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**Akram M Almohalwas\*** (almoh1am@cmich.edu), 210 S. Bradley St. Apt. 206, Mt. Pleasant, MI 48858. *Compound Covariate Predictor (CCP) Classification Technique Applied on More Than Two Groups Gene Expression data.* Preliminary report.

Many of the gene expression data have more than two groups with a large Variable to Samples ratio. This requires some data mining techniques 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 that has more than two groups using One Vs. All, and All Pairwise Combination to be able to correctly classify samples to the correct Cancer subclass. One can classify genetic cancer disease data with very high accuracy and very few number of genes. (Received September 21, 2009)