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Akram M. Almohalwas* (almoh1am@cmich.edu), 616 S. Pine St., Mt. Pleasant, MI 48858.

Nonparametric statistics applied on simulated data and some Gene Expression data. Preliminary report.

Most of the gene expression data have more variables than samples. This requires some data mining techniques in order to reduce the dimensionality of these data sets. Parametric as well as nonparametric statistics are used as weights to help in classifying classes of genetic diseases without restricting data to be normally distributed. Simulation study suggested that using nonparametric statistic one can classify genetic diseases with very high accuracy. Same results gained when nonparametric statistics applied to classify genetic diseases real data sets. (Received September 16, 2008)