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**Protein Complexes That Modify Chromatin**

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Chromatin dynamics is a consequence of protein complexes that modify histones, remove histone modifications, mobilize nucleosomes or stabilize nucleosomes. A wide variety of such complexes have now been described. Some are abundant and may play global roles, others are more rare and specialized for functions at discreet loci.

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### **Protein Complexes that Modify Chromatin | Jerry L. Workman ...**

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## **Protein complexes that modify chromatin (Book, 2003 ...**

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modify histones, remove histone modifications, mobilize nucleosomes or stabilize nucleosomes. A wide variety of such complexes have now been described.

### **Protein Complexes that Modify Chromatin (Current Topics in ...**

Boundary proteins are believed to function by recruiting chromatin-modifying enzymes that in turn modify nucleosomes and alter the underlying chromatin substrate to a state that is unfavorable for the binding of the Sir proteins, thereby blocking the propagation of heterochromatin.

### **Barrier Proteins Remodel and Modify Chromatin To Restrict ...**

Access to nucleosomal DNA is governed by two major classes of protein complexes: Covalent histone-modifying complexes. ATP-dependent chromatin remodeling complexes. Covalent histone-

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modifying complexes. Specific protein complexes, known as histone-modifying complexes catalyze addition or removal of various chemical elements on histones.

### **Chromatin remodeling - Wikipedia**

Chromatin is the complex of genomic DNA and associated proteins in the nucleus. This higher ordered structure of DNA allows cells to package their DNA, provides a scaffold for cell division, and enables control of gene expression.

### **Chromatin | Life Science Research | Merck**

Chromatin dynamics is a consequence of protein complexes that modify histones, remove histone modifications, mobilize nucleosomes or stabilize nucleosomes. A wide variety of such complexes have now been described. Some are abundant and may play global roles, others are more rare and specialized for functions at discreet loci.

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### **Protein Complexes That Modify Chromatin: Workman ...**

The major structures in DNA compaction: DNA, the nucleosome, the 10 nm beads on a string fibre, the 30 nm chromatin fibre and the metaphase chromosome. Chromatin is a complex of DNA and protein found in eukaryotic cells. Its primary function is packaging long DNA molecules into more compact, denser structures.

### **Chromatin - Wikipedia**

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proteins are determinants of centromere function --HPI

complexes and heterochromatin assembly --SMC protein

complexes and the maintenance of chromosome integrity

--Selective gene regulation by SWI/SNF-related chromatin ...

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that the MSL1 and MSL2 proteins bind to chromatin but it is the incorporation of the roXRNAs into the complex that somehow alters the binding specificity of the MSL1/MSL2 proteins to recognise sites on the X chromosome.

### **How do ncRNAs guide chromatin-modifying complexes to ...**

Indeed chromatin is so fluid that even maintaining gene quiescence is an active process and is tightly regulated. Chromatin dynamics is a consequence of protein complexes that modify histones, remove histone modifications, mobilize nucleosomes or stabilize nucleosomes. A wide variety of such complexes have now been described.

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Chromatin is a highly organized complex of DNA and proteins and is a principal component of the cell nucleus. Histone proteins help organize DNA into structural units called nucleosomes, which are then assembled into a compact structure (chromatin) and eventually into very large, high-order structures (chromosomes).

## **Chromatin - an overview | ScienceDirect Topics**

FIGURE 1. Incorporation of actin and Arps in chromatin-modifying complexes. The chromatin remodeling complexes INO80, SWR1, SWI/SNF, and RSC, as well as the histone acetyltransferase NuA4, each contain a combination of actin and/or actin-related proteins (Arps) as important stoichiometric subunits.

## **The Nature of Actin-Family Proteins in Chromatin-Modifying ...**

In recent years, researchers have discovered a great deal about

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chromatin remodeling, including the roles that different protein complexes, histone variants, and biochemical modifications play in ...

### **Chromatin Remodeling in Eukaryotes | Learn Science at Scitable**

Many of these proteins had been previously reported to interact with each other directly or indirectly (Fig. 3 B). TRIM28 assembles into a multiprotein complex containing HDAC1 and KDM1A (16), and ZFP198 stabilizes the repressive KDM1A-CoREST-HDAC1 complex on chromatin (17).

### **Methylation-directed glycosylation of chromatin factors**

...

The team showed that cohesin, a protein complex with a major role in organizing chromatin, is a key player in forming new loops in chromatin across long antibody genes.

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