Molecular Genetics Exam 1 | Questions & Answers (100% Correct)

What was Miescher's contribution to the early study of DNA? - ANSWER- extracted "nuclein" (DNA) from the nuclei of human white blood cells "nuclein" is weakly acidic and phosphorous- rich

What was Feulgen's contribution to the early study of DNA? - ANSWER- localized "nuclein" almost exclusively within the chromosomes

What is epigenetics/"noisy development"? - ANSWER- environment has huge influence on gene expression

What are the three components of a nucleotide? - ANSWER- 1) phosphate group 2) deoxyribose

nitrogenous base

Which nitrogenous bases are purines and which are pyrimidines? - ANSWER- Purines - adenine, guanine

Pyrimidines - cytosine, thymine

Which way does B-form DNA spiral? Z-form? Which is the 'normal,' functional type usually found in vivo? - ANSWER- B-form spirals to the right and is the type most often found in vivo.

Z-form spirals to the left and is found mostly in vitro.

What are the phosphodiester bonds in the DNA backbone like? - ANSWER- One bond is between phosphate and the 5' carbon of a sugar; the next bond is between phosphate and the 3' carbon of a sugar.

What are the bonds between nitrogenous bases like? - ANSWER- Hydrogen bonds A has two bonds to T C has three bonds to G

What is a gene? - ANSWER- a region of DNA capable of being transcribed into a functional RNA with correct temporal and spatial expression

What is the regulatory region of a gene? - ANSWER- contains specific DNA sequences that control the expression of the gene (transcription initiation, etc.)

What is the coding region of a gene? What is it also known as? - ANSWER- contains information for the gene product; also known as an exon

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