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Many are familiar with the word DNA but possess a vague idea of this three-lettered alphabet. Deoxyribonucleic Acid or DNA carry genetic information in segments which are termed as â€˜genesâ€™ commonly and forms the base of development of all living species. Mostly constituted of nucleic acid, DNA is one of the major macromolecule which is necessary to sustain life. A specific type of the DNA known as the genomic dna, contains the entire set of generic data of a living organism

A complete set of this type of DNA is present in the cells of every living being. The function of cell is complex and different operations establish the active part of a genome. This results in formation of differentiated cells and controlling of cell function. But procedure of working may differ from theory and this is the prime cause for development of genetic abnormalities and other related problems. Researches on this type of DNA are continuously in progress and this will lead to the discovery of diagnosis and ailments for several genetic conditions. Sequencing of genomic DNA is essential for this reason. With sequencing information, it will be possible to distinguish the areas where this type of DNA can differ between humans. Differences between genomic DNA can lead to the understanding of genetic traits which will be helpful in dealing with congenital abnormalities.

Precaution must be exercised when handling genomic dna. Generally, the DNA is a stable macromolecule. But introduction of nucleases to DNA can degrade it and hence should be avoided. Genomic DNA consists of very large and fragile DNA molecules and hence to maintain the integrity of genomic DNA, it is necessary to avoid extremely rough pipetting and vortexing. The main objective of all researchers across the globe is to manipulate the genomic DNA which will prove easier in understanding the function of the genome..

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