

Saji K G, PhD

Scientist B1

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Educational Qualifications

- ✧ Doctor of Philosophy: In Zoology (Epidemiological, Haematological, Biochemical and Lung Function Studies in Workers Exposed to Cement. from Mahatma Gandhi University w.e.f. 29.11.2017)
- ✧ Post Graduation: MSc. Zoology (Human Genetics, St. Aloysius College, Elthuruth, 2006, 86%)
- ✧ Graduation: BSc. Zoology (Clinical Laboratory Techniques, St. Aloysius College, Elthuruth, 2002, 78 %)

Professional Qualifications

- ✧ Two-year Diploma in Medical Laboratory Technology - Add on course– 2002(Kerala Para Medical Education Society, Ernakulam)
- ✧ Two months vocational training in MLT -2002 (Polyclinic, Thrissur)
- ✧ Three months professional training in Cytogenetic Techniques- 2006 (Bharathiar University, Coimbatore)

Technical Skills

<i>Genetics and Genomics</i>	Karyotyping, Chromosome staining, Banding Techniques, FISH Techniques, Chromosomal Aberration Analysis, Sister chromatid exchange Analysis, CBMN Cyt Assay, Comet Assay, DNA and RNA sequence analysis
<i>Molecular Biology</i>	Human DNA, RNA, cfDNA, cfRNA and Protein isolation from blood, Urine and tissues, PAGE and RFLP.
<i>Cell Culture/ Cell line preparation</i>	Human Leukocyte Culture, Culturing, and maintenance of cell lines (including stable cell lines)

Areas of interest- #Genetics and Molecular Biology, #Clinical Research, #Congenital Anomalies, #Occupational Health, #Geographic information System, #Epidemiology and, #Cancer

Awards, Fellowships and Special Achievements

- ✧ Mahatma Gandhi University fellowship for Ph.D research
- ✧ Won the best oral presentation for the paper entitled “Health Risk Due to Cement Exposure” in National Conference on Frontier Areas in Applied Zoology held at Department of Zoology Ayya Nadar Janaki Ammal College, Sivakasi, Tanil Nadu on 15th to 17th March, 2012.
- ✧ Awarded best paper award for the paper entitled “Consequences of Urbanization- Variation in pulmonary function in workers exposed to cement dust” in National Seminar on sustainable waste management held at Vimala College, Thrissur on 15th March, 2016.
- ✧ Participated in “THE WORD” the largest speech competition held at Devamatha CMI Public School, Thrissur on 17th March, 2016, which made it to the Guinness book of World Records.
- ✧ Chaired a technical session in National Conference on Innovation in Biodiversity Conservation in Indian Scenario held at P.G. Department of Zoology St.Aloysius College, Elthuruth on 13th &14th March 2018.
- ✧ Chaired a technical session in State Conference on Innovative Approaches in Biological Sciences held at P.G. Department of Zoology St.Aloysius College, Elthuruth on 25th January, 2018.

Research experience

- ✧ Three year post doctoral research experience in Smile Train India Funded project entitled ‘Epidemiological and genetic research among the orofacial cleft patients from central Kerala’ at Jubilee centre for medical research from 2nd August,2021 to 3rd May 2024.
- ✧ Six years doctoral research experience in Epidemiology, Laboratory and Spirometry procedures.

Teaching and Supervision

- ✧ Total Experience –11 years at Dept. of Zoology, St. Aloysius College, Elthuruth, Thrissur as Lecturer/ Assistant Professor on contract basis.
- ✧ Guided 16 MSc projects and 4 BSc projects at St. Aloysius College,Elthuruth, Thrissur

Oral/Poster Presentations

- ✧ ‘Health Risk Due to Cement Exposure’ in National Conference on Frontier Areas in Applied Zoology held at Department of Zoology Ayya Nadar Janaki Ammal College, Sivakasi, Tanil Nadu on 15th to 17th March, 2012.
- ✧ ‘Haematological studies in workers exposed to cement dust’ in National conference on Modern trends in Zoological Research Scenario held at P.G. Department of Zoology St. Aloysius College, Elthuruth on 25th & 26th March 2014.
- ✧ ‘Consequences of Urbanization - Variation in pulmonary function in workers exposed to cement dust’ in National Seminar on sustainable waste management held at Vimala College, Thrissur on 15th March, 2016.
- ✧ ‘Impact of Occupational Cement Dust Exposure on Human’ in National Seminar on Toxins in Everyday Life- Impact on Biota held at Vimala College, Thrissur on 12th July, 2017.
- ✧ ‘Comparison of Health Hazards in Workers Exposed to Dry And Wet Cement’ in Biosciences held at P.G. Department of Zoology St. Aloysius College, Elthuruth on 27th October, 2012.
- ✧ ‘Spirometric Measurements in Workers Exposed to Cement Dust’ in Biosciences 2013 held at P.G. Department of Zoology St. Aloysius College, Elthuruth on 28th December, 2013.
- ✧ ‘Genetics in Oncology’ in the regional seminar on Genetics of Diseases held at P.G. Department of Zoology St. Aloysius College, Elthuruth on 7th February, 2012.
- ✧ ‘Genetics in Oncology’ in the national workshop on Genetics of Diseases held at P.G. Department of Zoology St. Aloysius College, Elthuruth on 18th January 2013.
- ✧ ‘Haematological Studies in Workers Exposed to Cement’ ‘National Conference on Modern Trends in Zoological Research Dept of Zoology St.Aloysius College, Elthuruth, Mar 25-26, 2014
- ✧ ‘Health risk assessment among dry cement exposed group’ in the international seminar on Health science Research: Opportunities and challenges organized by Department of Zoology Vimala College, Thrissur on 30th January, 2019.
- ✧ Mapping of Orofacial clefts using Geographic information System- A Hospital based study from Central Kerala in Collaborative research initiative on Science and Technology (CRIST) at Jubilee Centre for Medical Research, Jubilee Mission Medical College & Research Institute , Thrissur, Kerala, 680005, on 1st July, 2023.
- ✧ Spatial pattern of orofacial cleft distribution using GIS application on research day at Jubilee Centre for Medical Research, Jubilee Mission Medical College & Research Institute, Thrissur, Kerala, 680005, on 22nd June, 2024.

Publications

- ✧ Saji K. G, Sreelata B Nair, Deepthi Venugopal, Zubair M. and Varghese P. R. Health risk in cement workers – An Epidemiological study. *Scientia*. 2012. Vol.8 (1) 140-144.
- ✧ Saji K. G, Sreelata B Nair, Zubair M. and Varghese P. R. An Epidemiological Study In Construction Workers. *Millennium Zoology*. 2012, Vol.13 (1) 46-49.
- ✧ Saji K. G, Sreelata B Nair, Deepthi Venugopal , Zubair M. and Varghese P. R. Comparison of Health Hazards in Workers Exposed to Wet and Dry Cement. *Bioscience* 2012. 16-20. ISBN 978-81-909551-7-1
- ✧ Saji K. G. and Varghese P.R. An Epidemiological Study on Health Status of Cement Workers. *International Journal of Science and Research* 2014 Vol.3 (10): 34-37.
- ✧ Saji K. G, Zubair M. and Varghese P. R. Health Risk in Workers Exposed to Wet Cement. *International Journal of Research in Medical and Health Sciences* 2014. 4 (5).34-37
- ✧ Saji K. G. and Varghese P.R. Haematological Studies in Workers Exposed to Cement. *Proceedings of the National Conference on Modern Trends in Zoological Research* 2014. 68-70. ISBN No. 978-81-909551-8-8
- ✧ Saji K. G, Zubair M. And Varghese P. R. Health Risk Assessment in Immigrant Construction Workers In Kerala. *Millennium Zoology*. 2014, Vol.15 (1) 41-43.
- ✧ Saji K. G, Sreelata B Nair and Varghese P. R. Health Risk Due to Dry Cement Exposure. *Millennium Zoology* 2015, Vol.16 (1) 38-40.
- ✧ Varghese P R., Zubair M, Saji K G., and Alex George. Epidemiological Study on Spray Paint Workers. *IOSR Journal of Dental and Medical Sciences*. 2016, 15 (9 Ver. X). 17-19.
- ✧ Saji K. G. and Varghese P.R. Prevalence of pulmonary impairment symptoms among dry cement exposed group *Scientia* 2017. 13(1). 78-80
- ✧ Saji K. G, Zubair M. Sreelata B Nair, and Varghese P. R. An epidemiological study on effect of occupational exposure of cement. *International Journal of Community medicine and Public health* 2018. 15 (12).
- ✧ Saji K. G. and Varghese P.R. A preliminary study on pulmonary function in workers exposed to dry cement. *International Journal of Research and Analytical Reviews* 2020. 7(3): 960- 963