

## Ch. 8 (Microbial Genetics):

### Be able to define the following terms:

Chromosome	Mutant strain	Replication
Competent	Mutation	Traits
Constitutive genes	Phenotype	Transcription
Gene	Plasmid	Transfection
Genetics	Polyribosome	Translation
Genome	Recombinant	Wild type strain
Genotype	Recombination	
Mutagen	Regulatory genes	

### Know the following concepts:

1. Be prepared to differentiate the genomic makeup of eukaryotes, prokaryotes and viruses
2. Be familiar with the structure of DNA and RNA (purines, pyrimidines, nucleotides, base pairing rules, antiparallel structure) (helpful self-review)
3. Be prepared to describe the process of replication and be able to name each of the enzymes involved and describe their function (helpful self-review)
4. Be prepared to describe the process of transcription and translation, including the name of each enzyme and describe their function (helpful self-review)
5. Know the structure and function of the bacterial chromosome as compared to eukaryotic (i.e. histone like proteins, circular, no introns, found in nucleoid region of cytoplasm)
6. Be able to differentiate the function of regulatory genes vs. structural genes
7. Be prepared to describe a polyribosomal complex and why this only occurs in bacteria
8. Be able to state some of the differences between bacteria and eukaryotes during transcription and translation (see table)
9. Have an understanding of prokaryotic cell efficiency as it pertains to pre and post translational regulation (repression and induction)
10. Be able to describe the functioning of an inducible operon and a repressible operon (Use the Lac operon as your example of an inducible operon and the Tryptophan operon as your example of a repressible operon)
11. Know the four major components of an operon and their functions (regulator, control locus (promotor and operator) and structural locus)
12. Have an understanding of what activates the lac operon and what deactivates the trp operon
13. Be able to differentiate plasmids from chromosomal fragments
14. Be able to describe the processes of transformation, conjugation and transduction
15. Be able to describe the fertility "F" factor and state what it codes for
16. Be able to discuss the difference between an F+ cell and an F- cell and know the phenotypic changes that happen to the F- cell following conjugation
17. Be able to describe the factors that make a cell a High frequency recombinant (Hfr) donor

# Microbiology Genetics Study Guide

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## **Microbiology Genetics Study Guide:**

Study Guide [to] Microbiology, Principles & Applications, Third Edition [by] Jacquelyn G. Black Jacquelyn G. Black, George Allan Wistreich, Black, 1996    **Study Guide to Accompany Ronald M. Atlas' Microbiology** Harry E. Peery, 1984    **Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich, 1984    Study Guide to Accompany the Microbial Perspective Frank Whitehouse, 1982    **Peterson's Annual Guides to Graduate Study**, 1983

**Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology** Noel R. Krieg, Michael Joseph Pelczar, 1986

Current Catalog National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965-70

*Research in Education*, 1972    **Resources in Education**, 1972    *Peterson's Guide to Graduate Programs in the Biological Sciences* 1997 Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it's been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master's doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology

Guide to Graduate Studies in Great Britain Jenny Knight, 1974    **Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences**, 1990    *Schaum's Outline of Theory and Problems of Microbiology* I. Edward Alcamo, 1998 Containing more than 2 500 self test questions and dozens of visual aids this guide avoids jargon while helping you quickly expand your vocabulary of essential terminology No matter what kind of student you are solo in a class undergrad graduate or in health sciences school it can help you conquer microbiology    *Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville, 2004 Pommerville biology and microbiology Glendale Community College provides new infectious disease coverage with material on mad cow disease SARS and West Nile fever plus a new chapter on genetic engineering and bacterial genomics for this seventh edition of a text for introductory microbiology courses that emphasize the biology of human disease    *The Annual Guides to Graduate Study*, 1974    *Study Guide for Life on Earth* Carl S. Pike, 1973    **Microbiology** Gerard J. Tortora, 1995-04    *Manual of Veterinary Microbiology* Gustave Mosselman, E. Li'enaux, 1895    **Manual of Environmental Microbiology** Christon J. Hurst, Ronald L. Crawford, 2002 The new second edition of this essential manual summarizes the information and knowledge of environmental microbiology in a single source It details the natural fate of microorganisms in the environment as well as the intentional attempts to eliminate from the environment microorganisms that are pathogenic to humans or to plants and animals The basic principles of environmental

microbiology and general analytical methodologies common across the range of the environments covered are presented first. The core sections are structured with regard to the type of environmental medium being discussed. This landmark effort defines the study of environmental microbiology as we know it today and serve as an essential contribution to the literature.

*Principles of Microbiology* Ronald M. Atlas, 1995. Scientific study of microorganisms. Microbial physiology, cellular biology, Microbial genetics, molecular biology, Microbial replication and growth, Microorganisms and human diseases, Applied and environmental microbiology, Survey of microorganisms.

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