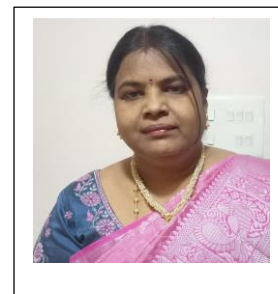


Dr. J. Vijayalakshmi, M.Phil., Ph.D.,
Associate Professor,
 Department of Human Genetics,
 Faculty of Biomedical Sciences, Technology & Research,
 Sri Ramachandra
 Institute of Higher Education & Research, (DU),
 Porur, Chennai-600 116.
Phone No : 94442 45906. Email: vijayalakshmi.j@sriramachandra.edu.in



- ❑ **Professional Summary:** Associate Professor at the department of Human Genetics with 22 years of experience, in teaching Undergraduates, Post graduates and internship students. Part of a diagnostic team with technical expertise on Cytogenetics and trained academicians and students on karyotyping. Research Domain is on Clinical Cytogenetics, Biodosimetry and Reproductive Genetics.
- ❑ **Awards/Recognition:** Completed four projects as Co-PI (3) and PI(1) funded by INMAS, DRDO, Delhi
- ❑ **Ongoing Project:** One ongoing project funded by BRNS, AERB, Mumbai. (32.1L)
- ❑ Completed CLXXXV **Internal Auditor and Quality Management Systems certificate course as per ISO 15189-2012** at Sri Ramachandra Medical College and Research Institute. 16th to 19th August, 2017. (Foundation of Quality (India))
- ❑ Participated in Conferences, delivered Invited Lectures, Oral and poster presentations, and organized few conferences and workshop as Resource person at National or International conference/symposia.
- ❑ Published more than 15 Original and Review article in reputed journals with high impact factor.

List of ongoing and Completed Projects:



S.No	Title of the project	Year	Amount (Rs)
1.	Comparison of dose response curve of ⁶⁰ Co, gamma X-ray induced cytogenetic markers (M/A)- DAE BRNS funded project Major (Three years) {ON-GOING}	2021	32,47,100.00
2.	Synergistic effect of 2D Nanomaterials with Chemotherapeutic drugs and Radiotherapy on cancer cells – An in vitro Study (Co-Investigator) Minor (One year)	2020	95,000.00
3.	Selected for Summer Training project as Co-investigator BDS (Dr.) Reshma PI. Dr. Divyambigai	2018	10,000.00
4.	Selected for Summer Training project as Co-investigator BDS (Dr.) Aashi PI. Dr. Divyambigai	2019	10,000.00

5.	Chemoprotective efficacy of resveratrol against Cisplatin and Bleomycin induced chromosome damage in human peripheral blood lymphocytes evaluated by Cytokinesis Blocked Micronucleus (CBMN) and Sister Chromatid Exchange Assay. (GATE PROJECT)	2016	95,000.00
6.	Cytogenetic and Y chromosome microdeletion screening in infertile men with abnormal spermiogram. (Chancellor Fellowship- Summer Training Project) . Determinants of male infertility in semen samples of infertile men with azoospermia.	2016	10,000.00

LIST OF PUBLICATIONS	
1.	J Vijayalakshmi , Teena Koshy, Harpreet Kaur et al., 2010. Cytogenetics of patients with Primary Amenorrhea. Int J Hum Genet; (2010) 10(1-3): 71-76.
2.	J. Vijayalakshmi ; P Venkatachalam; Solomon F.D. Paul., Chromosomal anomalies in patients with azoospermia and oligoasthenoteratozoospermia. Int J Hum Genet; (2011). 11(2): 117-121.
3.	J. Vijayalakshmi , Venkatachalam P, Sanjeeva Reddy, Usha Rani G and Manjula. G. Microdeletions of AZFc Region in Infertile Men with Azoospermia and Oligoasthenoteratozoospermia; Int. J Hum Genet; (2013). 13(4): 183-187.
4.	Anandpriya, Darling Chellathai, Seethalakshmi S, <u>Vijayalakshmi. J.</u> Evaluation of genetic and molecular toxic effects of Ciprofloxacin. Int J of Phar & Therapeutics; (2013). 4(4) 265-269.
5.	Bhavani M, Tamizh Selvan G, Kaur H, Adhikari J, Vijayalakshmi J, Venkatachalam P, Chaudhury NK. Dicentric chromosome aberration analysis using giemsa and centromere specific fluorescence in-situ hybridization for biological dosimetry: An inter- and intra- laboratory comparison in Indian laboratories. Applied Radiat Isot; (2014). (92) 85-9.
6.	G Tamizh Selvan, M Bhavani, J Vijayalakshmi , F D Paul Solomon, N K Chaudhury, P Venkatachalam. Delayed mitogenic stimulation decreases DNA damage assessed by micronucleus assay in human peripheral blood lymphocytes after (60)co irradiation.Dose Response. (2014). 4;12(3) 498-508.
7.	Raavi Venkateswarlu, Selvan G. Tamizh, Manivannan Bhavani, Arun Kumar, Amit Alok, Kanagaraj Karthik, Namita Kalra, J. Vijayalakshmi , Solomon F. D. Paul, N. K. Chaudhury, Perumal Venkatachalam. Mean frequency and relative fluorescence intensity measurement of gamma. An inter-and intra laboratory comparison and its relevance for its radiation triage. Cytometry A; (2015). 87(12): 1138-46.
8.	Raavi, Venkateswarlu, Safa Abdul Syed Basheerudeen, Vijayalakshmi Jagannathan , Santosh Joseph, Nabo Kumar Chaudhury, and Perumal Venkatachalam. "Frequency of gamma H2AX foci in healthy volunteers and health workers occupationally exposed to X-irradiation and its relevance in biological dosimetry." <i>Radiation and environmental biophysics</i> 55 (2016): 339-347.
9.	Ganesh K, Selvan GT, Ganga S, Paul SF, Ramesh A, Vijayalakshmi J . Cytokinesis-blocked micronucleus assay as biomarker for risk of lung cancer. Indian J Health Sci. 2016;(9):202-6.

10.	Vidhya Venugopal.et al. Manikandan Krishnamoorthy ¹ , Vidhya Venugopal ^{1*} , Vettriselvi Venkatesan ² , Vijayalakshmi Jagannathan ² and Paul S.F.D ² Occupational Heat Stress, DNA damage and Heat Shock Protein (2018). Medical Research Archives vol 6 Issue 1. January Issue. Medical Research Author.
11.	Association between occupational heat stress and DNA damage in lymphocytes of workers exposed to hot working environments in a steel industry in Southern India Vidhya Venugopal, Manikandan Krishnamoorthy, Vettriselvi Venkatesan, Vijayalakshmi Jaganathan , Rekha Shanmugam, Karthik Kanagaraj. 346-359 Accepted 07 Jun 2019, Published online: 22 Jul 2019 Download citation https://doi.org/10.1080/23328940.2019.1632144
12.	Aswathy S. Lal, S. Kauser Begum, Sraddha S. Bharadwaj, Lalitha V., Vijayalakshmi J. , Solomon F.D. Paul, Ravi Maddaly ¹ . Toxicology in Vitro. Volume 54, February 2019, Pages 367-374. Bleomycin-induced genotoxicity in vitro in human peripheral blood lymphocytes evidenced as complex chromosome- and chromatid-type aberrations
13.	Archana.S, G. Siva Krishna, Vijayalakshmi, Devika Gunasheela (2020) (21-4. Acta Scientific pediatrics. Pregnancy outcome in fresh and frozen embryo transfer in women with high estradiol levels.
14.	Archana, S., Vijayalakshmi, J., Usha Rani, G., Paul, S.F., Reddy, S. and Manjula, G., 2022. The comparison of Y chromosome micro deletion incidence in blood DNA and sperm cell DNA. <i>Molecular Biology Reports</i> , pp.1-6.
15.	Vijayalakshmi, J., Chaurasia, R.K., Srinivas, K.S., Vijayalakshmi, K., Paul, S.F., Bhat, N.N. and Sapra, B.K., 2023. Establishment of ex vivo calibration curve for X-ray induced “dicentric+ ring” and micronuclei in human peripheral lymphocytes for biodosimetry during radiological emergencies, and validation with dose blinded samples. <i>Heliyon</i> , 9(6).

INVITED LECTURES AND PRESENTATIONS AT NATIONAL OR INTERNATIONAL CONFERENCE / SYMPOSIA		
CME	“Oncology going molecular” 28 th July, 2017	Sri Ramachandra Laboratory Services.
CME	Diagnostic and Therapeutic significance of Osteopontin and associated genes in breast and other cancer. August 23 rd 2017. (Two Credit hours)	Sri Ramachandra Medical College and Research Institute, Porur, Chennai 600 116.

Invited Speaker (International Conference)	Determination Of Radiation Induced Chromosomal Aberration By Giemsa Trypsin-Giemsa (GTG) Banding: An Initial Attempt Vijayalakshmi J, Department of Human Genetics, Faculty of Biomedical Sciences, Technology & Research, Sri Ramachandra Institute of Higher Education & Research (DU), Chennai 6 th Oct 2018	  <p style="text-align: center;">ICRB - 2018 International Conference on Radiation Biology <small>Under the auspices of Indian Society of Radiation Biology</small></p> <p style="text-align: center;">ADVANCES IN RADIATION BIOLOGY-RADIOTHERAPY AND RADIATION COUNTERMEASURES <small>Pre conference workshop on 4th October 2018</small></p> <p style="text-align: center;"><small>14th Biennial Meeting of Indian Society for Radiation Biology (ISRB)</small></p> <p style="text-align: center;"><small>Organized by</small></p> <p style="text-align: center;">NITTE K S HEGDE MEDICAL ACADEMY Venue: KSHEMA Auditorium</p> <p style="text-align: center;"><small>Date : 4th - 6th October 2018</small></p>
WORKSHOP (Resource person)		
Invited Speaker (International Conference) for Workshop	a. Calculation of mitotic index b. Grouping of metaphase chromosomes	Dr. J. Vijayalakshmi , Associate Professor, Genetics Department of Human Genetics, Sri Ramachandra Institute of Higher Education and Research, (Deemed to be University), Porur, Chennai, 600116. TN India. 11.45 – 01.00 PM
JUDGE for Oral Presentation	ICRB, 4 th October, Advances in Radiation Biology – Radiotherapy and Radiation Counter measures (2018)	NITTE UNIVERSITY, MANGALORE
Resource Person	XVII National IOAMP postgraduate convention 2018, 7 th and 8 th July, 2018	Sri Ramachandra Dental College, SRMC and RI.
	Blended learning , 19 th July 2018	<i>Organized by Sri Ramachandra Health Professionals Education and Faculty Development and Medical Education Unit</i>
	Research Methodology Workshop, 30 th Nov, 2018. SRMC Credit (4 hours)	<i>Organized by Sri Ramachandra Health Professionals Education and Faculty Development and Department of Community Medicine of Sri Ramachandra institute of Higher Education and Research ,(DU)</i>
Invited Speaker	Special Interest Group-Human Genomics and Rare disorders. Theme: Rare Disease-:"Bridging health and Social care" (February-28 th 2019)	JSS Medical College, JSS Academy of Medical Sciences, Mysuru. Karnataka, India
Poster Presentation	Vijayalakshmi J, Andrea Mary F, Harpreet Kaur, Lalitha V, Suji Kumari, Solomon F.D. Paul. A cytogenetic investigation of couples with recurrent spontaneous abortions and infertile individuals with recurrent IVF/ICSI failure.	Madras Medical College, Chennai, and Department of Human Genetics, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai 600 116. March -2019.
	Cytogenetics of Infertility and Recurrent Spontaneous Abortion in an South Indian population. <i>Vijayalakshmi. J^[1], Andrea Mary F^[1],</i>	Madras Medical College, Chennai and Department of Human Genetics, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai 600 116. March -2019.

	<i>Solomon F.D. Paul^[1] Adhirai Anbbalagan^[2], Divya Balakrishnan^[2], Shanju Viganini J Pandian^[2], Uma Parvathi. L^[2] Sanjeeva Reddy^[3], Manjula.G^[3]</i>	
Resource Person	Annual meeting of the Indian Society of Human Genetics, February 13 th to 15 th , 2020 ISHG	Advancing Health Care through Genomics. (2020)
Judge for Poster Session	Annual meeting of the Indian Society of Human Genetics, February 13 th to 15 th , 2020 ISHG	Advancing Health Care through Genomics. (2020)
E-Poster	Role of Resveratrol (Red Wine) used to reduce the radiation exposure in the human peripheral blood lymphocytes (in vitro)	Vijayalakshmi. J, Yameena, Sathik Shajahanl, Preetha Devi B, Solomon F.D. Paul. Central Research Laboratory, K.S Hegde Academy, Mangalore
E-Poster	Chemoprotective efficacy of Melatonin against Cisplatin using (in vitro).	Vijayalakshmi. J, Surabhi Ganga, Jayasuriya M, Anand .S. Central Research Laboratory, K.S Hegde Academy, Mangalore.
E-Poster	Identification of specific chromosomes susceptible to radiation induced damages by GTG banding.	Hemalatha A, Jayashree R.K., Bhasker A, Jacob M, Paul S.F.D, Vijayalakshmi. J, Sathish .S, Hemavathi and Vijayalakshmi. J. Central Research Laboratory, K.S Hegde Academy, Mangalore
	Construction of in vitro dose response curve for Cs 137 gamma radiation induced chromosome aberrations using Giemsa-Trypsin-Giemsa Banding	Jayashree R.K., Hemalatha A, Bhasker A, Jacob M, Paul S.F.D, Vijayalakshmi. J, Sathish .S, Hemavathi and Vijayalakshmi. J. Central Research Laboratory, K.S Hegde Academy, Mangalore
Invited Speaker	"Biodosimetry Perceptives on current trends"	Central Research Laboratory, K.S Hegde Academy, Mangalore 5 th -7 th March, 2020.
Participated	Online teaching experiences, Challenges, and strategies.	Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai. 1 st August, 2020.
Participated	"Aspects of outcome based Education use of software"	Organized by Department of Biotechnology, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur. 6 th to 8 th August, 2020.
Participated	National Education Policy -2020 for Higher Education	SRIHER University, 10 th August, 2020.
Participated	Compliment Immunity and vasculature	Department of Biotechnology, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur. 20 th August, 2020.
Participated	Essentials of Medical writing	Indian Association of Medical Journal Editors, 28 th August, 2020.
Participated	Essentials of Medical writing	Indian Association of Medical Journal Editors, 11 th September, 2020.
	Placing the result in perceptive	Indian Association of Medical Journal Editors, 25 th September, 2020.

Participated	International Webinar on Bioethics in the COVID pandemic	Organized by Bioethics unit of Sri Ramachandra Institute of Higher Education and & Research, in Collaboration with the department of Education, UNESCO, Chair in Bioethics, Haifa, 27 th August, 2020.
	Research in Health Care using Secondary data February 19 th , 2021.	Sri Ramachadra Institute of Higher Education and Research, (DU), Porur, Chennai.
Invited Speaker (International Conference)	42 nd Annual Conference of Indian Association of Biomedical Scientist (IABMS). “ Recent Trends and Advances in Biomedical Sciences” –An integrated Approach.	November 25-27 th , 2021. NITTE (Deemed to be University), KSHEMA.
Participated	National Science day-3 rd March 2023.	Extra mural funding
Poster Presentation	Establishment of dose response relationship for X-rays induced Micronucleus formation in Human Lymphocytes, employing Giemsa and Acridine Orange staining. Jacob Moses, Vijayalakshmi. J, Satish Srinivas, Rajesh Chaurasia, Sonia Velarsan	5 th Asian Congress of Radiation Research (5 th ACRR) and 3 rd Biennial Meeting of the society for Radiation Research organized by Bioscience Group, Bhabha Atomic Research Centre, Mumbai, Society of Radiation Research, India and Asian Association for Radiation Research (AARR). November 17-20, 2022
Poster Presentation	Protective Efficacy of Resveratrol against ROS induced Cytotoxic and Genotoxic effects in Human blood lymphocytes. Sonia Velarsan, Jacob Moses, Vijayalakshmi. J.	5 th Asian Congress of Radiation Research (5 th ACRR) and 3 rd Biennial Meeting of the society for Radiation Research organized by Bioscience Group, Bhabha Atomic Research Centre, Mumbai, Society of Radiation. Research, India and Asian Association for Radiation Research (AARR). November 17-20, 2022