

LabeXchange - Genetic Engineering Study Guide

(Based on Lab eXchange Pathways)

Answer the following (BE SURE YOUR ANSWERS ARE IN A DIFFERENT COLOR FONT):

1. What are plasmids and what are their sizes? A plasmid is a small, extrachromosomal DNA molecule within a cell that is physically separated from chromosomal DNA and can replicate independently. The size of the plasmid varies from 1 to over 200 kbp
2. What are the 3 characteristics of plasmids that make them ideal vectors for genetic engineering? Plasmids have multiple cloning sites, bacteriophage promoters, and selectable markers for antibiotic resistance
3. What is the *ori* site on a plasmid? The *ori* is the place where DNA replication begins, enabling a plasmid to reproduce itself as it must to survive within cells
4. What does the promoter sequence do in a plasmid? The sequence of the promoter region controls the binding of the RNA polymerase and transcription factors
5. Why is having an antibiotic-resistant gene important in a plasmid? Adding an antibiotic resistance gene to the plasmid allows a scientist to easily detect plasmid-containing bacteria when the cells are grown on selective media and provides those bacteria with pressure to keep your plasmid.
6. What is bacterial conjugation? Bacterial conjugation is the transfer of genetic material between bacterial cells by direct cell-to-cell contact or by a bridge-like connection between two cells.
7. Identify A and B in the image below: B=Plasmids A=DNA



8. What is a "bacteriophage"? A virus that parasitizes a bacterium by infecting it and reproducing inside it.
9. Where do restriction enzymes come from? Restriction enzymes are found in bacteria. They recognize and bind to specific sequences of DNA, called restriction sites
10. What is the recognition site for EcoRI? 5'-GAATTC-3' 3'-CTTAAG-5'

Genetic Technology Study Guide

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depth exploration of the fundamental concepts of basic sciences including biochemistry molecular biology anatomy physiology neuroscience psychology and genetics You will also delve into the intricacies of clinical medicine gaining a deeper understanding of the respiratory cardiovascular gastrointestinal renal genitourinary musculoskeletal and integumentary systems Beyond the foundational knowledge this guide delves into the complexities of pathology uncovering the mechanisms underlying disease processes from cellular abnormalities and infectious agents to neoplastic growths and genetic disorders You will also master the intricacies of pharmacology gaining a comprehensive understanding of drug actions pharmacokinetics and pharmacodynamics while learning to navigate adverse drug reactions and drug interactions with ease Furthermore this guide equips you with essential clinical skills guiding you through the art of patient history taking conducting physical examinations interpreting diagnostic tests and developing effective treatment plans You will also learn how to navigate clinical vignettes effectively deciphering complex scenarios identifying key findings formulating differential diagnoses and reaching accurate conclusions To ensure your success this guide provides invaluable test taking strategies helping you master the art of answering multiple choice questions manage your time effectively handle stress and anxiety and avoid common pitfalls With a focus on building perseverance resilience and a strong support network this guide empowers you to embrace the journey towards the USMLE Step 1 exam with confidence and determination As you embark on this transformative journey remember that success is not merely about accumulating knowledge it is about cultivating a mindset of resilience adaptability and unwavering dedication This guide will be your trusted companion providing you with the tools and strategies you need to conquer the USMLE Step 1 exam and unlock the gateway to a fulfilling career in medicine If you like this book write a review

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Summary & Study Guide - The Gene Lee Tang, 2017-02-01 Why Do Genetics Matter to You This book is a summary of The Gene An Intimate History by Siddhartha Mukherjee Siddhartha Mukherjee's book chronicles the fascinating history of discovery in classical genetics molecular genetics genetic engineering and the human genome project It shows How our genes and the environment define our identities and personalities How genetic engineering technologies can be used to manufacture drugs safely and How genetic diagnosis and gene therapies can be used to treat complex genetic diseases Genetics is at the frontiers of science today and its impact is often misunderstood The public is often misled by science fiction and remains largely in the dark as to the actual consequences of advances in the biotechnology and genetic engineering industries Studying genetics can help you understand the economic social and ethical implications of these technologies Read this book to understand the key concepts of genetics and the economic social and ethical implications of the genetic engineering technologies This guide includes Book

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