Epigenetics has grabbed the attention of many researchers by providing new insights into cell differentiation and oncogenesis. These rapidly expanding studies examine how heritable factors that are not coded in the genomic DNA sequence itself regulate gene expression. Such factors include DNA methylation, chromatin remodeling due to histone modification, and even, in some cases, microRNA. The available experimental methods designed to discover and correlate these factors with the expression of specific genes of interest have evolved. However, many still suffer from issues of poor sensitivity and reliability, low-throughput, and unnecessary complexity. This seminar introduces advanced yet easy-to-use real-time PCR Array technologies offered by SABiosciences that analyze CpG island DNA methylation and microRNA expression profiles as well as chromatin immunoprecipitation fractions. Find out how you can easily perform real-time PCR-based epigenetics experiments in your cancer or stem cell research to better understand the molecular epigenetic mechanisms regulating your genes of interest.

Refreshments provided. For information please visit: HTTP://www.microarray.jhmi.edu/seminar