

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
3) 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

Answers For Molecular Genetics Section 3

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Answers For Molecular Genetics Section 3:

BRS Biochemistry, Molecular Biology, and Genetics Michael A. Lieberman, Emma C. Schoch, 2024-12-18 Practical approachable and perfect for today's busy medical students and practitioners BRS Biochemistry Molecular Biology and Genetics 8th Edition provides a comprehensive yet concise review to help ensure excellence on class exams and the USMLE Step 1 The renowned Board Review Series outline format offers efficient content review enhanced by key learning aids clinical correlations and USMLE style questions to reinforce understanding and test preparation Aligned with recent changes in medical education and board exams this updated edition emphasizes clinically relevant information to boost confidence and support a smooth transition to medical practice

In Mendel's Mirror Philip Kitcher, 2003-03-27 Philip Kitcher is one of the leading figures in the philosophy of science today Here he collects for the first time many of his published articles on the philosophy of biology spanning from the mid 1980's to the present The book's title refers to Gregor Mendel an Augustinian monk who was one of the first scientists to develop a theory of heredity Mendel's work has been deeply influential to our understanding of our selves and our world just as the study of genetics today will have a profound and long term impact on future scientific research Kitcher's articles cover a broad range of topics with similar philosophical and social significance sociobiology evolutionary psychology species race altruism genetic determinism and the rebirth of creationism in Intelligent Design Kitcher's work on the intersection of biology and the philosophy of science is both unprecedented and wide ranging and will appeal not only to philosophers of science but to scholars and students across disciplines

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