



DR. M. KARTHIKEYAN
ASSISTANT PROFESSOR

Contact

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

Year of Passing	Degree	University/Institute
2006	Ph.D Biomedical Genetics	University of Madras
1999	M.Sc Biomedical Genetics	University of Madras
1996	B.Sc. Zoology	Jamal Mohamed College, Trichy
1999	P.G.D.C.A	Bishop Heber College, Trichy

Teaching Experience: 13 Years

✓ **Assistant Professor (18.08.2008 – till date)**

Dept of Bioinformatics, Alagappa University, Karaikudi -630003, Tamilnadu, India.

Key responsibility:

Teaching: M.Sc, M.Phil, PG. Diploma in Structural Pharmacogenomics (PGDSP)

Deputy-coordinator, PG. Diploma in Structural Pharmacogenomics (PGDSP) – A UGC

Innovative programme, Research supervisor: PhD, MPhil, PGDSP & MSc students.

Principle Investigator: 2 Major projects (UGC, CSIR) & 1 Minor Project (AURF)

Completed and ICMR -Ongoing. Member, Curriculum design and Question paper setting for M.Sc, M.Phil, Ph.D (Bioinformatics)

✓ **Lecturer (July 05 –February 07)**

Department of Biotechnology, Vels College of Science, Pallavaram, Chennai- 600117, Tamilnadu, India.

Key Responsibilities: Teaching at PG and UG level and Research

Research Experience: 21 Years

✓ **Scientist in- charge (March 08 – August 08)**

Nichi-In center for regenerative Medicine, Vadapalani, Chennai-600026, Tamil Nadu, India

Key Responsibilities: Co ordination of Research and Scientific activities.

✓ **Post doctoral Research Associate and Instructor (March 07 – August 07)**

College of Pharmacy, Nova South-eastern University, Florida, USA-33328

Key Responsibilities: Various Research activities like, Train the graduate students, writing the grants, manuscripts, *in vitro* validation of cancer drugs and Maintain the various cancer cell lines, etc.

✓ **DRDO/DIPAS Senior research fellow (July 2003- July 2005)**

Department of Genetics, University of Madras, Taramani, Chennai-600113, Tamilnadu, India

Key Responsibilities: Cloning and expression of Heat Shock Proteins

✓ **Lady TATA Memorial Trust - Junior Research fellow (July 2001- July 2003)**

Department of Genetics, University of Madras, Taramani, Chennai-600113, Tamilnadu, India

Key Responsibilities: Screening of AGT Gene polymorphisms in Tamil Nadu Hypertensive patients.

Additional Responsibilities

1. **Deputy-coordinator**, PG. Diploma in Structural Pharmacogenomics (PGDSP) – A UGC Innovative programme.
2. **Member (Basic Medical Scientist – Internal)**, Institute Ethics Committee (Human Studies).
3. **Assistant Director in Centre for International Relations** of Alagappa University, Karaikudi, India.
4. **Deputy Coordinator, Centre for Incubation and Technology Transfer**, Alagappa University, Karaikudi, India

Areas of Research

Dr. M. Karthikeyan and his team focused on Pharmacogenomics and Computational Biology. He concentrates on hypertension, diabetes, cardiovascular diseases, renal failure, cancer, snake bite and so on. 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 Aided 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.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	05	02
	M.Phil.	07	--
Project	PG	31	--
	UG / Others	03	--

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
90	33	05	80	2

Cumulative Impact Factor (as per JCR) :	181.026
h-index	: 15
i10 index	: 28
Total Citations	: 871

Funded Research Projects

Completed Projects

S. No	Funding Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC, Government of India, New Delhi.	2009	2010	Genetic polymorphisms of the Essential Hypertension associated genes in random subjects of the South Indian general population	13.31
2	AURF, Alagappa University, Karaikudi.	2009	2009	Molecular and bioinformatics analysis of Breast cancer gene polymorphisms (BRCA1 and BRAC2) in Tamilnadu population	0.64

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	15.98
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/ β catenin.....Colorectal cancer.	30.48
5	RUSA-2.0, Government of India, New Delh	2018	2021	Translational Health Research for Human, Animal and plant Systems	35.00

Consultancy Projects

S. No	Funding Agency	Period	Project Title	Budget (Rs. In lakhs)
1	University/ Institution	2012	Computer Aided Drug Design	0.30
2	ICMR, Government of India, New Delhi	2019-2022	Ferrocene conjugated macrocyclic transition metal complexes as photosensitizer for photodynamic therapy	33.97
2	TANSCHÉ, Government of Tamilnadu. Rs. 31.88 L	2021-2024	Design and Evaluation of oxazole based novel inhibitors for aquaporins and to study their efficacy on testicular leying cell function in diabetes	31.88

Distinctive Achievements / Awards

1. Lady **TATA Memorial Trust Junior scholarship (JRF)** award 2001- 2003.
2. Defense Research & Development Organization / Defense Institute of Physiology & Allied Sciences **Senior Research Fellow (SRF)** 2004 -2005.
3. **Qualified SLET (State Level Educational Testing)** examination in the year of 1999 conducted by Bharathidasan University, Tiruchirappalli, Tamil Nadu.
4. **Deputy-coordinator**, PG. Diploma in Structural Pharmacogenomics (PGDSP) – A UGC Innovative programme
5. **Best Paper Award** in Pharmaceutical & Medicinal Synthetic Chemistry by The Indian Pharmaceutical Association's **Prof. M. L. Khorana Memorial Indian Journal of Pharmaceutical Sciences**
6. **Received Best Poster award in** National Conference On Recent Innovations In Biotechnology (18th April, 2016) Organized by Department of Biotechnology, Aarupadai

Veedu Institute Of Technology (AVIT), Kanchipuram, Tamil Nadu, India for the Poster Entitled “Identification of potential CYP24A1 inhibitors through E-Pharmacophore mapping and Molecular docking and Dynamics study”.

7. **Member (Basic Medical Scientist – Internal)**, Institute Ethics Committee (Human Studies).
8. Recipient of **Outstanding Reviewer award** the year of 2016 from the **Journal Molecular BioSystems** (Royal Society of Chemistry).
9. **Received Best Poster award in** National Conference on “Recent Trends in Plant Sciences” (1-2 March, 2017) Organized by the Department of Botany, ST. Xavier's College, Palayamkottai, Tamil Nadu, India. For the Poster Entitled “Screening of Potent Agonist of VDR and Antagonist of CYP24A1 using *In Silico* Approaches”.
10. Received **Certificate of Excellence in Reviewing** from Journal of Advances in Medicine and Medical Research in the year 2018.
11. Recipient of Alagappa University prestigious research award “**Alagappa Excellence Research Award for the year of 2018**”.
12. Received **Special prize for poster** in International Conference on Cancer Inferno and Its Prevention Strategies-ICCIPS-2019 on 22nd February 2019 at Periyar EVR College, Trichy.
13. Recipient of **Dr. APJ Abdul Kalam Lifetime Achievement National Award** by National Institute for Socio Economic Development, Bangalore on 1st December. 2020.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 17

1. International Colloquium on “Emerging Biotechnologies in Agriculture, Animal Health and productivity - [ICEB'09]” during February, 22nd – 27th, 2009 (Member).
2. National Seminar on “Recent Trends in Molecular Modelling and Drug Design” - [NaSMoLD'09] during March, 18th -19th, 2009 (Member).
3. National Workshop on Molecular Modelling and Structural Bioinformatics in association with Schrodinger, USA . During January, 27th – 29th, 2010 (Member).
4. 3rd National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2010] with Schrodinger during December 20th- 22nd, 2010 (Member).
5. 4th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2012] with Schrodinger during February 20th- 23rd, 2012 (Organizing Secretary).
6. 5th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2013] with Schrodinger. During February 19th- 22nd, 2013 (Member).

7. Hands on Training in Sequence analysis and Molecular modeling at Dept. of Botany, The Standard Fireworks Rajaratnam College for Women, Sivakasi – 626 123 on 15th July, 2013 (Resource Person).
8. 6th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2014] with Schrodinger during February 18th- 21st, 2014 (Member).
9. 7th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2015] with Schrodinger during February 24th- 27th, 2015 (Member).
10. Hands on Training in Essential Bioinformatics tools and Database Development at Dept. of Biotechnology, St. Joseph's College (Autonomous), Tiruchirappalli-02 on 13th July, 2015 (Resource Person).
11. 8th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2016] with Schrodinger during February 16th- 19th, 2016 (Organizing Secretary).
12. International Conference on Recent Trends in Biosciences (7th – 9th April, 2016) Organized by Department of Biosciences, Alagappa University, Karaikudi, Tamil Nadu, India. (Organizing Secretary).
13. 9th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2017] with Schrodinger during February 14th- 17th, 2017 (Member).
14. Special Lecture on “Dementia and Stem Cell therapy” on 16th Wednesday, August 2017 (Organizing Member).
15. 10th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2018] with Schrodinger during February 20th- 23rd, 2018 (Member).
16. 11th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” [SBCADD'2019] with Schrodinger during February 12th- 15th, 2019 (Member).
17. International Conference of Structural Bioinformatics and Drug Design-ICSBCADD-2019 on December 11-13, at Department of Bioinformatics, Alagappa University, Karaikudi, Tamil Nadu, India. (Member)

Events Participated

Conferences / Seminars / Workshops: 20

1. DAE Symposium on “**Recent Advances in genetic Epidemiology and Population monitoring**” organized by Dept. of Genetics, Dr. ALMPGIBMS, University of Madras, Tamil Nadu, India (23rd – 26th, March, 1998).

2. International Symposium on **“Cataract- Molecular Epidemiological Aspects”** organized by Dept. of Genetics, Dr. ALMPGIBMS, University of Madras, Tamil Nadu, India (31st Jan- 1st Feb 2000).
3. Symposium on **“Recent Advances in Molecular Genetics”** organized by Dept. of Genetics, Dr. ALMPGIBMS, University of Madras, Tamil Nadu, India (19th March, 2003).
4. Symposium on **“Genetics: Today and Tomorrow”** organized by Dept. of Genetics, Dr. ALMPGIBMS, and University of Madras, Tamil Nadu, India (15th May, 2004).
5. Seminar on **“Good laboratory practice in life sciences Research”** organized by Dept. of Pharmacology and Environment Toxicology, University of Madras, Tamil Nadu, India (6-7th January 2004).
6. Indo-Australian Conference in **“Biotechnology in Medicine”** organized by Indian Institute of Sciences, Australian govt., KMC Manipal and CMC Vellore, Tamil Nadu, India (Feb 9-11th, 2004).
7. Indo-UK workshop on **“Ethics in medical research”** organized by university of Madras and SCIEH, Glasgow, UK (11th Oct 2004).
8. Indo-UK workshop on **“Designing of Doctoral Research for Ph.D scholars”** organized by dept. of Microbiology, Dr. ALMPGIBMS, University of Madras, Taramani, Chennai, Tamil Nadu, India (23rd March 2005).
9. 2nd National conference on **“Multifunctional Nanomaterials and Nanocomposites”** organized by Department of Nanoscience and Technology, Bharathiar University, Coimbatore , Tamil Nadu, India. (Mar 24th – 25th, 2011)
10. **“Workshop on innovative and creative approaches for sustainable development of India”** Organized by Industry and Consultancy Cell, Alagappa University, Karaikudi-630 003 (30th April, 2013).
11. **“International Seminar on “Recent Trends in Aquatic Animal Biotechnology (RTAAB’ 2013)”** Organized by Department of Animal Health & Management, Alagappa University, Karaikudi-630 004 (Oct 21-22, 2013).
12. **“Workshop on Metrohm Autolab Electrochemical Instruments for Biosensors, Energy and Corrosion Applications”** Organized by Bioelectronics and Biosensors, Alagappa University, Karaikudi-630 003 (16th February, 2015).
13. One day conference on **“Exploring Commercialization of Biosensors in India”** Organized by Bioelectronics and Biosensors, Alagappa University, Karaikudi-630 003 (14th March, 2017).
14. International Conference on **“Frontier Areas in Chemical Technologies (FACTs)”** organized by Department of Industrial Chemistry, Alagappa University, Karaikudi-630 003 (July 6-8, 2017).
15. **“World Animal Day Celebration”** Organized by Department of Animal Health and Management, Alagappa University, Karaikudi-630 003 (October 4, 2017).
16. 1st Two days National Workshop on **“Indigenous Cow Management and their Value Added Products”** Organized by Department of Animal Health and Management, Alagappa University, Karaikudi-630 003 (18th – 19th December, 2018).

17. **“3rd International Conference on Recent Trends in Microbiology (RTM-2019)”**
Organized by Department of Microbiology, Alagappa University, Karaikudi-630 003 (24th – 25th January, 2019).
18. Three days Workshop on **“Research Methods and LaTeX”** Organized by Technical and Academic Writing Centre, Alagappa University, Karaikudi-630 003 (24th – 26th June, 2019).
19. A two day National Conference on **“Recent Trends in Drug Discovery, Development and Targeted Delivery System for Cancer - 2019”**. Organized by P.G & Research Department of Biochemistry at J.J College, Pudukkottai (26th -27th September, 2019).
20. **International Conference of Structural Bioinformatics and Drug Design- ICSBCADD-2019** on December 11-13, at Department of Bioinformatics, Alagappa University, Karaikudi, Tamil Nadu, India.

Other Training Programs

1. 67th Orientation Program at Academic Staff Colleges (ASC), Bharathidasan University, Tiruchirappalli (09.11.2010- 06.12.2010), Tamil Nadu, India.
2. Refresher Course in Life Sciences at UGC Academic Staff Colleges (ASC), Madurai Kamaraj University, Madurai (16-11-2012 to 06-12-2012), Tamil Nadu, India.
3. Faculty Development Program on Accreditation Quality Enhancement at Alagappa University, Karaikudi (06.01.2017 – 12.01.2017), Tamil Nadu, India.
4. Refresher Course in Material Sciences at UGC Human Resource Development Centre Academic, Bharathidasan University, Tiruchirappalli (02.03.2018- 22.03.2018), Tamil Nadu, India.
5. Participated in the online AICTE recognized faculty development programme on Nanomaterials and Devices organized by Applied Science Department NITTR, Chandigarh (27.04.2020 – 01.05.2020), India.
6. Participated in the online AICTE recognized faculty development programme on Quantum and Energy: Potential & Applications organized by Applied Science Department NITTR, Chandigarh (04.05.2020 – 08.05.2020), India.
7. Certification of Appreciation for the successful completion of online quiz on “COVID-19 Awareness Programme” organized by NSS Unit and Basic Engineering Department of Alagappa Government Polytechnic college, Karaikudi (May 2020) , Tamil Nadu, India.
8. Participated in the TWO WEEKS ONLINE CAPACITY BUILDING PROGRAMME FOR FACULTY MEMBER AND RESEARCH SCHOLARS organized by Alagappa university, Karaikudi, (12.06.2020 – 23.06.2020), Tamil Nadu, India, under the sponsorship of UGC STRIDE Component -1 scheme.

- Participated in the online AICTE recognized faculty development programme on Refresher course on Application of Nanoscience in Modern Day Research and Technology organized by Applied Science Department NITTR, Chandigarh (19.06.2020 – 02.07.2020), India.

Overseas Exposure / Visits

Countries	Duration	Month & Year	Purpose of Visit
Florida, USA	6 Months	March – August 2007	Post doctoral Research
Singapore	3 Days	February 2011	Annual International Conference on Bioinformatics and Computational Biology (BICB 2011)

Membership in

Professional Bodies

- Life Member: Indian Science Congress Association, Kolkata.
- Life Member: Indian Society of Human Genetics.
- Life Member cum Treasurer: Bioinformatics and Drug Discovery Society (BIDDS).

Editorial Board Member

- Journal of Orthopaedics.
- International Journal of Pharmaceutical Sciences.
- Genetic Disease Study.
- Current Chinese Science

Academic Bodies (such as Board of Studies etc.,)

- Chairman, Evaluation Board, Department of Bioinformatics, Annamalai University, Chidambaram, Tamil Nadu 608002.
- Question Paper Setter & Member, UG & PG Examination evaluation board, Alagappa University, Madurai Kamaraj University, Bharathidasan University, Bharathiar University, Annamalai University, Chettinadu University, Thiruvalluvar University, Vellore Institute of Technology, Anna University, Periyar University.

Reviewer to the Journals

Acta Pharmacologica Sinica; PLOS one; Journal of American Chemical Society, Journal of Human Hypertension, FEBS OpenBio; BMC Research Notes; Current Drug Targets, RSC Advance; Current Pharmaceutical Design; Molecular Simulations; Molecular Omics; Cellular Biochemistry; Medicinal Chemistry Research; Physiological review; Archives of Clinical Review; Combinatorial Chemistry & High Throughput Screening; African Journal of Biotechnology; Journal of Biomolecular Structure and Dynamics; Gene Reports; Indian Journal of Human Genetics; Indian Journal of Medical Research, etc.,

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 21

1. **Population genetics and genetics linkage** at Department of Biotechnology, Cauvery College for Women, Tiruchirappalli-620 018, Tamil Nadu, India (14th December, 2006).
2. **Applications of Stem Cells in Animal Health** in National seminar on “Application of genomics and bioinformatics in Animal Health and Management” Organised by Department of Animal health and management, Alagappa University, Karaikudi, Tamil Nadu, India (25-26 March, 2009).
3. **Bioinformatics & Drug Designing in Post Genomic Era** at Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu, India (22nd February, 2011).
4. **Computational Designing and Discovery of Anti-Alzheimer's Drug** in National Conference on “Evolutionary Trends in Biochemistry and Molecular Biology - BIOTRENDZ-2012” & “1st Annual Seminar on Alzheimer's Disease - ALZINFO-2012” Organised by Department of biochemistry, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India (20th & 21st September, 2012).
5. **Computer Aided Drug Discovery And Development** at Dept. of Microbiology, Srimad Andavan Arts and Science College, Tiruchirappalli, Tamil Nadu, India (October 09, 2012).
6. **Sequence analysis and database management tools** at Dept. of Biochemistry, Dhanalakshmi Srinivasan College of Arts and Science for Women, Thuraiyur Road, Perambalur, Tamil Nadu, India (20th December, 2012).
7. **Introduction to Bioinformatics & Tools and Techniques in Bioinformatics** at Dept. of Botany, The Standard Fireworks Rajaratnam College for Women, Sivakasi – 626 123, Tamil Nadu, India (15th July, 2013).
8. **Essential bioinformatics tools for biologists** in UGC sponsored one day seminar on “Technical Innovation in Zoology” Organized by Research Department of Zoology, Seethalakshmi Ramaswami College, Tiruchirappalli - 620 002, Tamil Nadu, India (18th October, 2013).
9. **Computational Designing of dual ETA and AT1 Receptor as antihypertensive lead molecules: a Pharmacogenomics based future prospective for Hypertension treatment** in UGC – SAP sponsored National Seminar on “Molecular Genetics and Human Welfare” in memory of Prof. G. Jayaraman, Organized by Department of Genetics, University of Madras, Tamil Nadu, India (21st Feb, 2014).

10. **Essentials of Bioinformatics** in the National workshop on “Essentials of Bioinformatics” organized by Dept. of Biotechnology, Dr. Umayal Ramanathan College for Women, Karaikudi, Tamil Nadu, India (4th & 5th Aug, 2014).
11. **Bioinformatics: a new window for plant drug discovery** in the SOFT SKILLTRAINING PROGRAM sponsored by TANSCHÉ in the Dept. of Botany, Govt. Arts College, Mellur, Tamil Nadu, India (26th Aug, 2014).
12. **Computational Models Simplifies the Animal Experiments** in the Zoology Association Valedictory and Farewell Function, organized by Dept. of Zoology, Govt. Arts College, Karaikudi, Tamil Nadu, India (07th April, 2015).
13. **Essential Bioinformatics tools and Database Development** at Dept. of Biotechnology, St. Joseph's College (Autonomous), Tiruchirappalli-02 (13th July, 2015).
14. **Small molecule Inhibitors for cancer therapy** at Dept. of Biochemistry, JJ College (Autonomous), Pudukottai, Tamil Nadu, India (07th February, 2017).
15. **Indian Herb for the Treatment Snakebite: A In Silico Insights** at National Conference on “Recent Trends in Plant Sciences” organized by Department of Botany, Palayamkottai on 1st – 2nd March, 2017.
16. **Bioinformatics: An overview** at NCoE(MHRD)-Winter Schools, Thiagarajar College, Madurai on 24.11.2017.
17. **Bioinformatics Applications in Forensic Science** in the “Workshop on Forensic Bioinformatics” organized by NCoE (MHRD), Thiagarajar College, Madurai on 08.09.2018.
18. Pharmacoinformatics in the “**Workshop on Pharmacoinformatics**” organized by NCoE (MHRD), Thiagarajar College, Madurai on 02.12.2018.
19. **Computational Investigation on Cross-talking Cancer Signaling of Tankyrase, Ring Finger 146 and Axin Complex** at E-Learning Program on BIOINFORMATICS AS CARTOGRAPHIC TOOL IN DRUG DISCOVERY, Karaikudi on 30.05.2020
20. **In Silico Prediction of Immunodominant Antigenic Region and Potential Protective Epitopes for Dengue Vaccination and Computational Approaches on Drug Discovery** at Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida on 27.10.2020
21. **Computational Cross-talking mechanism decodes future cancer medication and promotes new generation of drug designing** at Manipal University, Dubai on 20.06.2021

Others

1. No. of PhD Thesis evaluated : 06
2. No. of PhD Public Viva Voce Examination conducted : 06
3. Sequences submitted in GenBank : 26
4. Database Developed : 02
5. Number Of Compounds Submitted to Pubchem: 05

Research Publications

1. Rose R, **Karthikeyan M**, Anandan B, Jayaraman G. Myocilin mutation among primary open angle glaucoma patients of kanyakumari district, South India. *Molecular Vision*, 2007 Apr 2; 13:497-503. **PMID: 17417611 (IF (2006): 2.38)**.

2. Narasimhan M, Rose R, **Karthikeyan M**, Rathinavelu A. Detection of HDM2 and VEGF co- expression in cancer cell lines: novel effect of HDM2 antisense treatment on VEGF expression. *Life Sciences*, 2007 Oct 13; 81 (17-18):1362-72. **PMID: 17931661, DOI: 10.1016/j.lfs.2007.08.029 (IF (2006): 2.583).**
3. Popish JS, Levein MG, **Karthikeyan M**, Ehret M, Rathinavelu A. Assessment of ethnicity on Butyrylcholinesterase variant in Alzheimer's patients and normal volunteers. *Journal of Pharmacy Practice*, 2008 Feb 01; 21(1), 58-60.
4. **Karthikeyan M**, Rose R, Shridevi V, Anandan B, Shanmugasundaram S, Mohan D, Ramesh A, Jayaraman G. 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. *International Journal of Human Genetics*, 2009 Mar; 9(1): 13-19.
5. Singh KhD, **Karthikeyan M***. *In silico* genome analysis and drug efficacy test of influenza A virus (H1N1) 2009. *Indian Journal of Microbiology*, 2009 Dec; 49(4): 358-64. **PMID: 23100798, DOI: 10.1007/s12088-009-0063-4 (IF (2010) : 0.938).**
6. Srinivasan P, Sudha A, Shahul Hameed A, Prasanth Kumar S, **Karthikeyan M**. Screening of medicinal plant compounds against NS5B polymerase of hepatitis C virus (HCV) using molecular docking studies. *Journal of Pharmacy Research*, 2011 Jan; 4(1): 136-140. **(IF (2010) : 1.09).**
7. Ramya S, Gopinath K, **Karthikeyan M**, Sundarpandian SM, Periyathambi N, Sundarajan G, Jayakumararaj R. Effect of Crude Methanol Leaf Extracts of *Andrographis paniculata* (Burm.f) Nees on Larvae of *Helicoverpa armigera* (Hübner). *Environment & We an International Journal of Science & Technology*, 2011 Jan; 6; 19-26. **(IF (2010) : 2.2).**
8. **Karthikeyan M***, Kirubakaran P, Singh KhD, Nagamani S, Sindhu S. Molecular Docking studies of Bitter melon compounds against BRCA1 Protein. *Journal of Pharmacy Research*, 2011 Feb; 4 (2): 388-390. **(IF (2010) : 1.09).**
9. Kirubakaran P, Roopa K, Singh KhD, Nagamani S, Arjunan S, **Karthikeyan M***. *In silico* studies on marine actinomycetes as potential inhibitors for Glioblastoma multiforme. *Bioinformation*, 2011 Apr 22; 6(3): 100-106. **PMID: 21584184 (IF (2010) : 1.41).**
10. Singh KhD, **Karthikeyan M***, Kirubakaran P, Nagamani S. Pharmacophore filtering and 3D-QSAR in the discovery of new JAK2 inhibitors. *Journal of Molecular Graphics and Modelling*, 2011 Sep; 30:186-97. **PMID: 21831680, DOI: 10.1016/j.jmgs.2011.07.004 (IF (2010) : 2.033).**
11. Srinivasan P, Kumar SP, **Karthikeyan M**, Jeyakanthan J, Jasrai YT, Pandya HA, Rawal RM, Patel SK. Epitope-based immunoinformatics and molecular docking studies of Nucleocapsid protein (NP) and Ovarian Tumor (OTU) domain of Crimean-Congo haemorrhagic fever virus (CCHFV). *Frontiers in Genetics*, 2011 Nov 2; 2(72): 1-9. **PMID: 21831680, DOI: 10.3389/fgene.2011.00072.**

12. Rose R, Balakrishnan A, **Karthikeyan M**, Arumugam P, Shanmugam S, Gopalswamy J. Myocilin mutations among POAG patients from two populations of Tamil Nadu, South India, a comparative analysis. *Molecular Vision*, 2011 Dec; 17:3243-53. **PMID: 22194650 (IF (2010) : 2.51).**
13. Singh KhD, Kirubakaran P, Nagarajan S, Sakkiyah S, **Karthikeyan M**, Velmurgan D, Jeyakanthan J. Homology Modeling, Molecular Dynamics, e-Pharmacophore mapping and Docking Study of Chikungunya Virus nsP2 Protease. *Journal of molecular modeling*, 2012 Jan; 18(1):39-51. **PMID: 21445710 (IF (2011) : 1.871)**
14. Singh KhD, Kirubakaran P, Manikandaprabhu S, Nagamani S, Srinivasan P, **Karthikeyan M***. Docking studies of adenosine analogues with NS5 methyltransferase of Yellow Fever Virus. *Indian Journal of Microbiology*, 2012 Mar; 52(1): 28-34. **PMID:23449064, DOI: 10.1007/s12088-011-0201-7 (IF (2011) : 0.46)**
15. Kirubakaran P, **Karthikeyan M***, Singh KhD, Nagamani S. Ligand based pharmacophore modeling; Atom based 3D-QSAR analysis and Molecular docking studies of Phosphoinositide-dependent kinase-1 inhibitors. *Indian Journal of Pharmaceutical Sciences*, 2012 Mar; 74(2):141-51. **PMID: 23325995, DOI: 10.4103/0250-474X.103846 (IF (2011) : 0.626)**
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