

THE JOHN LAWRENCE SEMINARS



"GENOME REGULATION BY LONG NONCODING RNAs"

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The discovery of extensive transcription of long noncoding RNAs (lncRNAs) provides an important new perspective on the centrality of RNA in gene regulation. I will discuss genome-scale strategies to discover and characterize lncRNAs. Genome-wide mapping of RNA secondary structures, termed the structurome, provides important clues to potential functions of regulatory RNAs. An emerging theme from multiple model systems is that lncRNAs form extensive networks of ribonucleoprotein (RNP) complexes with numerous chromatin regulators, and target these enzymatic activities to appropriate locations in the genome. Consistent with this notion, long noncoding RNAs can function as modular scaffolds to specify higher-order organization in RNP complexes and in chromatin states. The importance of these modes of regulation is underscored by the newly recognized roles of long RNAs in developmental patterning and cancer.

TUES., JAN. 26TH
4:00 P.M.

717 POTTER STREET
ROOM 141
BERKELEY LAB

HOST:
JOHN CONBOY

Schedule of Seminars: <http://johnlawrenceseminars.lbl.gov>
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