

Dr.M.Jayalakshmi

Assistant Professor



Department of Immunology
School of Biological Sciences

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Educational Qualifications :M.Sc,Ph.D

Professional Experience : 12 years

FIELD OF SPECIALIZATION

- Immunogenetics
- Immunology of Infectious diseases and Cancer
- Immunology of autoimmune diseases

RESEARCH SPECIALIZATION

- Invertebrate Immunology
- Immunogenetics
- Next generation Sequencing

Research Supervision:

Program	Completed	Ongoing
Ph.D	4	4
M.Phil	3	-

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1	Madurai Kamaraj University	Assistant Professor	18.11.2005	Till date	12 years and 3 months

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Dr.Raja Rajalingam	University of California, San Francisco	Mentor , Collaborator ,UGC-Raman Fellowship	4 Papers (Human Immunology)

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1	UGC-MRP	UGC	14 Lakhs	2011-2014
2	TNSTSC-STP	TNSTSC	2.75 Lakhs	2012-2014
3	Raman Post doctoral Fellowship	UGC	Rs.25,13,155/ -	2016-2017

ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
	-			

HONORS/AWARDS/RECOGNITIONS

- Innovative Teacher Award Madurai Kamaraj University-2010
- Raman Post Doctoral Research Fellow -2016

PUBLICATIONS

1. Poomarimuthu, M., Elango, S., Soundrapandian, S., & MARIAKUTTIKAN JAYALAKSHMI. (2017). HLA-G 3' UTR gene polymorphisms and rheumatic heart disease: a familial study among South Indian population. *Pediatric Rheumatology*, 15(1), 10. doi: 10.1186/s12969-017-0140-x
2. KIR: HLA association with clinical manifestations of HBV infection in Madurai, South India. Narayanan Kalyanaraman, Bharathi Thayumanavan, MARIAKUTTIKAN JAYALAKSHMI. *J.Genet.* 2016Mar;95(1):13-9. <https://www.ncbi.nlm.nih.gov/pubmed/27019428>

3. Predominance of B haplotype associated KIR genes in Tamil Speaking Dravidians. Maruthamuthu Stalinraja, MARIAKUTTIKAN JAYALAKSHMI. *Hum Immunol.* 2015 May;76(5):344-7. <http://www.ncbi.nlm.nih.gov/pubmed/25842054>
4. Population differentiation of Southern Indian Male Lineages Correlates with Agricultural Expansions Predating the Caste System. GaneshPrasad ArunKumar, David F Soria-Hernanz, Valampuri John Kavitha, Varatharajan Santhakumari Arun, Adhikarla Syama, Kumaran Samy Ashokan, Kavandanpatti Thangaraj Gandhirajan, Koothapuli Vijayakumar, Muthuswamy Narayanan, MARIAKUTTIKAN JAYALAKSHMI, Janet S Ziegler, Ajay K Royyuru, Laxmi Parida, R Spencer Wells, Colin Renfrew, Theodore G. Schurr, Chris Tyler Smith, Daniel E Platt, Ramasamy Pitchappan and The Genographic Consortium *PLOS ONE* on November 28, 2012 :7:11 e50269 <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0050269>

Papers published as abstracts

5. Protective effect of KIR3DS1 in asymptomatic HIV-1 seroconverters towards AIDS. M Stalinraja , N Kalyanaraman , P Leishman , M Suresh , MARIAKUTTIKAN JAYALAKSHMI. *BMC Infectious Diseases* 2012, 12 (Suppl 1):P69 doi:10.1186/1471-2334-12-S1-P69 <http://www.biomedcentral.com/1471-2334/12/S1/P69>
6. Protective role of Mannose binding Lectin (MBL2) promoter haplotypes on TB infection in South Indian HIV-1 patients. Kalaimani Pandian, Stalinraja Maruthamuthu, Suresh Madasamy and JAYALAKSHMI MARIAKUTTIKAN. *BMC Infectious Diseases* 2014, 14(Suppl 3):P37. <http://www.biomedcentral.com/1471-2334/14/S3/P37>
7. Homozygous KIR2DL3 confers susceptibility to tuberculosis infection in HIV seropositive individuals. Stalinraja Maruthamuthu, Suresh Madasamy and JAYALAKSHMI MARIAKUTTIKAN. *BMC Infectious Diseases* 2014, 14(Suppl 3):P67 <http://www.biomedcentral.com/1471-2334/14/S3/P67>
8. Predominance of HBV genotype D in southern part of India. Kalyanaraman Narayanan, L Thayumanavan and JAYALAKSHMI MARIAKUTTIKAN. *BMC Infectious Diseases* 2014, 14(Suppl 3):P22 <http://www.biomedcentral.com/1471-2334/14/S3/P22>
9. Maruthamuthu Stalinraja, Madasamy Suresh, Manoharan Mythreyee, Raja Rajalingam and MARIAKUTTIKAN JAYALAKSHMI Centromeric BB KIR genotypes that are lacking KIR2DL3 are associated with HIV seropositive individuals of long term non progressor to AIDS . *Human Immunology* 78(2017) 145. https://ac.els-cdn.com/S019888591730277X/1-s2.0-S019888591730277X-main.pdf?_tid=56b268fa-db06-11e7-9473-00000aab0f6b&acdnat=1512620773_d737498a7625835d61605ef8c60980d1
10. Poomariuthu Maheshkumar, Elango Sivakumar, Soundarapandian Sambath, Raja Rajalingam and MARIAKUTTIKAN JAYALAKSHMI . KIR genotypes in severity of rheumatic heart disease among South Indian population. *Human Immunology* 78(2017)155. https://ac.els-cdn.com/S0198885917302914/1-s2.0-S0198885917302914-main.pdf?_tid=045ade2e-db07-11e7-913f-00000aab0f26&acdnat=1512621064_640c856c89232b36de20cee48a7ba3dd

11. Nagarajan Gunavathy, Arthur Asirvatham, Ayyappan Chitra, Raja Rajalingam and MARIAKUTTIKAN JAYALAKSHMI. KIR2DL3 protects the development of type 1 diabetes in children under 10 years old in South Indian population. *Human Immunology* 78(2017) 192.https://ac.els-cdn.com/S0198885917303348/1-s2.0-S0198885917303348-main.pdf?_tid=9b8f55e6-db06-11e7-96e6-00000aacb35d&acdnat=1512620889_b5851387c253500100140610fb432589
12. Kadium Sony, Ramakrishnan Revathi , Raja Rajalingam and JAYALAKSHMI MARIAKUTTIKAN.Synergistic role of activating killer cell immunoglobulin-like receptor genes in breast cancer . *Human Immunology* 78(2017) 173.
https://ac.els-cdn.com/S0198885917303117/1-s2.0-S0198885917303117-main.pdf?_tid=99ba9614-db05-11e7-a5f2-00000aab0f6b&acdnat=1512620456_40da39f17cdaa45473369d4d04efd76

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

Sl.No	Date	Name of the Conference	Title
1	Nov 12-15. 2009	33rd International conference of the Australasian & South East Asian Tissue Typing Association	HLA -DR typing and BMT in thalassemia
2	Dec 16-19.2009	36th Annual conference of the Indian Immunology society IMMUNOCON-2009	Stage specific agglutinin in a coleopteran beetle, <i>Oryctes</i>
3	Jan 2-4.2010	Biotechnology Fusion of advanced Research and Teaching Conference	Host parasite relationship in human pulmonary tuberculosis reporter approach
4	Mar 06.2010	Science Day & Aquaterr 41st annual conference	Age, Sex, CD4 count and HLA in HIV disease progression Hospice, Theni, Tamil Nadu

5	Mar 06.2010	Science Day & Aquaterr 41st annual conference	Assessment of host mycobacterial mechanism using My luciferase reporters
6	Mar 06.2010	Science Day & Aquaterr 41st annual conference	Clinical spectrum of chronic liver disorder in hepatitis B v
7	Mar 23.2011	Geno 2011-International Symposium on Current trends in clinical genetics and genomic medicine	KIR Profiles of the populations of Madurai, Tamil Nadu
8	Dec 12-14.2011	International conference on Medical Genetics and Genomics-2011	Immunoregulatory TH2 cytokine-IL10 promoter variants
9	Dec 9-11.2011	International conference on environment, Genes, health and diseases-2011	Pleiotropic TH1 cytokine-IFN gamma (+874T/A) SNP dis
10	Jan 20-22.2012	HIV Science 2012, International symposium on HIV and infectious diseases	Protective effect of KIR3DS1 in asymptomatic HIV-1 ser
11	9-11.11.2012	39th Annual conference of Indian Immunology Society	Evaluation of suitable index based on hematological para thalassemia trait in general population
12	28-Feb-12	43rd Aqua-Terr Annual conference	Molecular Screening of Genotypic Variants among Thala
13	14.12.2012	National Seminar on Quality concerns in higher education Institutions to meet global challenges	A small step to big leap-Indian research scenario
14	23-25.08.2012	12th Tamilnadu Science Congress	Stress and Immunity
15	23-25.08.2012	12th Tamilnadu Science Congress	Organ donation and Transplantation
16	28.02.2013	44th Aqua-terr annual conference on biological sciences	IFN-gamma (+874 T/A) intronic gene polymorphism in So
17	21st to 23rd November	International Conference on Health, Environment and Industrial Biotechnology, BIOSANGAM 2013	CTLA-4 +49A/G as diagnostic marker in Type 1 Diabetes
18	15th to 17th November	40 th Annual Conference of Indian Immunology Society, IMMUNOCON 2013	HLA class II DR associations in Type 1 Diabetes – A So
19	15-17.11.2013	40 th annual conference of Indian Immunology Society	Association of HLA class III (C2, C4, Properdin) and C3 g hepatitis B infection in a South Indian population
20	Nov 15-17, 2013	National conference of Indian Immunology society, Immunocon-2013	Association of Interferon gamma gene polymorphism wit South Indian population
21	28 to 30-11-2013	The IX DAE-BRNS Life sciences symposium on "Current advances in Immunobiology and Cancer	Impact of Killer Cell Immunoglobulin-like Receptor Genes

22	07 & 08-12-2013	The Indian immunology society CME & national seminar on "Immune interface of host-pathogen interactions	Assessment of Non-modifiable Risk Factors Towards De
24	12th to 14th December	41 st Annual Conference of Indian Immunology Society, IMMUNOCON 2014	TNF- α Gene polymorphisms in association with T1DM ri families
25	16th & 17th September	National seminar on "Emerging trends in biological research"	Heterozygosity of CTLA-4 gene confers susceptibility to
26	16th & 17th September	National seminar on "Emerging trends in biological research"	Heterozygosity of CTLA-4 gene confers susceptibility to
27	2/28/2014	The 45 th Aqua-Terr Annual Conference The IMMUNOCON 2014 – 41 st Annual Conference of Indian Immunological Society on "Molecular and Translational Immunology	Molecular Screening and Identification of Beta Thalassem Sequence Based Typing – A Familial Study
28	12 to 14-12-2014	Indian Genetics Congress	Association of HLA-G 14-bp Insertion\Deletion Polymorp
29	4th to 6th March	National seminar on Genomics & Proteomics: A Computational Approach	Inappropriate Immune response among Teenagers: Less
30	6th & 7th March	12 th National level Biological congress on Recent advances in Biological Sciences towards sustainable development (MCAS-BIO-2015)	CTLA-4 Gene Direct DNA sequencing: Implications in Ty
31	9th & 10th January	The 46 th Aqua-Terr Annual Conference	Investigation of KIR-HLA ligand pair in T1D: A South Ind
32	2/28/2015	Indian Genetics Congress 2015	Association of TNF-alpha promoter polymorphisms with Family study
33	04 to 06-03-2015	Global Cancer Summit, International Collaborative Conference	IVS 1-5 (GàC) Mutation Screening Among High Risk Co Towards Prevention of Beta Thalassemia in Tamil Nadu
34	18 to 20-11-2015	National conference on "Recent trends in multidisciplinary research	Synergistic Role of KIR3DS1/L1 and HLA-Bw4 in Breast
35	19th February	National conference on "Recent trends in multidisciplinary research	Evaluation of Autoantibodies in Clinical Diagnosis of Typ
36	19th February	National Conference on Recent Trends in Modern Biology & 47 th Aqua-Terr Annual Conference	Evaluation of Autoantibodies in Clinical Diagnosis of Typ
37	27 & 28-02-2016	National seminar on Basic and Applied Immunology (NSBAI'16)	Immunogenetic Association of CTLA-4 Promoter Polym Cancer
38	2nd & 3rd February		Diagnostic importance of GADA (immunological marker) (immunogenetic marker) in Type 1 diabetes

39	8.03.2016	International Seminar on Challenges in commercialization of viral rapid diagnostics and therapeutics "Anveshan-2015, Students' Research Convention (South Zone), Association of Indian Universities (AIU), New Delhi	Revisiting the diagnostic strategies of HBV
40	21 & 22-03-2016	"Anveshan-2015, National Student Research Convention, Association of Indian Universities (AIU), New Delhi	Delineating the role of NK cells in Breast Cancer
41	28 to 30-03-2016	International Conference on Cancer Biology: Drug Discovery and Novel Therapeutics	Delineating the role of NK cells in Breast Cancer
42	29 & 30-09-2016	Indian Society of Human Genetics Annual Meeting & International Conference	Immunogenetic Association of HLA-G +3142 C>G Polymorphism
43	Mar 3-5, 2016	Conference	Epistatic interaction of KIR 3DS1 and HLA-B BW4 genes in Rheumatic Heart Disease
44	Human Immunology 78 (2017) 192. Doi: 10.1016/j.humimm.2017.06.241	Published in Human Immunology journal	KIR2DL3 protects the development of Type 1 Diabetes in South Indian population
45	27th & 28th February	National conference in Innovations in Modern Biology & 48 th Aqua-Terr Annual Conference	Influence of CTLA-4 and CD28 gene polymorphisms on among South Indian population
46	27 & 28-02-2017	National Conference on Innovations in Modern Biology & 48 th Aqua-Terr Annual Conference	Activating Killer cell Immunoglobulin-like Receptors (aKIRs) in Cancer
48	27 & 28-02-2017	National Conference on Innovations in Modern Biology & 48 th Aqua-Terr Annual Conference	Association of IL-17A G-197A polymorphism with susceptibility to disease in South Indian population
49	11th to 14th September	43 rd Annual meeting of the American Society for Histocompatibility and Immunogenetics	KIR2DL3 protects the development of Type 1 Diabetes in South Indian population
50	11-15.09.2017	American Society for Histocompatibility & Immunogenetics, 43 rd Annual Meeting	KIR genotypes in severity of rheumatic heart disease among South Indian population
51	11-15.09.2017	American Society for Histocompatibility & Immunogenetics, 43 rd Annual Meeting	Centromeric BB KIR genotypes that are lacking KIR2DL3 in seropositive individuals of long term non progressor to AIDS
52	16 & 18-02-2017	IMMUNOCON 2016 - 43 rd Annual Conference of the Indian Immunology Society on "Immunology in Health and Disease"	Association of TNF-alpha with Breast Cancer

53	11 to 15-09-2017	43 rd Annual meeting for American Society for Histocompatibility and Immunogenetics 10th International Conference of Academy of Cardiovascular Sciences-Recent advances in Cardiovascular sciences	Synergistic role of Activating Killer cell Immunoglobulin-Like Receptor 1 (KIR2DL1) in Cancer Clinical spectrum of pediatric rheumatic heart disease in a high endemic population
55	Feb 8-10.2018		
56	Feb27-28.2018	49th Aquaterr Annual conference	Pro-inflammatory cytokine TNF- α promoter (-238G/A&-308G/A) polymorphisms and their interethnic genetic distribution

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Winter School/Workshop	UGC-NRCBS WINTER SCHOOL –Clinical Molecular Immunology	11.10.2011 to 24.10.2011	NRCBS, SBS, MKU	Convener	UGC-NRCBS, SBS, MKU

BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
Genomics and health in the developing world-Indian Subcontinent.GENETICS OF LEPROSY IN INDIA. Genomics and health in the developing world-Indian Subcontinent.	Mariakuttikan Jayalakshmi, N. Kalyanaraman, R.M. Pitchappan	Oxford	2012	http://oxfordmedicine.com/view/10.1093/med/9780195374759.001.0001/med-9780195374759-chapter-96

Viral Replication .Hepatitis B Virus Genetic Diversity: Disease Pathogenesis.	Mariakutti kan Jayalakshmi, N. Kalyanaraman, R.M. Pitchappan .	InTech	2012	http://cdn.itechopen.com/pdfs-wm/43243.pdf

MEMBERSHIP IN PROFESSIONAL BODIES

- Life Member Indian Immunology Society
- Member Board of Studies in Zoology, Biochemistry, Microbiology

ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)
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CONTACT

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