

Presentation title: Epigenomics: The many garments of the genome sequence

Abstract:

Epigenetic modifications are reversible modifications on the DNA that affect gene expression without changing the actual genome sequence. The spectrum of modifications range from DNA methylation, histone modification and nucleosome positioning to DNA packaging and chromatin organization in the three dimensional space. This presentation will highlight different assays and bioinformatic approaches used to query epigenetic modifications genome-wide as well as how these layers of information can be integrated into meaningful models.