

Dr. RAMAKRISHNAN. V

Associate Professor in Genetics
Faculty of Allied Health Sciences (FAHS)
Chettinad Academy of Research & Education (CARE)
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Qualifications

Ph.D.: 2009, University of Madras, Chennai, Tamil Nadu, India.

M. Phil.: 2001, University of Madras, Chennai, Tamil Nadu, India.

Professional Summary

- Ten years' experience in research, teaching and administration post Ph.D. Actively participated in continued learning through professional research and conferences.

Research Interests

- Molecular cytogenetics dealing with chromosome abnormalities and large genomic variations associated with infertility and congenital heart disease, etc.
- Genetic predisposition studies on metabolic disorders focusing on recent advances in identifying genetic variants and risk loci responsible for development of the metabolic syndromes.
- Molecular profiling of genes associated with cervical cancer which deals on somatic mutations and alterations of gene copy number has been extensively characterized.

Post-doc / Work Experience

2008 - 2017: Asst. Professor in Genetics, from 2017 till date - Associate Professor in Genetics, Faculty of Allied Health Sciences, Chettinad Academy of Research & Education, Kelambakkam, Chennai 603 103, India.

Research Guidance

Ph.D.: 01 [Ongoing]

M.Sc.: 05 [Completed]

Summary of Research

No. of Publications	Citations	h-index	i-10 index
34	170	8	8

Publications

- Akram Husain R.S, Subramanian K, Shiek S.S.J.Ahmed and Ramakrishnan V. Association of PSEN1 rs165932 polymorphism with Alzheimer's disease susceptibility: An extensive meta-analysis, *Meta Gene*, 2019; 19:123-133.
- Keerthana S, Aswathi.P and Ramakrishnan V. Essential Genes Associated with Diabetic Nephropathy, *Diabetes Obes Int J*, 2019; 4(1): 000192.
- Viji D, Aswathi P, Pricilla Charmine P, Akram Husain R.S, Noorul Ameen S, Shiek S.S.J. Ahmed and Ramakrishnan V. Genetic association of ABCC8 rs757110 polymorphism with Type 2 Diabetes Mellitus risk: A case-control study in South India and a meta-analysis, *Gene Reports*, 2018; 13: 220–228.
- Akram Husain RS Rajakeerthana R, Anoop Sreevalsan P, Prema Jayaprasad, Shiek S.S.J. Ahmed and Ramakrishnan V. Prevalence of human papilloma virus with risk of cervical cancer among south Indian women: A genotypic study with meta-analysis and molecular dynamics of HPV E6 oncoprotein, *Infection, Genetics and Evolution*, 2018; 62:130-140.
- Akram Husain RS and Ramakrishnan V. SERPING1 Gene Mutations Associated with Hereditary Angioedema, *Journal of Pediatric and Womens Healthcare*, 2018; 1(1):1007.
- Keerthana S, Akram Husain RS and Ramakrishnan V. Effects of KRAS Gene Mutations in Gynecological Malignancies, *Investigations in Gynecology Research & Womens Health*,2018;2(1),2-4.
- Ramakrishnan V, Akram Husain RS, Ahmed SSSJ.PSEN1 gene polymorphisms in Caucasian Alzheimer's disease: A meta-analysis. *Clin Chim Acta*, 2017; 473, 65–70.
- Sheik S.S.J. Ahmed, Akram Husain.RS, Suresh Kumar and Ramakrishnan.V.Association between NOS1 Gene Polymorphisms and Schizophrenia in Asian and Caucasian Populations: A Meta-Analysis, *NeuroMolecular Medicine*, 2017; 1-10.
- V. Ramakrishnan, RS Akram Husain, Shiek SSJ Ahmed. Genetic predisposition of IL-10 promoter polymorphisms with risk of multiple sclerosis: A meta-analysis. *Journal of Neuroimmunology*, 2017; 306, 11-8.
- Ramakrishnan V and Akram Husain RS. MAOA Gene Associated with Aggressive Behavior in Humans, *J Down Syndr Chr Abnorm*, 2017; 3:1.
- Shiek S.S.J. Ahmed, Akram Husain .RS, Suresh Kumar, Ramakrishnan .V. Association between MDR1 gene polymorphisms and Parkinson's disease in Asian and Caucasian populations: a meta-analysis. *Journal of the Neurological Sciences*, 2016; 368: 255–262.
- V. Ramakrishnan T. Alu Alphonsa, RS Akram Husain, Shiek SSJ Ahmed, K. Subramaniyan,Suresh Kumar. Association of rs1801582 and rs1801334 PARK2 Polymorphisms with risk of Parkinson's disease: A case-control study in South India and Meta-Analysis. *Meta Gene*; 2016; 10: 32–38.

- Ramakrishnan .V, Akram Husain RS and S Gowtham Kumar. An overview of rare genetic disorders and recent diagnostic approaches. *Saudi J Health Sci*, 2016; 5(3): 105 – 117.
- Ramakrishnan .V. MECP2 Mutations Associated with Rett Syndrome - Molecular Approaches. *J Neonatal Biol*, 2016, 5:4.
- Akram Husain RS and Ramakrishnan .V, A review of risk factors in the development of cervical malignancy. *Cancer Sci Res*, 2016; 3(1): 1-4.
- Akram Husain RS and Ramakrishnan. V, PIK3CA Gene Mutations in Major Gynecologic Cancers. *Clin Oncol*, 2016; 1:1110.
- Ramakrishnan V and Akram Husain RS, ABCB1 Gene Polymorphisms Associated with Risk of Parkinson's Disease and Their Functional Relevance, *Journal of Alzheimers Disease & Parkinsonism*, 2016; 6(5): 1000265.
- Ramakrishnan .V and Akram Husain RS. Juvenile Batten Disease – Past and Present Diagnosis. *J Neonatal Biol*, 2016; 5(3): 100e117.
- Ramakrishnan .V and Akram Husain RS. Diabetic Neuropathy – Future Genetic Prospects. *Diabetes Obes Int J*, 2016; 1(2): 112-115.
- Akram Husain R.S., Ramakrishnan .V. Global variation of Human Papilloma Virus genotypes and selected genes involved in cervical malignancies. *Annals of Global Health*, 2015; 81(5): 675 – 683.
- Jayakumar Subramaniyan, Gokuladhas Krishnan, Rajan Balan, Divya MGJ, Elamaran Ramasamy, Shenbhagaraman Ramalingam, Ramakrishnan Veerabathiran, Premkumar Thandavamoorthy, Gopi Krishnan Mani, Devaki Thiruvengadam. Carvacrol modulates instability of xenobiotic metabolizing enzymes and downregulates the expressions of PCNA, MMP-2, and MMP-9 during diethylnitrosamine-induced hepatocarcinogenesis in rats. *Mol Cell Biochem*, 2014; 395(1-2):65-76.
- V. Ramakrishnan S. Gowtham Kumar, Radha Pandiyan. Klinefelter syndrome and its association with male infertility. *Asian Pacific Journal of Reproduction*, 2014; 3(1) 77-79.
- Gowtham kumar Subbaraj, Langeswaran Kulanthaivel, Revathy Rajendran and Ramakrishnan Veerabathiran. Ethanolic extract of carum carvi (EECC) prevents n-nitrosodiethylamine induced phenobarbital promoted hepatocarcinogenesis by modulating antioxidant enzymes. *Int J of Pharm and pharmaceutical Sci*.2013; 5 (1):195-199.
- Ramesh Raja D, Sasikala Natrajamani, Ramakrishnan V. Sperm DNA integrity before and after cryopreservation. *Int J of Med and Apl Sci*, 2013; 2 (4), 200- 213
- Shiek S. S. J. Ahmed, V.Ramakrishnan. Systems Biological Approach of Molecular Descriptors Connectivity: Optimal Descriptors for Oral Bioavailability Prediction, *PLoS ONE*, 2012; 7(7):1-10.

- S.Gowtham kumar, V.Ramakrishnan, N.Madhusudhanan and MP .Balasubramanian Antioxidant activity of Allyl isothiocyanate [AITC] against N-nitrosodiethylamine induced experimental liver carcinogenesis. *J. of Pharm Res.*2011; 4(10): 3690-3694.
- N.Madhusudhanan, T. Lakshmi, S.Gowtham Kumar, V. Ramakrishnan,Venu Gopala Rao Konda, Anitha Roy , R.V Geetha “Invitro Antioxidant And Free Radical Scavenging Activity Of Aqueous And Ethanolic Flower Extract Of Nymphaea Alba”. *Int. J. Drug Dev. & Res.*2011; 3(3): 252-258.
- V.Ramakrisnan, S.Gowtham Kumar, G.Thiyagarajan N.Madhusudhanan and S Vincent, The use of cytokinesis-block micronucleus (CBMN) assay to identify DNA damage in patients with coronary artery disease. *Int J Med Res.* 2011; 1(2): 111-117.
- V.Ramakrishnan, S.Gowtham Kumar, N.Madhusudhanan G.Thiyagarajan, and S.Govindaraju. Effect of 2-Deoxy- D- Glucose and Cyclophosphamide mediated modification of induced genetic damage in albino Mice. *Int J of Bio and Pharm Res.*2011; 2(1):11 – 18.
- V.Ramakrishnan, S.Gowtham kumar and S.Govindaraju. Cytogenetic analysis of micronuclei, sister chromatid exchange and chromosomal aberrations in pan masala chewers. *Int J of Pharm and Biosciences.* 2011; 2(3): 01 – 13.
- S.Gowtham kumar, V.Ramakrishnan, N.Madhusudhanan and MP .Balasubramanian Antioxidant activity of Allyl isothiocyanate [AITC] against N-nitrosodiethylamine induced experimental liver carcinogenesis. *J. of Pharm Res.*2011; 4(10): 3690-3694.
- V.Ramakrishnan, G.Thiyagarajan, S.Pulavendran, S.Gowtham Kumar, N.Madhusudhanan and S Vincent, ‘Study of Serum Metals and Antioxidant Enzymes in Patients with Coronary Artery Disease. *Int J of Genetic Eng and Biotech.* 2010; 1(3):205 – 216.
- Jaya Sudha, V.Ramakrishnan, N.Madhusudhanan, Asit Baran Mandal and Thiyagarajan Gurunathan. Studies on industrially significant haloalkaline protease from *Bacillus* sp. JSGT isolated from decaying skin of tannery, *J. Adv. Lab. Res. Biol.* 2010; 1(1):61-68.
- Elavarasi. D, Ramakrishnan .V, Subramoniam .T, Ramesh .A, K. M. Cherian and C. Emmanuel. 2002. Genotoxicity Study in Lymphocytes of Workers in Wooden Furniture Industry. *Current Science.* 82(7):869- 873.

Books Published

- V. Ramakrishnan and Shiek SSJ. Ahmed “Genetic Associations with Coronary Artery Disease” Lambert Academic Publishing GmbH & Co. KG, Germany. 2013 (ISBN - 978-3-659-34060-4).
- V. Ramakrishnan and S Vincent “Study of serum metals and DNA damage in patients with coronary artery disease (CAD). Lambert Academic Publishing GmbH & Co. KG, Germany. 2011. (ISBN - 978-3-8465-0392-8).
- V. Ramakrishnan. Study of the genotoxic effect of drugs induced genetic damage in mice. Lambert Academic Publishing GmbH & Co. KG, Germany. 2011 (ISBN -978-3-8473-1451-6).

- V. Ramakrishnan. “Age and growth study in the marine fish of *Nemipterus japonicas*” Lambert Academic Publishing GmbH & Co. KG, Germany, 2011 (ISBN - 978-3-8465-9484-1).

Book Chapter

- Shiek S. S. J. Ahmed and V.Ramakrishnan, Marine microorganism: a therapeutically promising source of neuroprotective compounds Encyclopedia of Marine Biotechnology. Wiley-Blackwell Publisher 2019 (ISBN 978-111-914-3772) (Accepted).
- Shiek S. S. J. Ahmed and V.Ramakrishnan, Photoaging and anti-photoaging activity of compounds derived from marine origin. Encyclopedia of Marine Biotechnology. WILEY-Wiley-Blackwell Publisher 2019 (ISBN 978-111-914-3772) (Accepted).

NCBI-Nucleotide Sequences in GenBank

- Total no of partial sequences submitted = 42
- Total no of complete sequences submitted = 02

Patents Filed

- Ramakrishnan.V and Bhavani.B, Methods and testing the use of ESR1 gene polymorphisms in Infertility, 2017(201841000248).
- Ramakrishnan V, Hafsa .S, Santhosh .V and Srivarshini .S, ESR1 PvuII and XbaI polymorphism Associated with Coronary Artery Disease, Methods of detection and uses thereof, 2019, (201941026213).
- Ramakrishnan.V, Pallavi Kesavan, Aiswarya P.S, Umamaheshwari.V Genetic Polymorphisms Associated with Migraine (Headache), Methods of detection and uses thereof, 2019, (201941026210).

Chaired Scientific Session

- Chaired Scientific Session at National conference on “Nanotechnology in Medicine” sponsored by Science and Engineering Research Board (SERB) Department of Science and Technology-(DST), Government of India and organized by Faculty of Allied Health Sciences at Chettinad Hospital and Research Institute on 8th -9th September 2017, Tamil nadu, India.

Workshop/Training Attended

- Participated in one day Workshop on “IPR & Patent Filing” organized by Internal Quality Assurance & Intellectual property Rights Cell, Chettinad Academy of Research and Education, Chennai, India, 8th June, 2017.
- Organized two days National Workshop on Cellular & Molecular Diagnostics on 10th and 11th February, 2017 at Faculty of Allied Health Sciences, Chettinad University, Chennai, India.

- Participated in “Workshop on AJAX Enabled Web Applications” Department of Bioinformatics, Bharath University, Chennai, India, on 6th February 2012.
- Participated in “Workshop on Applications of Metal Nanoparticles” Department of Chemical Engineering, SSN College of Engineering, Chennai, India, on 11th March 2011.
- Attended “One Day Workshop on Nanotechnology” Department of Chemical Engineering, SSN College of Engineering, Chennai, India, on 20th March 2009.
- Participated in “DRDO Sponsored Workshop on Nanotechnology” Department of Chemical Engineering, SSN College of Engineering, Chennai, India, on 20 – 21, August 2009.

Conference papers

- 20 International and 16 National

Editorial Board

- Editorial board member for CIBTech Journal of Biotechnology (CJB) an International Peer Reviewed Open Access journals.
- Editorial board member for SM Journal of Reproductive Health & Infertility (SMJRHI) is an International Peer Reviewed Open Access journal, SM Online Scientific Resources.
- Associate Editor for Diabetes & Obesity International Journal (DOIJ) is an internationally peer-reviewed, Open Access journal, MedWin Publishers.
- Editorial board member for Journal of Neonatal Biology is an International Peer Reviewed Open Access journal, OMICS groups.
- Editorial board member for Neurological Disorders and Stroke Therapy is an International Peer Reviewed Open Access journal, SOAJ.
- Editorial board member for Current Neurobiology is an International Peer Reviewed Open Access journal, published by the Scientific Publishers of India.
- Editorial board member for Journal of Genetics and Genomes is an International Peer Reviewed Open Access journal, OMICS groups.
- Editorial board member for Journal of Pediatric and Women’s Healthcare is an International Peer Reviewed Open Access journal, Science Forecast Publishers.
- Editorial board member for Journal of Neurology Forecast is an International Peer Reviewed Open Access journal, Science Forecast Publishers.
- Editorial board member for Gynecology and Reproductive Endocrinology is a peer reviewed scholarly journal, Science Forecast Publishers.
- Associate Editorial Committee member for Progressing Aspects in Pediatrics and Neonatology (PAPN) is the peer-reviewed journal, Lupine Publishers.
- Associate Editor for Open Access Journal of Urology & Nephrology (OAJUN) is an internationally peer-reviewed, MedWin Publishers.
- Editorial board member for Annals of Genetics and Genetic Disorders is an International Peer Reviewed Open Access journal, Remedy Publications LLC.

□ Editorial board member for Big Data Analytics for Healthcare is an International Peer Reviewed Open Access journal, Welcome to whoice publication.