

AI Methods for Analyzing Microarray Data

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data-driven research in the life sciences, an area with a great need for advances, given the urgency associated with diseases. However, microarray data a

column is a sample and each element in the matrix is the expression level of a gene in a biological sample, where samples are instances a

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Dimension Reduction Approaches

Principal component analysis (PCA) is widely used for dimension reduction

treated. These patients continued t

used for testing. This process is repeated k times and the mean accuracy is reported. Unfortunately, some published studies have applied CV only partially, by applyi

interactions are essential to understand disease progression. Identifying the biologically meaningful inter

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Table 1: Some public online repositories of microarray data

Name of the repository	URL
ArrayExpress at the European Bioinformatics Institute	