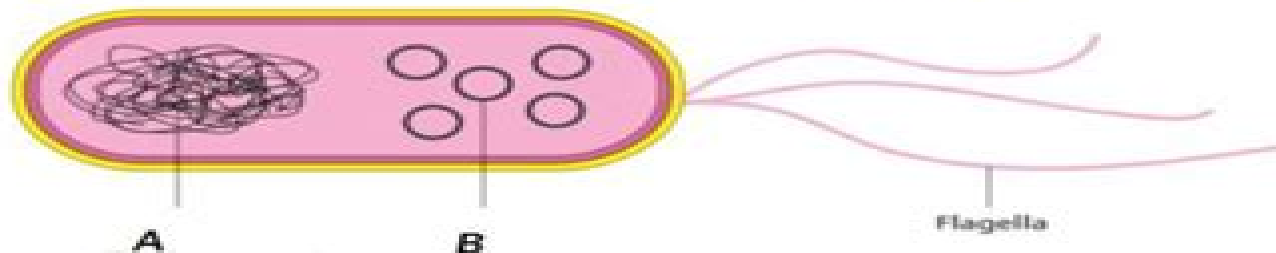


# LabeXchange - Genetic Engineering Study Guide

(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'

# Answers For Study Guide For Genetic Engineering

**Theodore W. Pohrte, L. Jack Pierce**



## Answers For Study Guide For Genetic Engineering:

*Study Guide and Solutions Manual for Students, to Accompany General Genetics* David Freifelder, Leon A. Snyder, 1985

Essential Genetics Daniel L. Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth Edition of *Essential Genetics* is designed for the shorter less comprehensive introductory course in genetics The text is written in a clear lively and concise manner and includes many special features that make the book user friendly Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission mutation expression and regulation The text also helps students develop skills in problem solving achieve a sense of the social and historical context in which genetics has developed and become aware of the genetic resources and information available through the Internet

Study Guide and Full Solutions Manual Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook

**SCM Studyguide to Science and Religion** Jean Dorricott, 2005 This undergraduate level one textbook provides an introduction to the apparently incompatible subjects of religion and science Each chapter contains references for finding out more about particular arguments be they scientific or religious areas for discussion Where particularly difficult concepts are referred to in the body of the text further explanations are provided in boxed sections

*Study Guide and Solutions Manual* Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

*Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston, Denniston Katherine, 2006

*Essential Genetics*, **Essential Genetics** Daniel Hartl, 2011 Updated to reflect the latest discoveries in the field the Fifth Edition of Hartl's classic text provides an accessible student friendly introduction to contemporary genetics Designed for the shorter less comprehensive introductory course

*Essential Genetics A Genomic Perspective* Fifth Edition includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation expression and regulation New and updated sections on genetic analysis molecular genetics probability in genetics and pathogenicity islands ensure that students are kept up to date on current key topics The text also provides students with a sense of the social and historical context in which genetics has developed The updated companion web site provides numerous study tools such as animated flashcards crosswords practice quizzes and more New and expanded end of chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in class discussion

*Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today* Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all

of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application *Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology* Noel R. Krieg, Michael Joseph Pelczar, 1986 Study Guide [to] Microbiology, Principles & Applications, Third Edition [by] Jacquelyn G. Black Jacquelyn G. Black, George Allan Wistreich, Black, 1996

*Study Guide for Man, Nature, and Society* Theodore W. Pohrte, L. Jack Pierce, 1975 **ESL (ELL) Literacy Instruction** Lee Gunderson, Reginald Arthur D'Silva, Dennis Murphy Odo, 2013-07-31 ESL ELL Literacy Instruction provides both ESL and mainstream teachers with the background and expertise necessary to plan and implement reading programs that match the particular needs and abilities of their students Comprehensive and research based it applies current ESL and reading research and theory to practice Designed for use by pre service and in service teachers at all levels from kindergarten to adult learners it explains different models of literacy instruction from systematic phonics to whole language instruction and includes specific teaching methods within each model Multicultural issues are addressed Instructional matrices that account for the wide variations in ESL ELL student backgrounds and abilities form the pedagogical basis of the approach described in the text The matrices based on extensive research involve two easily measured variables that predict what programs and approaches will be comprehensible for learners who vary in age literacy background English ability and program needs Readers are encouraged to develop their own teaching strategies within their own instructional models **Study Guide** George Karleskint, 1991 *Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications* Larry G. Sellers, 2000 **Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990 **Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich, 1984 *Study Guide to Accompany Biology, the Science of Life, Third Edition* W. J. Leverich, 1991 **Study Guide Essential Biology with Physiology** Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website **Study Guide** Kelly Bouas-Henry, 2005 By Kelly Bouas Henry Missouri Western State College and Douglas A Bernstein the Study Guide employs numerous techniques to help students learn Each chapter including the optional Industrial Organizational Psychology chapter contains a detailed outline a key terms section that presents fresh examples and learning aids plus a fill in the blank test learning objectives a concepts and exercises section that shows students how to apply their knowledge of psychology to everyday issues and concerns a critical thinking exercise and personal learning activities In addition each chapter concludes with a two part self quiz consisting of 40 multiple choice questions An answer key tells the student not only which response is correct but also why each of the other choices is wrong and quiz analysis tables enable students to track patterns to their wrong answers either by topic or by type of question definition comprehension or

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