

## 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

**Noel R. Krieg, Michael Joseph Pelczar**



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

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**Study Guide and Workbook for Genetics** Irwin Herman Herskowitz,1960      Modern Microbial Genetics Uldis N. Streips,Ronald E. Yasbin,2004-03-24 In accordance with its predecessor the completely revised and expanded Second Edition of Modern Microbial Genetics focuses on how bacteria and bacteriophage arrange and rearrange their genetic material through mutation evolution and genetic exchange to take optimal advantage of their environment The text is divided into three sections DNA Metabolism Genetic Response and Genetic Exchange The first addresses how DNA replicates repairs itself and recombines as well as how it may be manipulated The second section is devoted to how microorganisms interact with their environment including chapters on sporulation and stress shock and the final section contains the latest information on classic exchange mechanisms such as transformation and conjugation Chapters include Gene Expression and Its Regulation Single Stranded DNA Phages Genetic Tools for Dissecting Motility and Development of Myxococcus xanthus Molecular Mechanism of Quorum Sensing Transduction in Gram Negative Bacteria Genetic Approaches in Bacteria with No Natural Genetic Systems The editors also cultivate an attention to global regulatory systems throughout the book elucidating how certain genes and operons in bacteria defined as regulons network and cooperate to suit the needs of the bacterial cell With clear appreciation for the impact of molecular genomics this completely revised and updated edition proves that Modern Microbial Genetics remains the benchmark text in its field      Study Guide to Accompany Microbiology Raúl J. Cano,Jaime S. Colomé,1985-02      **MCQ's in Microbiology: Advanced** Balaram Mohapatra,Swati Pattnaik,D.K. Verma , Shirlata Landhanam , Jaya Chakraborty , Jyotirmayee Pradhan, Poulomi Sarkar ,2020-01-10 It is specifically designed to boost the cutting edge knowledge of students and improve their focus on the next generation developmental skills on Microbiology for making it as their carrier This book can bring a light for the students those are going to write in the CSIR UGC NET ICMR NET DBT JRF PG Combined entrance exams ICAR NET ASRB NET GATE SLET SAUs and other combined entrance examinations All the questions of this book are assembled from standard textbooks of microbiology covering all the area of microbiology The authors hope this book will surely assist the young minds to crack the examinations in a easy and simple way and will definitely useful to the researchers to clarify the doubts that often come during the research work We also request and welcome our judging audience readers to send their valuable suggestions for further improvement of this book      *NBDE Part I-Microbiology Specialty Review and Study Guide* Herbert Levin,2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate

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**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

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