

Alex George Ph.D

Scientist C
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Jubilee Mission Medical College & Research
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Educational Qualifications

- Ph.D (2010-2014)
Thesis Title -*Micronuclei frequencies and its structural variations in precancerous, fragile chromosome and cancerous syndromes (2014)*
VIT University, Vellore, Tamilnadu
- M.Sc. Biomedical Genetics 2008-2010, VIT University, Vellore, Tamilnadu

Technical Skills

Molecular Skills Human DNA isolation from peripheral blood and tissues, PCR,SSCP, PAGE, RFLP , Blotting techniques ...etc

Cytogenetic Skills Cell culture, Human Leukocyte Culture & karyotyping, Chromosome staining, Banding Techniques, FISH Techniques,Chromosomal Aberration Analysis, Sister chromatid exchange Analysis, CBMN Cyt Assay, Comet Assay...etc

Areas of interest

Cytogenetics and Molecular Genetics

Research experience

- Completed doctoral degree thesis titled ‘Micronuclei frequencies and its structural variations in precancerous, fragile chromosome and cancerous syndromes’ under the guidance of Dr. Radha Saraswathy, Senior professor, VIT university (December 2010- August 2014)
- Undergone six month Project on ‘CYP1B1 Gene Mutation Analysis in Primary Congenital Glaucoma Patients’ (January 2010- July 2010)
- Successfully completed a project on “Gene - environment interactions in ocular diseases” in the sector BIOLOGICAL SCIENCES (INCLUDING BIOTECHNOLOGY) UNDER STUDENT RESEARCH PROJECT SCHEME Sponsored by DBT and State Council during the academic year 2009-2010
- MBL2 gene analysis in Rheumatic Heart Disease (2009-2010)
- AKR1B1 Gene Analysis in Diabetic Patients with Neuropathy (2010-2013)

Research Publications

- Vidya PV, **George A**, Chitra KC. An in vitro study on the induction of micronuclei and other nuclear anomalies in peripheral blood lymphocyte culture by metal oxide nanoparticles. Int. J. Adv. Res. Biol. Sci. 2017;4(1):1-8.
- **George, A.**, R. Dey, V. Bhuria, S. Banerjee, S. Ethirajan, A. Siluvaimuthu and R. Saraswathy,(2014).Nuclear Anomalies, Chromosomal Aberrations and Proliferation Rates in

Cultured Lymphocytes of Head and Neck Cancer Patients. *Asian Pacific Journal of Cancer Prevention*. 15, 1119-1123

- **George, A.**, M. Jayasankar and R. Saraswathy,(2012).Genomic instability in peripheral blood lymphocytes of cancer prone syndromes.*Int J Pharm Bio Sci*. 3, 128-135
- Saraswathy, R., **G. Alex**, B. Basil, A. Badarinath, R. Girish, G. Ribu, V. Abilash, G. Cruz and K. Marimuthu,(2011).Clinical and Cytogenetic Effects in Habitants under Large Duration Exposure of Endosulfan. *Asian Journal of Medical Sciences*. 3, 17-22
- Saraswathy, R., V. Abilash, G. Manivannan, **A. George** and K.T. Babu,(2010).Four novel mutations detected in the exon 1 of MBL2 gene associated with rheumatic heart disease in South Indian patients. *International Journal of Genetics and Molecular Biology*. 2, 165-17
- Mukul Prasad, S. Charles Bronson, Tushar Warriar, A.R.S. Badarinath, Shivam Rai, Kaushal Baid, Sneha Sitaraman, **Alex George**, C.R. Anand Moses, Radha Saraswathy, R. Vasuki, A. Shanmugam. (Accepted). Evaluation of DNA Damage in Type 2 Diabetes Mellitus Patients With and Without Peripheral Neuropathy – A study in South Indian population *Journal of Natural Science, Biology and Medicine*.

Conference Posters & Abstracts

- **Alex George**, Radha Saraswathy, Manoor Prakash Hande. Telomere signal loss and gain: A progressive mode of genomic instability. *National Symposium on Genetics in Clinical Medicine 2017*
- **A. George**, S. Venkatesan, J. Meena, M. P. Hande and R. Saraswathy. Analysis of factors associated with the progression of precancerous to cancerous state in chromosome instability syndromes - a pilot study. *Cancer Genetics & Genomics 2013*, HGM2013-ICG-1317
- Dineshkumar, T., A.R.S. Badarinath, **A. George**, N. Gopalakrishnan and R. Saraswathy. Identification of Affected Ones in the Family with Liddle Syndrome using Genomic Study. CAM Tech-INDIA HACK-A-THONE, 26 NOVEMBER 2012, VIT UNIVERSITY, VELLORE
- Rai, S., M. Prasad, T. Warriar, K. Baid, C.R.A. Mosses, S. C. Bronson, R. Vasuki, **A. George**, A.R.S. Badarinath and R. Saraswathy A study of genetic predisposition of neuropathy in type 1 and type 2 diabetes mellitus patients in Tamilnadu. RSSDI 2012- Chennai
- Bronson, S.C., **A. George**, V. A. Reddy, C.R. A. Mosses and R. Saraswathy Genomic instability in type 2 diabetic neuropathy patients in tamil nadu. RSSDI 2012- Chennai. (Won first prize in RSSDI 2012)
- Warriar, T., S. Rai, M. Prasad, , K. Baid, C.R.A. Mosses, S. C. Bronson, R. Vasuki, **A. George**, A.R.S. Badarinath and R. Saraswathy Demographic Characteristics and Pedigree analysis of type 1 diabetes mellitus patients in northern Tamilnadu population. RSSDI 2012- Chennai
- Prasad M., S. Rai, T. Warriar, T. K. Baid, C.R.A. Mosses, S. C. Bronson, R. Vasuki, **A. George**, A.R.S. Badarinath and R. Saraswathy Assesment of Chromosomal instability in type1 and type 2 diabetes patients withand without neuropathy in Tamilnadu. RSSDI 2012- Chennai
- **George, A.**, K.Vivek, V.G. Abilash, R. Saraswathy, Division of Biomolecules and Genetics, “Gene-Environment interactions in inherited ocular degenerative diseases” VIT-EMSI 2011, P62

- Badarinath, A.R.S., A. Gupta, A. Pandey, **A. George**, E. Sivakumar, V.G. Abilash, R. Saraswathy. Cytomolecular Analysis in Congenital Deafness Patients: An Environmental Perspective. VIT-EMSI 2011, P56

Seminars and Conferences

- Served as Jt. Organising Secretary in “National Symposium on Genetics in Clinical Medicine” organised by Jubilee Centre for Medical Research, JMMC& RI, Thrissur
- Participated in “Theranostics in Health and Disease” NUS-VIT Symposium on 20th July 2017
- Participated in “Genes, Environment & Disease” NUS-VIT Symposium on 19th dec 2013
- Participated in “Molecular Cytogenetics, Epigenetics & Genomics” NUS-VIT Workshop from 20-21 December 2013
- Participated in 40th Annual Conference of the RSSDI to be held at Chennai from October 26th to 28th 2012 in Chennai
- Participated in the silver jubilee International Conference on Biotechnology Solutions for Environmental Sustainability, held in VIT University, Vellore
- Participated in the National Conference on Biotechnology for Human Development held in VIT University organized by VIT University, society for biotechnologists, India & Rajiv Gandhi centre for biotechnology, Thiruvananthapuram
- Attended and presented a poster in the “XXXVI Annual Conference of Environmental Mutagen Society of India (EMSI) and International Symposium” on “Environmental Exposures to Mutagens and Carcinogens on Human Health” VIT Universty, vellore, INDIA.