

## DNA Methylation



### DNA Methyltransferases

DNMT1, MGMT  
DNMT3A, PARP  
DNMT3B

### DNA Demethylases

TET1  
TET2  
TET3

## Histone Methylation



**Histone Methyltransferases**  
DNMT, DOT1L, PRMT  
KMT1C/G9a, EZH2  
SMYD2, COMT, SUV39H1

### Histone Demethylases

KDM1A/LSD1  
KDM2/7/UHRF1  
KDM3/JARID  
KDM3UHRF2  
KDM4/JARID2  
KDM5B/JARID3  
KDM6A/UTX

### Bromodomains

BET, BRD1  
BRD2, BRD3  
BRD4, BRDT

## Histone Phosphorylation



### Serine/Threonine Kinases

Fim, Aurora Kinase  
PKC, JNK, Haspin  
MSK1/2, ATM, ATR  
AMPK, MST,

### Protein Phosphatases

PPP1R15A  
PPP2CA  
PPP2CB  
PPP1CCC

## Histone Acetylation



### Histone Acetyltransferases

SRC, CBP/p300, PCAF  
KAT5/Tip60, GCN522, AcH

### Histone Deacetylases

HDAC1, SIRT1  
HDAC2, SIRT2  
HDAC3, SIRT3  
HDAC4, SIRT4  
HDAC6, SIRT5  
HDAC7, SIRT6  
HDAC8, SIRT7  
HDAC9

# Epigenetics And Chromatin

**Yi-Tong Ma**



## **Epigenetics And Chromatin:**

## **Epigenetics And Chromatin** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Epigenetics And Chromatin**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry

These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  ${}^{208}_{87}\text{Fr} \rightarrow \text{b} \dots$