

## 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<sup>+</sup> cell and an F<sup>-</sup> cell and know the phenotypic changes that happen to the F<sup>-</sup> cell following conjugation
17. Be able to describe the factors that make a cell a High frequency recombinant (Hfr) donor

# Microbial Genetics Study Guide Answers

**Raúl J. Cano, Jaime S. Colomé**



## **Microbial Genetics Study Guide Answers:**

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**Microbiology (Questions and Answers), 5e** Purshotam Kaushik & Kirti Kaushik, 2022 Microbiology is an engaging textbook presenting balanced and comprehensive account of major areas of microbiology in the form of questions and answers This question answer approach to present complex topics and theories of microbiology regarding cellular and non cellular microorganisms microbial genetics and molecular biology in higher plants and animals makes the subject interesting and easily comprehensible for the students **Microbial Genetics** Sylwia Okoń, Beata Zimowska, Mahendra Rai, 2024-06-21 This comprehensive book explores both the fundamental and practical aspects of microbial genetics shedding light on viroids viruses phytoplasma bacteria fungi and protozoa Unveiling a fresh perspective the book tackles traditional taxonomical debates by embracing DNA based taxonomy offering a novel approach to understanding phylogeny within this microbe realm Furthermore it delves into the exciting realm of metagenomics revolutionizing the identification and classification of unculturable microorganisms Written by leading experts this essential reading material caters to students and researchers in Microbiology Genetics and Biotechnology IIT JAM Biotechnology [BT] Question Bank 3000+ Questions Based on Exam Format MCQ/NAT/Written Type DIWAKAR EDUCATION HUB, 2023-09-19 IIT JAM Code BT Practice Sets 3000 Question

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great importance Microbiology the branch of biology that studies microorganisms and their effects on humans is a key part of medical training curriculum Written by a top professor of microbiology and an experienced science writer this book is a basic microbiology course that can be understood by anyone including medical students professionals wanting to bone up on the subject and laypersons wanting to know about the topic Includes coverage on microbes and their relationship with each other the body's immune system infectious diseases biotechnology and bioterrorism **SSC Stenographer (Grade 'C' & 'D')**

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**Bacterial Genetics and Genomics** Lori A.S. Snyder, 2020-03-25 Our understanding of bacterial genetics has progressed as the genomics field has advanced Genetics and genomics complement and influence each other they are inseparable Under the novel insights from genetics and genomics once believed borders in biology start to fade biological knowledge of the bacterial world is being viewed under a new light and concepts are being redefined Species are difficult to delimit and relationships within and between groups of bacteria the whole concept of a tree of life is hotly debated when dealing with bacteria The DNA within bacterial cells contains a variety of features and signals that influence the diversity of the microbial world This text assumes readers have some knowledge of genetics and microbiology but acknowledges that it can be varied Therefore the book includes all of the information that readers need to know in order to understand the more advanced material in the book **Lactic Acid Bacteria: Genetics, Metabolism and Applications** W.N. Konings, O.P. Kuipers, J.H.J. Huis in 't Veld, 2013-03-09 In ancient times foods fermented with lactic acid bacteria already constituted an important part of the human diet From then on lactic acid bacteria have played an essential role in the preservation of food raw materials and have contributed to the nutritional organoleptic and health properties of human food products and animal feed The important function that lactic acid bacteria still have in the production of foods all over the world has resulted in a growing scientific interest in these micro organisms by academic research groups as well as by industry During the last 15 years this research has been stimulated by major internationally coordinated funding efforts that have resulted in a variety of important



scientific breakthroughs and have led to new applications Written by international experts in the field this issue of Antonie van Leeuwenhoek documents these developments with respect to genetics metabolism and the application of lactic acid bacteria for industrial and potential medical applications In this book the first complete genome of a lactic acid bacterium is presented The book will serve as a reference source and also as an indispensable source of information for further development and exploration of the field      *Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology* Noel R. Krieg, Michael Joseph Pelczar, 1986

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