

Genetics From Genes To Genomes 6th Edition

Hartwell Test Bank

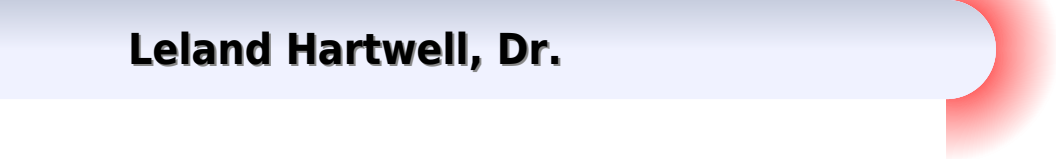
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Chapter 1 Genetics: The Study of Biological Information

- 1) How does DNA structure relate to its function?
 - The order of nucleotides in a DNA strand specifies the order of amino acids in a protein.
- 2) What is a difference between the structure of DNA and proteins?
 - DNA is composed of nucleotides and proteins are composed of amino acids.
- 3) A genome can be best described as
 - the DNA in all chromosomes in a cell.
- 4) What is the difference between the function of DNA and the function of proteins?
 - DNA stores genetic information and proteins perform most cellular functions.
- 5) Which statement supports the theory that all organisms are related?
 - The genetic code is almost universal.
- 6) New genes are thought to arise by which mechanism?
 - Gene duplication followed by divergence due to mutation.
- 7) What is the most likely way a mutation in one gene can convert one body part to another?
 - The mutated gene encodes a protein that affects the expression of many other genes.
- 8) A recent technical advancement that has accelerated the study of genomes is the ability to
 - sequence large complex genomes rapidly and inexpensively.
- 9) What is the difference between genetic dissection and genome sequencing?
 - Genetic dissection reveals information about one gene at a time and genome sequencing reveals information about all the genes in a genome at once.
- 10) Currently, what information can be obtained from sequencing an individual's genome?
 - Information about gene variants that predispose a person to a disease, such as cancer.
- 11) Which is *not* a potential problem of allowing the genomic sequences of individuals to become widely available?
 - Advances leading to healthier lives for some people.

Study Guide For Hartwell Genetics

Leland Hartwell, Dr.



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disciplines Specific topics addressed in this book include cytology biochemistry cell fractionation and cell biology

Peterson's Annual Guides to Graduate Study, 1983 **Genetics** Ann Reynolds, 2000 Genetics Leland

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