Special Issue

Gene Clustering in Microbiological and Biotechnological Research

Message from the Guest Editor

With the advent of precision medicine where the patient treatments are selected based on the genetic understanding of their disease, it is important to know the relationship between genes beforehand. Gene pathways and gene regulatory networks have been constructed to describe the relationship between genes based on biological experiments, but their construction is still ongoing, and lots of genes are still to be studied to fully understand it. To address this issue, gene clustering has been used to group correlated genes together based on their expression level. Most existing literature clusters genes based on one type of omics data, ignoring useful information that can come from the other types. To achieve a better clustering structure, using omics data rather than using one type of omics data for clustering is desirable. This Special Issue tackles this important research question.

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