

SBS Seminar Announcement

Chromatin and Transcription

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Abstract

Many distal transcription factor binding sites have been observed. Chromatin interactions can connect distal transcription factor binding sites with target gene promoters. In this talk, I will introduce Chromatin Interaction Analysis with Paired-End Tag sequencing (ChIA-PET), a next-generation sequencing-based method for identifying chromatin interactions between transcription factor binding sites on a genome-wide scale, and present the results of applications of ChIA-PET to estrogen receptor alpha-bound chromatin interactions in MCF-7 human breast cancer cells, as well as transcription-related chromatin interactions in five different human cancer cell lines. Together, our results suggest that chromatin interactions may be a major mechanism by which transcription regulation occurs in human cells.

Wednesday, 21 Mar 2013 4.00pm to 5.00pm SBS Classroom 1 (SBS-01n-33)

Host: Associate Professor Mu Yuguang