

A pageranking based method for identifying characteristic genes of a disease

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Abstract: Ranking is an importance task in the research field of complex biological networks, including gene networks [11]. In this article, we propose a method for ranking the genes causing a specific type of disease, special characteristics of samples under a particular condition. Genes with the highest scores may be considered as the key factors leading to the development of disease type in the studied samples. The experience results on the gene expression data of two subtypes of Leukemia cancer disease, i.e., ALB and ALT for B-cells and T-cells are respectively showed.

Author Keywords: Feature set; Gene networks; Rank of genes

Index Keywords: Chlorine compounds; Gene expression; B-cells; Biological networks; Feature set; Gene expression data; Gene networks; International conferences; Key factors; Particular condition; Rank of genes; T-cells; Genes

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