Abstract

A gene is a segment of DNA that contains all the information necessary to analysis the defects and genetic problems that evolves in an organism. A gene is also the unit of information that is transferred through transcription and translation. This paper discusses the changes that happens in the cell either internal or external environment can lead to changes in gene expression. Most human diseases manifest through a mis-regulation of gene expression. The outputs of DNA Microarray are processed by computation tools to take out biological significance which may help to detect human disease. Computation tools include a variety of algorithms of data mining, support vector machines, pattern recognition etc. Finding desired algorithm plays a major role in research to satisfy the requirements. Surveys on computational analysis of gene expression pattern are discussed here.

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Index Terms

Computer Science                           Pattern Recognition

Keywords

Gene, DNA, Microarray, Protein structure, Gene expression, Computational Analysis