

Brief Biography

Remya Syamala

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Remya S is a research student at Human Genetics Unit (HGU), Faculty of Medicine, University of Colombo, Sri Lanka. She has done her MSc in Zoology. She has undergone trainings on various genetic analysis techniques from Regional Cancer Centre (RCC) Thiruvananthapuram in India. She is well versed in techniques such as Polymerized Chain Reaction (PCR), Agarose gel electrophoresis, Fluorescent in situ Hybridization (FISH), Centromere Specific Probs (CEP), Whole Chromosome Painting etc. She is experienced in genetic reporting based on ISCN [2016] and Olympus BX51 microscopy and analysed over 2500 samples during her tenure at Child Development Centre, Government Medical College, Thiruvananthapuram, India. She had particular exposure in setting up of genetic analysis laboratory, standardisation of protocols and implementation of Quality Control standards.

She has research interests in utilizing advantages of different genetic analysis techniques to get a more comprehensive picture of heterogeneous and dynamic cancers like Colorectal Cancer (CRC). Her current study is to utilize the more comprehensive coverage offered by analysis of circulating tumour DNA (ctDNA) in peripheral blood to supplement the results of tissue biopsy - the current gold standard in cancer genetics. Further, correlation of the identified somatic gene variations with microbiome profile estimated through the analysis of fecal samples of CRC patients is expected to provide new insights in to the mechanism of CRC. During her ongoing studies at HGU, she had opportunity to learn from the pioneers in genetic research in Sri Lanka.