

ANALYSIS OF IMPUTATION METHODS FOR MICROARRAY DATA

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Abstract

Missing values must be estimated before analysis of microarray data can occur. Here we describe three general viewpoints from which to impute missing values in microarrays: estimation based off information from within the gene with the missing value, information from within the entire E-array, and information from replicate E-arrays. We attempt to find the imputation method that will minimize bias and root mean squared error.