OYEKA DANIEL

BIO 620

Question; Write 2 paragraphs with a minimum of 5-10 sentences on the following techniques of normalization

* RMA normalization
* Mas 5.0 Normalization

Robust Multi-array Averaging normalization better known as RMA normalization is a microarray analysis technique used to interpret and annotate the data or results derived from experiments on RNA, DNA, and protein microarrays. This technique allows us to investigate the expression state and sometimes the function of many genes in an organism’s genome. RMA is a normalization procedure for microarrays that background corrects, normalizes, and summarizes the probe level information without the use of the information obtained in the MM probes. RMA uses a multi-chip model to normalize data giving marginal possibility of mismatch probes because their intensities are often higher than the match probes. RMA values are in log 2 units and have better precision and provide more consistent estimates for fold change.

Mas 5.0 Normalization is also a microarray analysis technique used in interpreting the data generated from experiments on DNA, RNA, and protein microarrays. Mas 5.0 normalization is one of the common techniques used in normalization. It normalizes each array independently and sequentially using data from mismatch probes to calculate a robust average based on subtracting mismatch probe value from match probe value. Mas 5.0 values are not directly comparable because they are not in log 2 units.