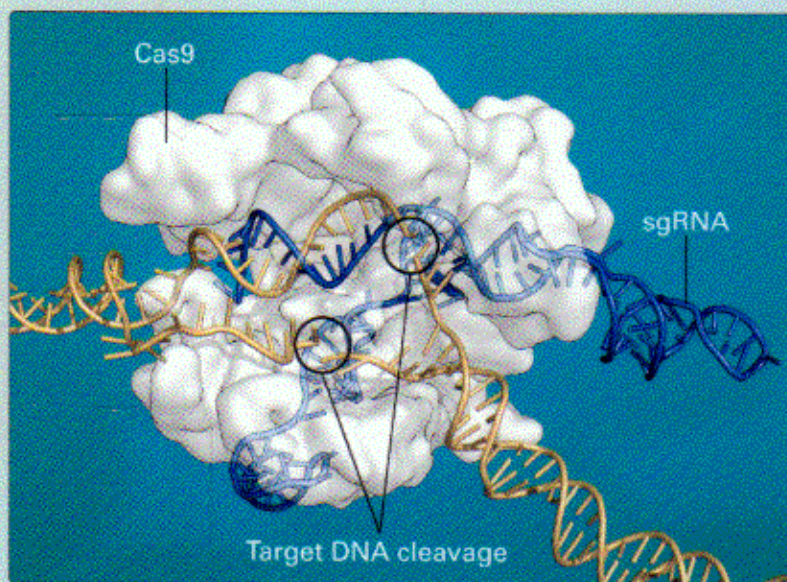


ABOUT THE COVER

An artistic representation of genome editing by the CRISPR-Cas system based on X-ray crystallography data at 3.4Å resolution. The Cas9 nuclease (white) is shown cutting a target DNA sequence (gold) that is complementary to a single guide RNA (sgRNA; blue). The HNH nuclease domain of Cas9 has been removed to provide a clearer view of the sgRNA/DNA interactions that guide sequence-specific DNA cleavage. CRISPR-Cas was originally identified as an anti-viral defense mechanism in bacteria, and has since been adapted as a customizable genome-editing tool. CRISPR-Cas and genome editing are the focus of Special Topics in Modern Genetics Chapter 1.



ABOUT THE BOOK

Concepts of Genetics, Twelfth Edition, emphasizes the fundamental concepts of genetics while exploring modern techniques and applications of genetic analysis. This edition has been extensively updated with increased coverage of CRISPR-Cas, genomics, epigenetics, and ethical issues.

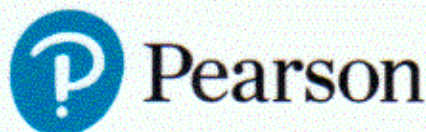
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