

**Dr.V.Vettriselvi, Ph.D**

Associate professor in Genetics

Department of Human Genetics

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(Deemed to be University)

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**Educational Qualification**

Degree	Year
<b>Ph.D</b> <i>Department of Human Genetics, Sri Ramachandra University, Chennai, India</i>	2008
<b>M. Sc</b> <i>Dept. of Biochemistry, University of Madras, Chennai India</i>	2000

**Awards & Honors**

Aspiring Research Ambassador of Sri Ramachandra University

**Research Experience****Ongoing Projects**

- **Co- Investigator for the ICMR Funded project on** “Influence of Clonal Hematopoiesis of Indeterminate Potential (CHIP) in patients with coronary artery disease” (Ongoing from December 2019)
- **Co- Investigator for the ICMR Funded project on** “Prenatal Exposure to Air Toxics and Adverse Birth Outcome: An Integrated Rural-Urban Mother-Child Prospective Cohort Study” (Ongoing from October 2019)
- **CO-PI/ Mentor for the DBT- BioCARE project on** “Urinary microRNAs as Potential Biomarkers for childhood Nephrotic Syndrome” (Ongoing from July 2019)

**Completed Projects**

- **Principal Investigator for the DBT funded project on** “Study on the role of mir-20, mir-146, mir-196 and mir-499 gene polymorphisms in prostate cancer”(Ongoing from July 2015)

- **Principal Investigator for the DST funded project on** “Study on the role of HLA –C and KIR genes in unexplained recurrent spontaneous abortion”
- **Co- Investigator for the ICMR-NIH Funded Collaborative study** “Genetics Of Type 2 Diabetes In India: A Multicentric Population Specific Family Genetic Study”
- **Co- Principal Investigator in the Centre for Advance Research on Air Pollution an ICMR funded project** “ICMR - CAR– “Role of Gene Environment Interactions in Modifying Associations between Exposure to Air pollution and Birth Weight”
- **Co- Investigator for the DST funded project on IL 1 gene polymorphism in chronic periodontitis** – a causal or casual association
- **Co- Investigator for the ICMR funded project on** A population Pharmacokinetic & pharmacogenetic study on capox therapy on colorectal cancer patients

### **Research Advisor**

### **PhD students:**

Completed - 1

Ongoing – 2 (guide), 5 (co guide)

### **Membership in Committees**

1. Institutional Biosafety committee (SRU)
2. Q cell member

### **Publications (From 2015)**

1. Arunachalam RK, Koshy T, **Venkatesan V**, Dawson GP, Franklin Durairaj Paul S, George P. Mutation Analysis Using Multiplex Ligation-Dependent Probe Amplification in Consanguineous Families in South India with a Child with Profound Hearing Impairment. *Laboratory medicine*. 2019 May 31. PMID:31150550
2. Lavu V, **Vettriselvi V**, Priyanka V, Suresh R, Balaji SK. Methylation Status of Promoter Region of Tumor Necrosis Factor Alpha Gene in Subjects with Healthy Gingiva and Chronic Periodontitis—A Pilot Study. *Biomedical and Pharmacology Journal*. 2019 Jun 25;12(2):639-47.
3. **V Venkatesan**, JC lopez-alvarenga, R Arya, T Koshy et al 1717-P: Burden of Type 2 Diabetes and Its Genetic Determinants in Indian Populations: Findings from the INDIGENIUS Consortium *Diabetes* 68 (Supplement 1), 1717-P
4. T Koshy, R Arya, JC lopez-alvarenga, **V Venkatesan**, et al 1639-P: Effect of Educational Status on Fasting Glucose and HbA1c Concentrations Independent of

- Income and Population Differences in Indian Populations. *Diabetes* 68 (Supplement 1),1639-P
5. Venugopal V, Krishnamoorthy M, **Venkatesan V**, Jaganathan V, Shanmugam R, KanagarajK, Paul SF. Association between occupational heat stress and DNA damage in lymphocytes of workers exposed to hot working environments in a steel industry in Southern India. *Temperature*. 2019 Jul22:1-4.
  6. Jemimah Devanandan H, **Venkatesan V**, Scott JX, Magatha LS, Paul D, Franklin S, Koshy T. MicroRNA 146a Polymorphisms and Expression in Indian Children with Acute Lymphoblastic Leukemia. *Laboratory Medicine*. 2018 Dec 21. doi: 10.1093/labmed/lmy074. PMID:30576465
  7. Ganesh V, **Venkatesan V**, Koshy T, Reddy SN, Muthumuthiah S, Paul SF. Association of estrogen, progesterone and follicle stimulating hormone receptor polymorphisms with in vitro fertilization outcomes. *Systems biology in reproductive medicine*. 2018 Jun 17:1-6. PMID:29916276
  8. Mohanapriya CD, **Vettriselvi V**, Nammalwar BR, et al. Novel variations in NPHS1 gene in children of South Indian population and its association with primary nephrotic syndrome. *J Cell Biochem*. 2018;1-8 PMID:30171708
  9. Damodaran M, Paul SF, **Venkatesan V**. Genetic Polymorphisms in miR-146a, miR-196a2 and miR-125a Genes and its Association in Prostate Cancer. *Pathology & Oncology Research*. 2018 Mar 29:1-8. PMID:29594807
  10. Venugopal V, Krishnamoorthy M, **Venkatesan V**, Jaganathan V, Paul SF. Occupational Heat Stress, DNA damage and Heat Shock Protein-A Review. *Medical Research Archives*. 2018 Jan15;6(1).
  11. Priyanka V, TeenaK, Vamsi L, Suresh RR, Selvaraj R, Samyukta H, **Vettriselvi V**. Differential expression of microRNAs let-7a, miR-125b, miR-100 and miR-21 and interaction with NF-kB pathway genes in periodontitis pathogenesis. *Journal of cellular physiology*. 2017 Dec 11. 10.1002/jcp.26391 PMID:29226952
  12. Venugopal P, Lavu V, Rao SR, **Venkatesan V**. Association of microRNA-125a and microRNA-499a polymorphisms in chronic periodontitis in a sample south Indian population: A hospital-based genetic association study. *Gene*. 2017 doi.org/10.1016/j.gene.2017.07.053 PMID:28732738
  13. Ramu D, **Venkatesan V**, Paul SF, Koshy T. Genetic variation in matrix metalloproteinaseMMP2andMMP9asariskfactorforidiopathicrecurrent

- spontaneous abortions in an Indian population. *Journal of Assisted Reproduction and Genetics*. 2017 May 12:1-5. PMID: 28500450
14. Lavu V, **Venkatesan V**, Venugopal P, Lakkakula BV, Paul SF, PeriaK, Rao SR. Clinical Relevance of Cytokines Gene Polymorphisms and Protein Levels in Gingival Cervical Fluid from Chronic Periodontitis Patients. *Iran J Immunol*. 2017 Mar;14(1):51-58. PMID:28341818
  15. Venugopal P, LavuV, RangaRao S, **Venkatesan V**. Evaluation of a Panel of Single-Nucleotide Polymorphisms in miR-146a and miR-196a2 Genomic Regions in Patients with Chronic Periodontitis. *Genetic Testing and Molecular Biomarkers*. 2017 Apr 1;21(4):228-35.. PMID:28384038
  16. Dhandapani, M.C, **Venkatesan, V**, Rengaswamy, N.B. GowrishankarK, Ekambaram S, Sengutavan P, Perumal V. Report of novel genetic variation in NPHS2 gene associated with idiopathic nephrotic syndrome in South Indian children. *ClinExpNephrol* 2017 21: 134. PMID:27465543
  17. Konda Mohan V, Ganesan N, Gopalakrishnan R, **Venkatesan V**. HLA-DRB1 shared epitope alleles in patients with rheumatoid arthritis: relation to autoantibodies and disease severity in a south Indian population. *International journal of rheumatic diseases*. 2017 Oct 1;20(10):1492-8 PMID:27943654
  18. Venkateswaran N. PerumalVenkatachalam, **VenkatesanVettriselvi**, Solomon FD Paul, Usha Nair , Margaret Chellaraj and Dominic F Joseph. Overexpression of Pro-Inflammatory Cytokines in Myelodysplastic Syndrome (MDS-RA). *J HematolThrombo Dis*. 2016; 4(231):2
  19. Ramalakshmi S, Kavimani S, Srineevas S, **Vettriselvi V**, Bhaskar S. A pharmacogenetic study of capecitabineoxaliplatin therapy in colorectal cancer patients among South Indian population. *EJPMR*, 2016,3(9),520-528
  20. Swaminathan M, Ganesh V, Koshy T, Venugopal P, Paul SF, **Venkatesan V**. A Study on the Role of Estrogen Receptor Gene Polymorphisms in Female Infertility. *Genetic Testing and Molecular Biomarkers*. 2016: 20: 692-695. PMID:27574919
  21. Mohan S, **Venkatesan V**, Paul SF, Koshy T, Perumal V. Genomic imbalance in subjects with idiopathic intellectual disability detected by multiplex ligation-dependent probe amplification. *Journal of Genetics*.2016; 1-6. PMID:27350694

22. Vasanth K M , Nalini G , Rajasekhar G , Vasanthi P , **Vettriselvi V**. Role of HLA-DRB1, PTPN22, CTLA4 Gene Polymorphisms in Susceptibility to Rheumatoid Arthritis. *JMSCR*.2016;04:11539-11548 PMID:27943654
23. MohanS,NampoothiriS,YesodharanD,**VenkatesanV**,KoshyT,PaulSF,Perumal V. Reciprocal Microduplication of the Williams-Beuren Syndrome Chromosome Region in a 9-Year-Old Omani Boy. *Laboratory medicine*. 2016; 47(2):171-5. PMID: 27069036
24. Koshy T, **Venkatesan V**, GowrishankarK, Perumal V, Mohan S, Paul SF. Mutation Analysis of *TBX1* in Children with Conotruncal Heart Anomalies. *The Indian Journal of Pediatrics*. 2015; 4:1- 5. PMID:26634261
25. Lavu V, **Venkatesan V**, Bhaskar LV, Priyanka V, Kumarasamy P, Durairaj Paul SF, Rao SR. Polymorphic Regions in Fcgr and Tnf Alpha Genes and Susceptibility to Chronic Periodontitis in a Cohort From South India. *J Periodontol*. 2016 Aug;87(8):914-22. PMID:27063995
26. Koshy T, **Venkatesan V**, Perumal V, Hegde S, Paul SF. The A1298C methylenetetrahydrofolatereductase gene variant as a susceptibility gene for non-syndromicconotruncal heart defects in an Indian population. *Pediatric cardiology*. 2015;36(7):1470-5 PMID:25981563
27. BalakrishnanK, Sambandam S, Ramaswamy P, Ghosh S, **Venkatesan V**, Thangavel G, et al. establishing integrated rural–urban cohorts to assess air pollution-related health effects in pregnant women, children and adults in Southern India: an overview of objectives, design and methods in the Tamil Nadu Air Pollution and Health Effects (TAPHE) study. *BMJ Open* 2015; 5(6): e008090. PMID:26063570
28. Sowjanya B, **Vettriselvi V**, Suneel. B, Balakrishna D, Nagendrakumar DR, Phani Krishna B, Naidu JN. Vitamin D Receptor fokI Gene Polymorphism InAngiographically Proven Coronary Artery Disease Subjects: Case – Control Study. *British Journal of Medicine & Medical Research* 2015. -612 -617
29. Lavu V, **Venkatesan V**, Bhaskar LV, Priyanka V, Kumarasamy P, Durairaj Paul SF, Rao SR. Polymorphic Regions in the Interleukin-1 Gene and Susceptibility to Chronic Periodontitis: A Genetic Association Study. *Genetic Testing and Molecular Biomarkers*. April 2015, 19(4): 175-181. PMID:25710474

30. Lavu V, **Venkatesan V**, Rao SR. The epigenetic paradigm in periodontitis pathogenesis. *Journal of Indian Society of Periodontology*. 2015;19(2):142-149. PMID:26015662
31. Ketharnathan S, Koshy T, Sethuratnam R, Paul S, **Venkatesan V**. Investigation of NKX2. 5 gene mutations in congenital heart defects in an Indian population. *Genetic testing and molecular biomarkers*. 2015; 19(10):579-83. PMID:26273787
32. Dhandapani, M.C., **Venkatesan, V.**, Rengaswamy, N.B. GowrishankarK, Prahlad N, Perumal V. Association of ACE and MDR1 Gene Polymorphisms with Steroid Resistance in Children with Idiopathic Nephrotic Syndrome. *Genetic Testing and Molecular Biomarkers*. 2015, 19(8): 454-456. PMID:26154535
33. Swaminathan M, Ganesh V, Koshy T, Venugopal P, Paul SF, **Venkatesan V**. A Study on the Role of Estrogen Receptor Gene Polymorphisms in Female Infertility. *Genetic Testing and Molecular Biomarkers*. 2016.
34. Mohan S, **Venkatesan V**, Paul SF, Koshy T, Perumal V. Genomic imbalance in subjects with idiopathic intellectual disability detected by multiplex ligation-dependent probe amplification. *Journal of Genetics*.2016;1-6.
35. MohanapriyaChinambeduDhandapani, **VettriselviVenkatesan**, NammalwarBollamRengaswamy, KalpanaGowrishankar, SudhaEkambaram, PrabhaSengutavan, VenkatachalmPerumal. Report of novel genetic variation in NPHS2 gene associated with idiopathic nephritic syndrome in South Indian Children. **Clin.Exp. Nephrol.**, DOI 10.1007/s10157-016-1259-7.
36. Mohan S, Nampoothiri S, Yesodharan D, **Venkatesan V**, Koshy T, Paul SF, Perumal V. Reciprocal Microduplication of the Williams-Beuren Syndrome Chromosome Region in a 9-Year-Old Omani Boy. *Laboratory medicine*.2016;47(2):171-5.
37. Koshy T, **Venkatesan V**, Gowrishankar K, Perumal V, Mohan S, Paul SF. Mutation Analysis of TBX1 in Children with Conotruncal Heart Anomalies. *The Indian Journal of Pediatrics*. 2015;4:1-
38. Ketharnathan S, Koshy T, Sethuratnam R, Paul S, **Venkatesan V**. Investigation of NKX2. 5 gene mutations in congenital heart defects in an Indian population. *Genetic testing and molecular biomarkers*. 2015;19(10):579-83.
39. KalpanaBalakrishnan, SankarSambandam, PadmavathiRamaswamy, SantuGhosh, **VettriselviVenkatesan**, GurusamyThangavel, KrishnenduMukhopadhyay, Priscilla Johnson, Solomon Paul, Naveen Puttaswamy, Rupinder S Dhaliwal, D K Shukla, SRU-CAR Team. Establishing integrated rural–urban cohorts to assess air pollution-related health effects in pregnant women, children and adults in Southern India: an overview of objectives, design and

- methods in the Tamil Nadu Air Pollution and Health Effects (TAPHE) study. *BMJ Open* 2015;5:e008090 doi:10.1136/bmjopen-2015-008090
40. B. Sowjanya, **Vettriselvi V**, B. Suneel, D. Balakrishna, D.R. Nagendrakumar, B. Phani Krishna and J.N. Naidu. Vitamin D Receptor fokI Gene Polymorphism In Angiographically Proven Coronary Artery Disease Subjects : Case – Control Study. **British Journal of Medicine & Medical Research.** -612 to617
41. LavuVamsi,**VenkatesanVettriselvi**,VenkataKameswaraSubrahmanyaLakkakulaBhaskar, Venugopal Priyanka, Paul Solomon Franklin Durairaj, and Rao SureshRanga. Genetic Testing and Molecular Biomarkers. April 2015, 19(4): 175-181. doi:10.1089/gtmb.2014.0275.
42. LavuV,**VenkatesanV**,RaoSR.Theepigeneticparadigminperiodontitispathogenesis. **Journal of Indian Society of Periodontology.**2015;19(2):142-149
43. Koshy T, **Venkatesan V**, Perumal V, Hegde S, Paul SF. The A1298C MethylenetetrahydrofolateReductase Gene Variant as a Susceptibility Gene for Non-SyndromicConotruncalHeartDefects inanIndianPopulation.Pediatriccardiology.2015 ;36(7):1470-5.
44. Shraddha Patel, **V. Vettriselvi**, J. Vikram, Solomon F D Paul. A case control study of GSTM1 genetic polymorphism and risk of lung cancer in a Tamil population. **World Journal of Cancer Research (InPress).**
45. DhandapaniMohanapriyaChinambedu,**VenkatesanVettriselvi**, RengaswamyNammalwarBollam, GowrishankarKalpana, NageswaranPrahlaad, and PerumalVenkatachalam. **Genetic Testing and Molecular Biomarkers.** August 2015, 19(8): 454-456. doi:10.1089/gtmb.2015.0077.
46. V. Nandakumar, **V. Vettriselvi**and M. Doble Toxicity of high glycolic poly(DL-lactic-co-glycolic acid) stabilized ruthenium nanoparticles against human promyelocytic leukemia cells. **RSC Adv.**, 2014,**4**,11438-11443
47. VeerasamyVinodkumar, ShanmugamManoharan, GanapathySindhu, ManoharanRamdosNirmal, **V. Vettriselvi**. Geraniol modulates cell proliferation, apoptosis, inflammation and angiogenesis during 7, 12- dimethylbenz(a) anthracene induced hamster buccal pouch carcinogenesis. Mol Cell Biochem (2012)369:17–25
48. RaheemaBeevi K, Princy Mathew, TeenaKoshy, Solomon F.D. Paul, Venkatachalam P, **Vettriselvi V**. Sex reversal-sibling case reports. Sri Ramachandra Journal of Medicine July 2012: 25-27

49. Sujikumari M, RaheemaBeevi, Nandhini B, TeenaKoshy, **VettriSelvi V**, Venkatachalam P. A mosaic karyotype and y chromosome microdeletion in an infertile male a case report. Sri Ramachandra Journal of Medicine July 2012:18-20

**Conference presentations (Resource person/ Speaker)**

1. CME on Recent updates on liver diseases organized by Department of Biochemistry, SRMC on 16<sup>th</sup> April 2018
2. Certificate course in ART held on 3<sup>rd</sup> Feb 2018
3. Symposium on Genetics and Genomics in cardiovascular diseases organized by Center for Genetic Studies & Research, Institute of cardiovascular diseases, MMM on 8<sup>th</sup> September 2017
4. National Conference on New paradigms in the Development of Biotechnology in Health Care (NPDBH 2017) & Workshop on Emerging Nanomaterials for Health Care Applications during 15<sup>th</sup> February 2017
5. CME on Hematopoietic stem cell transplant – an overview SRMC 2<sup>nd</sup> July 2016
6. Avidadham'16 - International Conference on Recent Advances in Diagnosis and Treatment of Metabolic Disorders organized by Department of Biotechnology, Anna University - Chennai. 18<sup>th</sup> and 19<sup>th</sup> March 2016
7. Development workshop on Demystifying developmental scales & tests and CME on Neurodevelopmental Disabilities – What happens conducted by KCDU, SRMC from 30<sup>th</sup> to 31<sup>st</sup> January 2016
8. INSPIRE internship for school children – science camp sponsored by the national council for science and technology communication (NCSTC) DST 26<sup>th</sup> to 30<sup>th</sup> September 2016, SRMC
9. CME on Inborn errors of Metabolism Organised by SCOPE, SRMC on 9<sup>th</sup> May 2015
10. CME on “Gene- A double helical road to Medicine” organized by Karpagam Institute of Medicines, Coimbatore on 22<sup>nd</sup> September 2015
11. CME on Genomics in Health and Disease organized by Adichunchanagiri Institute of Medical Sciences, Mandya, Karnataka on 25<sup>th</sup> April 2015
12. National level seminar on Bionanotechnology: An Emerging field in Modern Science organized by Holy Cross College, Nagercoil on 6<sup>th</sup> January 2015.
13. Biochemistry CME organized by Mysore Medical College & Research Institute, Mysore on 16<sup>th</sup> January 2014