Ch. 8 (Microbial Genetics):

Be able to define the following terms:

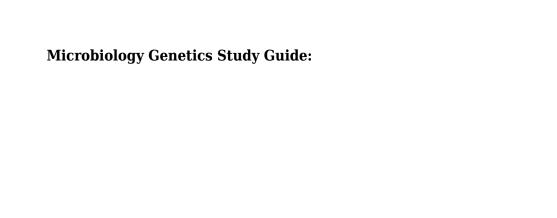
Chromosome Mutant strain Competent Mutation Constitutive genes Phenotype Gene Plasmid. Genetics. Polyribosome Genome Recombinant Recombination Genotype N/Turbalgein. Regulatory genes Replication Traits Transcription Transfection Translation Wild type strain

Know the following concepts:

- 1. Be prepared to differentiate the genomic makeup of eukaryotes, prokaryotes and viruses
- Be familiar with the structure of DNA and RNA (purines, pyrimidines, nucleotides, base pairing rules, antiparallel structure) (helpful self-review)
- 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)
- Be prepared to describe the process of transcription and translation, including the name of each enzyme and describe their function (helpful self-review)
- 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
- Be able to state some of the differences between bacteria and eukaryotes during transcription and translation (see table)
- 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)
- Know the four major components of an operon and their functions (regulator, control locus (promotor and operator) and structural locus)
- 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
- 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
- Be able to describe the factors that make a cell a High frequency recombinant (Hfr) donor

Microbiology Genetics Study Guide

Siddappa N.Byrareddy



Unveiling the Power of Verbal Art: An Mental Sojourn through Microbiology Genetics Study Guide

In a world inundated with screens and the cacophony of quick transmission, the profound power and mental resonance of verbal beauty frequently diminish into obscurity, eclipsed by the constant assault of sound and distractions. However, located within the lyrical pages of **Microbiology Genetics Study Guide**, a charming work of literary brilliance that impulses with natural feelings, lies an wonderful trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this magical opus courses viewers on a psychological odyssey, softly exposing the latent potential and profound impact embedded within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is central subjects, dissect its fascinating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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