

2009 PMBB Research Symposium

Keynote Lecture

6:00-7:00 PM, April 24, 2009

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Title:

Histone variants and chromatin dynamics

Abstract:

The incorporation of a variant histone into a nucleosome can have a profound effect on its properties. Each of the conserved variants plays a unique role in eukarotic biology: The CenH3 variant determines centromere identity, the H3.3 variant marks epigenetic regulatory elements, and the H2A.Z variant helps to maintain promoter competence.

I will describe some of our recent studies using genome-wide profiling and other methods to explore the interplay between histone variants, centromere structure, transcriptional regulation and DNA methylation in plants and animals.