

# **“The Analysis of DNA Methylation Data Generated Using the Infinium Platform”**

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## **Abstract**

Today, Illumina’s BeadArray technology provides, for relatively low cost, a high-throughput platform to analyze DNA methylation at over 27000 genomic regions. In December 2010, Illumina will launch their new 450K array. I will describe the data generated by the Infinium platform, and compare and contrast its properties to microarray data for gene expression. The summary measure of DNA methylation is the proportion of total fluorescence signal due to methylated alleles. We discuss the implications of having data that are proportions, bounded by 0 and 1, when selecting variables for cluster analysis, or testing for differential DNA methylation.