2.496
26.	<b>Karthikeyan, M.</b> , Shridevi, V., Rose, R., Anandan, B., Singh, K. D., Shanmugasundaram, S., Mohan, D., Ramesh, A., & Jayaraman, G. (2013). Angiotensin gene polymorphisms (T174M and M235T) are significantly associated with the hypertensive patients of Tamil Nadu, South India. <i>International Journal of Human Genetics</i> , 13(4), 201-207.	IF:0.382
27.	Kirubakaran, P., Kothandan, G., Cho, S. J., & <b>Muthusamy, K.</b> (2014). Molecular insights on TNKS1/TNKS2 and inhibitor-IWR1 interactions. <i>Molecular BioSystems</i> , 10(2), 281-293	. IF: 3.35
28.	Dhanachandra Singh, K., Jajodia, A., Kaur, H., Kukreti, R., & <b>Karthikeyan, M.</b> (2014). Gender specific association of RAS gene polymorphism with essential hypertension: a case-control study. <i>BioMed Research International</i> , 2014.	IF: 2.706
29.	Singh, K. D., Naveena, Q., & <b>Karthikeyan, M.</b> (2014). Jak2 inhibitor—a jackpot for pharmaceutical industries: a comprehensive computational method in the discovery of new potent Jak2 inhibitors. <i>Molecular BioSystems</i> , 10(8), 2146-2159.	IF:3.35
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### Resource persons in various capacities

National Conferences	:	22
International Conferences	:	3
Invited Lectures	:	19



Date : 01.03.2024  
Place : Karaikudi.

Dr. M. KARTHIKEYAN  
ASSOCIATE PROFESSOR