

Area of Research Expertise: Cytogenetics, Molecular Genetics

Projects conducted:

- ✓ *Ongoing:* Study on the genetic variants of thiopurine methyl transferase (TPMT) in 6-Mercaptopurine mediated hematological toxicity in childhood acute lymphoblastic leukemia (2014-2016) Funded by: *GATE project of Sri Ramachandra University*
- ✓ *Ongoing:* Study on the genetic variants of thiopurine and folate metabolic pathway and 6-Mercaptopurine -mediated hematological toxicity in childhood acute lymphoblastic leukemia (2015-2018) Funded by: *Department of Biotechnology*

• **Professor Emeritus / Visiting Professors, if any:** NA

• **Awards & Recognitions of faculty:** NA

• **Workshop, training undergone by faculty:** NA

• **Membership in Committees etc.:**

- ✓ Member of the Institutional Ethics Committee Review Board for submissions by graduate students and non-medical post graduates.
- ✓ Faculty advisor for students for College of Biomedical Sciences Technology and Research, Sri Ramachandra University.

• **List of Publications:**

- ✓ Anbarasan S, Baraneedharan U, Paul SF, **Kaur H**, Rangaswami S, Bhaskar E. Low dose short duration pulsed electromagnetic field effects on cultured human chondrocytes: An experimental study. *Indian J Orthop* 2016;50:87-93
- ✓ Bhavani M, TamizhSelvan G, **Kaur H**, Adhikari JS, 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. *ApplRadiatIsot.* 92: 85-90 (2014)
- ✓ P. Venkatachalam, Solomon F.D. Paul, **HarpreetKaur**, and R.K. Jeevanram. Standardisation and Validation of Cytogenetic Markers to Quantify Radiation Absorbed Dose. *Defence Science Journal*, 61(2): 125-132 (2011)
- ✓ J. Vijayalakshmi, TeenaKoshy, **HarpreetKaur**, F. Andrea Mary, R. Selvi, V. DeepaParvathi, R. Bhavani, R. VikramJayanth, P. Venkatachalam and Solomon F.D. Paul. Cytogenetic Analysis of Patients with Primary Amenorrhea. *Int J Hum Genet*, 10(1-3): 71-76 (2010)
- ✓ DamaniaPreethi, **HarpreetKaur**, Solomon F.D. Paul, Thayalan K., Balu David M. and P. Venkatachalam. Effect of dose rate and energy on the yield of chromosomal aberrations in peripheral blood lymphocytes exposed low LET ionizing radiation *Brachytherapy News* 2009; 1: 13-17.
- ✓ Solomon F.D. Paul, Vijayalakshmi J., Koshy T., **Kaur H**, Venkateswaran N and Venkatachalam P. From Ideogram to spectrogram – Part I. *Advanced Biotech* 6(10): 30-33 (2008)

- ✓ Solomon F.D. Paul, Vijayalakshmi J., Koshy T., **Kaur H.**, Venkateswaran N and Venkatachalam P. From Ideogram to spectrogram – Part II. *Advanced Biotech* 6(11): 34-38 (2008)
- ✓ Cyrus C, **Kaur H.**, Koshy T, Thankanadar J, Nallathambi C. A de novo reciprocal t(2;18) translocation with regular trisomy 21. *Genet Test.* 11(4):459-62 (2007)
- ✓ **Harpreet K.** Solomon F.D. Paul, Jayanth V.R., Thayalan K., David B. and Venkatachalam P. In-vitro dicentric and micronucleus dose response curves for cobalt-60 gamma radiation for biological dosimetry. *Indian J. Rad. Res* 4 : 10-18 (2007)
- ✓ **Kaur H.**, Teena K, Venkateswaran N., Venkatachalam P. and Solomon F.D. Paul. Chromosome painting and its versatility in modern diagnostics. *Sri Ramachandra Journal of Medicine* 1: 20-26.(2007)