

Chapter 16 Study Guide

1. Describe the genetic material of prokaryotes, eukaryotes, viruses and plasmid

a. Prokaryotes

- i. No nucleus
- ii. Single circular chromosome composed of double stranded DNA
- iii. Code as 4×10^6 as in *E. coli*
- iv. Codes for 3000 genes

b. Eukaryotes

- i. Located in the nucleus
- ii. Nuclear envelope separates it from the rest of the cell
- iii. Eukaryotic DNA is linear and distributed in more than one chromosome
- iv. DNA is bound to proteins (Histones & nonhistones) = protein DNA complex called chromatin
- v. Haploid human nucleus
 1. Egg
 2. Sperm
- vi. 3×10^9 bp
- vii. Diploid cells in somatic cells contain 6×10^9
- viii. Codes for 22,000-33,000 genes
- ix. Human DNA localized in 46 chromosomes
- x. Measures about 6 ft

c. Viruses

- i. Infectious
- ii. DNA (smallpox, chicken pox, papilloma virus, herpes virus)
- iii. RNA (AIDS, Influenza, SARS, Ebola)
- iv. Contains proteins and protein coat
- v. Lack system for replication, production of RNA and synthesis of proteins
- vi. In order to infect other cells, and sue their DNA, RNA and protein synthesizing machinery to reproduce
- vii. Infect both eukaryotic and prokaryotic cells

d. Plasmids

Viruses And Prokaryotes Study Guide

G Thomas



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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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