

Name: _____

Date: _____

Quiz name: Q10_DS

1. Down's syndrome occurs due to
- (A) an extra copy of chromosome 21 in every cell of the body
 - (B) an extra copy of chromosome 21 in some cells of the body
 - (C) duplication of part of chromosome 21 onto another chromosome
 - (D) All of the above
 - (E) A and B
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2. If a chromosome is duplicated in humans then by simple gene dosage the genes on the duplicated chromosome would be expressed
- (A) 200% of normal levels
 - (B) 300% of normal levels
 - (C) 150% of normal levels
 - (D) 75% of normal levels
 - (E) none of the above
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3. Chromosome duplication only effects genes
- (A) on the duplicated chromosome
 - (B) on nearby chromosomes
 - (C) on the duplicated chromosome primarily but also genes on any other chromosome
 - (D) A and B
 - (E) None of the above
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4. HMGN1 is thought to more generally effect gene expression by
- (A) Histone modification
 - (B) Chromatin rearrangement
 - (C) repression of gene expression on chromosome 21
 - (D) repression of gene expression on multiple chromosomes
 - (E) A, B and D
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5. Mouse models of Down's Syndrome are deficient because mice don't have the same number of chromosomes as humans
- (A) True
 - (B) False