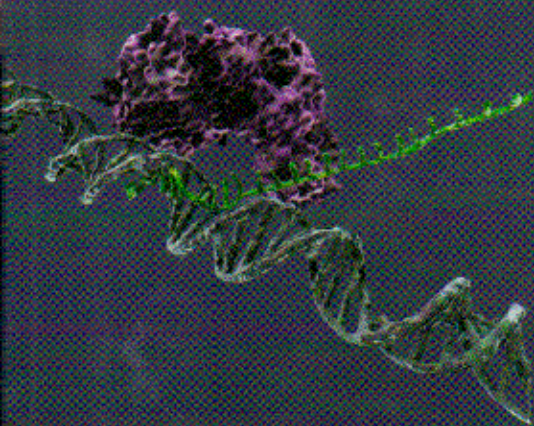




ABOUT THE COVER

CRISPR-Cas9 and target DNA. The ability to precisely edit the sequence within the genome of a living cell has become a reality via the engineering of a natural bacterial defense mechanism. The CRISPR-Cas9 complex is composed of an endonuclease (Cas9, purple) and an RNA (derived from the CRISPR locus, green) that guides Cas9 to a specific genomic locus by complementary base pairing. At the target locus, Cas9 creates a double-strand DNA break. The natural DNA repair system in the organism is then used to repair the break using a template that directs the incorporation of nucleotides chosen by the geneticist.

ABOUT THE BOOK

Genetic Analysis, Third Edition, takes an integrated approach that helps contextualize three core challenges of learning genetics: solving problems, understanding the connection between traditional genetics models and more modern approaches, and understanding evolution. The third edition provides a new emphasis on applications to human genetics, enhanced problem-solving guidance, and questions embedded in figure captions to help students learn from illustrations.

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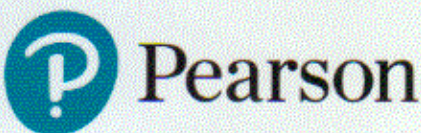
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