

# Genetics Final Exam 2023

What modification neutralizes the charges on histones and looses up the interactions between histones and DNA? - Answer- ACETYLATION

Two types of post-transcriptional modifications that take place in the mRNA of eukaryotes - Answer- the addition of a CAP at the 5' end of the transcript and the addition of a POLY A sequence at the 3' end of the message

Nucleic acid blotting is widely used in recombinant DNA technology. In a Southern blot one generally - Answer- Hybridizes filter-bound DNA with DNA probe

Assembly of basal transcription factors begins at the \_\_\_\_\_ sequence in the promoter. - Answer- TATA or "TATA box"

All of the following may result from promoter mutations except:

- (A) Decreased affinity for RNA polymerase
- (B) Increased affinity for RNA polymerase
- (C) Mutant RNA polymerase
- (D) Unregulated transcription
- (E) A new phenotype - Answer- (C) Mutant RNA polymerase

Imprinting is DNA modification in gametogenesis that effects gene expression in the zygote. - Answer- Occurs in the GERM line, accompanied by HEAVY METHYLATION. Once imprinted on, a SILENCED gene remains inactivated during EMBRYOGENESIS.

RNA interference (RNAi) - Answer- Triggers DEGRADATION of RNA transcripts containing homologous sequences

Consider a eukaryotic transcriptional activator protein that binds to an enhance sequence and promotes transcription. What change in regulation would you expect from a duplication in which several copies of the enhancer were present instead of just one? - Answer- INCREASED TRANSCRIPTION

Which of the following enzymes synthesizes DNA from a single stranded RNA template?

- (A) Reverse Transcriptase
- (B) DNA polymerase
- (C) RNA polymerase
- (D) Ligase
- (E) Endonuclease - Answer- (A) REVERSE TRANSCRIPTASE

A genetic characteristic often associated with mutations caused by insertion of a transposable element is \_\_\_\_\_. - Answer- (B) INSTABILITY \*\*\*\*add definition

# Genetics Final Exam Practice

**SJ Ball**



## **Genetics Final Exam Practice:**

## Decoding **Genetics Final Exam Practice**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Genetics Final Exam Practice**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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