Chromatin Regulation And Dynamics English Edition By Anita Göndör

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May 21st, 2020 - articleosti 1379889 title chromatin anization regulates viral egress dynamics author aho vesa and myllys markko and ruokolainen visa and
Various types of DNA viruses are known to have histone variants as key players in chromatin structure and function. Histones are fundamental structural components of chromatin, and eukaryotic DNA is wound around an octamer of the core histones H2A, H2B, H3, and H4. Binding of linker histone H1 promotes higher-order chromatin organization. In addition to their structural role, histones impact chromatin function and dynamics by, for example, post-translational histone modifications or the presence of specific histone marks.

Eukaryotic genomes are condensed into chromatin fibers to fit over a meter of DNA within the limited volume of the nucleus. Chromatin assembly limits the accessibility of genomic sequences and creates inherent barriers for nuclear events such as transcription and DNA replication.

The dynamic regulation of chromatin involves four subfamilies of ATP-dependent nucleosome remodelling complexes: ISWI, SWI2, CHD, and SWITCH. These complexes have helicase, DNA binding, and ATPase activities and play crucial roles in chromatin organization and function.

Recent studies have revealed that chromatin and nuclear structures are important for the regulation of the eukaryotic nuclear function. Therefore, investigating the molecular mechanism of chromatin remodelling and regulation of nuclear structures is vital for understanding cellular processes.
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