

PROBLEM SET: DNA Replication, Transcription & Translation

These problems can be used AS ASSESSMENT and OF ASSESSMENT of learning. There are too many concepts that must be learned before students can successfully investigate and solve these problems on their own.

1. A DNA template strand has the following base sequence:

5' TTACACGTGGACTGAGGACCTCTCCAT 3'

- a) What is the complementary strand of this template?

AATGTGCACCAGACTCCTGGAGAGGTA

- b) If the template is the sense strand, what is the mRNA it would produce?

AAUGUGCACCAGACUCCUGGAGAGGUA

- c) State 3 ways this mRNA differs from DNA.

mRNA is single stranded, DNA is double stranded.

mRNA has the sugar ribose, DNA has the sugar deoxyribose.

mRNA has the nitrogen base Uracil instead of Thymine that DNA has.

2. A mutation has occurred in the DNA template in #1, the sequence is now:

5' TTACACGTGGACTGAGGATCACTCCAT 3'

- a) This mutated template is still the sense strand, what is the mRNA it would produce?

UUACACGUGGACUGAGGAUACACUCCAU

- b) What is the polypeptide sequence that the DNA in #1 would produce?

TTA-CAC-GTG-GAC-TGA-GGA-TCA-CTC-CAT

Leu-His-Val-Asp-Stop-Gly-Ser-Leu-His

- c) What is the polypeptide sequence that this mutated DNA would produce?

UUA-CAC-GUG-GAC-UGA-GGA-UCA-CUC-CAU

Leu-His-Val-Asp-Stop-Gly-Ser-Leu-His

- d) What do you think would happen as a result of this mutation?

Sickle-cell disease and Cancer are both results of mutations.

Transcription Translation Problem Set

**Joel J. Mintzes, James H.
Wandersee, Joseph D. Novak**



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Quantitative Biosciences Joshua S. Weitz, 2024-03-05 A hands on approach to quantitative reasoning in the life sciences Quantitative Biosciences establishes the quantitative principles of how living systems work across scales drawing on classic and modern discoveries to present a case study approach that links mechanisms models and measurements Each case study is organized around a central question in the life sciences Are mutations dependent on selection How do cells respond to fluctuating signals in the environment How do organisms move in flocks given local sensing How does the size of an epidemic depend on its initial speed of spread Each question provides the basis for introducing landmark advances in the life sciences while teaching students whether from the life sciences physics computational sciences engineering or mathematics how to reason quantitatively about living systems given uncertainty Draws on real world case studies in molecular and cellular biosciences organismal behavior and physiology and populations and ecological communities Stand alone lab guides available in Python R and MATLAB help students move from learning in the classroom to doing research in practice Homework exercises build on the lab guides emphasizing computational model development and analysis rather than pencil and paper derivations Suitable for capstone undergraduate classes foundational graduate classes or as part of interdisciplinary courses for students from quantitative backgrounds Can be used as part of conventional flipped or hybrid instruction formats Additional materials available to instructors including lesson plans and homework solutions

Primer of Genetic Analysis James N. Thompson, 1997 A student tested study aid this primer provides guided instruction to the analysis and interpretation of genetic principles and problem solving *Primer of Genetic Analysis* James N. Thompson, Jr., Jenna J. Hellack, Gerald Braver, David S. Durica, 2007-10-01 An invaluable student tested study aid this primer first published in 2007 provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms A series of problems generally progressing from simple to more complex then allows students to test their understanding of the material Each question and answer is accompanied by detailed explanation This third edition includes additional problems in basic areas that often challenge students extended coverage in molecular biology and development an expanded glossary of terms and updated historical landmarks Students at all levels from beginning biologists and premedical students to graduates seeking a review of basic genetics will find this book a valuable aid It will complement the formal presentation in any genetics textbook or stand alone as a self paced review manual

AI Homework Mason Ross, AI, 2025-02-26 AI Homework explores the increasing role of AI assistants in higher education focusing on assignment completion plagiarism detection and the development of critical thinking skills It examines how AI tools are used by students the efficacy of AI in preventing academic dishonesty and whether AI enhances or hinders cognitive skills The book argues that while AI offers opportunities to improve academic work its uncritical adoption carries risks emphasizing the need for

ethical use and pedagogical innovation The book reveals intriguing insights such as the evolving strategies students employ to bypass AI driven plagiarism detection and how AI can be utilized to promote deeper engagement with course material Drawing upon surveys AI software analysis and case studies AI Homework presents a multidisciplinary perspective from cognitive science educational psychology and computer science It uniquely balances celebrating AI s potential with a critical assessment of its impact The book progresses logically beginning with an introduction that defines key terms and setting the stage for analysis It then delves into the impact of AI on assignment completion the strengths and limitations of plagiarism detection systems and the relationship between AI and critical thinking AI Homework provides practical recommendations for educators policymakers and students making it a valuable resource for anyone navigating the integration of AI in academia

Biology Trending Eli Minkoff, Jennifer K. Hood-DeGrenier, 2023-07-24 Biology Trending is a truly innovative introductory biology text Designed to combine the teaching of biological concepts within the context of current societal issues Biology Trending encourages introductory biology students to think critically about the role that science plays in their world This book features many current and relevant topics including sea level changes and ocean acidification CRISPR Cas9 opioid abuse Zika Ebola and COVID 19 threats to biodiversity and cancer immunotherapies It is accompanied by digital Instructor and Student Resources to support teaching and learning Key Features Adopts an issues approach to teaching introductory biology Up to date sections throughout including climate change CRISPR new hominids COVID 19 and new cancer therapies among many others Suitable for both major and nonmajor courses More succinct for ease in teaching and more affordable for students High quality illustrations help to elucidate key concepts This book is extended and enhanced through a range of digital resources that include Long form and open response self testing resources to test understanding and apply knowledge Visual simulations to demonstrate evolutionary processes Web links and bibliographic resources to expand knowledge Time saving instructor resources such as PowerPoint slides activity and assignment ideas and comprehensive lesson plans Related Titles Bard J Evolution The Origins and Mechanisms of Diversity ISBN 9780367357016 Prothero D Vertebrate Evolution From Origins to Dinosaurs and Beyond ISBN 9780367473167 Johnson N A Darwin s Reach 21st Century Applications of Evolutionary Biology ISBN 9781138587397

Teaching Science for Understanding Joel J. Mintzes, James H. Wandersee, Joseph D. Novak, 2005-02-21 Teaching Science for Understanding , **Biology Today** Eli C. Minkoff, Pamela J. Baker, 2001 Biology as a subject not only plays a major role within the scientific world but has broader implications that cross many boundaries This work takes a modern and innovative approach to teaching introductory biology it presents fundamental biological concepts within the context of current social issues How do scientists affect our society at large How are ethics and morals applied to the scientific world Why are we racing to complete the human genome project and who are we racing against How do economic disparities between people and nations influence habitat destruction Can plant science feed the world Are the causes of cancer more genetic or environmental The book seeks to help students think

critically about these questions and to explore and assess the role that science plays in their world **Genetics** Richard P. Nickerson,1990 This workbook provides a valuable supplement for introductory genetics courses Its self instructional format helps students to master basic concepts of genetics and improve problem solving skills while actively engaged in the learning process **Comparative Genomics** Nicholas H. Bergman,2007-11-29 This volume provides a collection of robust protocols for molecular biologists studying comparative genomics Given the tremendous increase in available biosequence data over the past ten years this volume is timely comprehensive and novel The volume is intended for molecular biologists biochemists and geneticists **The Emperor's New Mathematics** Catherine Jami,2011-12-01 In 1644 the Qing dynasty seized power in China Its Manchu elite were at first seen by most of their subjects as foreigners from beyond the Great Wall and the consolidation of Qing rule presented significant cultural and political problems as well as military challenges It was the Kangxi emperor r 1662 1722 who set the dynasty on a firm footing and one of his main stratagems to achieve this was the appropriation for imperial purposes of the scientific knowledge brought to China by the Jesuit mission 1582 1773 For almost two centuries the Jesuits put the sciences in the service of evangelization teaching and practising what came to be known as Western learning among Chinese scholars many of whom took an active interest in it After coming to the throne as a teenager Kangxi began his life long intervention in mathematical and scientific matters when he forced a return to the use of Western methods in official astronomy In middle life he studied astronomy musical theory and mathematics with Jesuits as his teachers In his last years he sponsored a great compilation covering these three disciplines and set several of his sons to work on this project All of this activity formed a vital part of his plan to establish Manchu authority over the Chinese This book explains why Kangxi made the sciences a tool for laying the foundations of empire and to show how as part of this process mathematics was reconstructed as a branch of imperial learning **Translation in Context** Andrew Chesterman,Natividad Gallardo San Salvador,Yves Gambier,2000-01-01 This title is a collection of contributions illustrating research interests and achievements in translation studies at the turn of the 21st century The contributions show how the context of translation has expanded to cover documentation techniques cultural and psychological factors computer tools ideological issues media translation and methodologies A total of 32 papers deal with aspects such as conceptual analysis in translation studies situational sociological and political factors and psychological and cognitive aspects of translation

BIOINFORMATICS: METHODS AND APPLICATIONS S. C. RASTOGI,NAMITA MENDIRATTA,PARAG RASTOGI,2013-05-22 Designed as a text for students and professionals pursuing careers in the fields of molecular biology pharmacy and bioinformatics the fourth edition continues to offer a fascinating and authoritative treatment of the entire spectrum of bioinformatics covering a wide range of high throughput technologies In this edition four new chapters are included and two chapters are updated As a student friendly text it embodies several pedagogic features such as detailed examples chapter end problems numerous tables a large number of diagrams flow charts a comprehensive glossary and an

up to date bibliography This book should prove an invaluable asset to students and researchers in the fields of bioinformatics biotechnology computer aided drug design information technology medical diagnostics molecular biology and pharmaceutical industry NEW TO THE FOURTH EDITION Includes four new chapters Introduction to Biological Databases Introduction to Phylogenetic Methods of Phylogenic analysis and RNA Predict Updates chapters on Information Search and Data Retrieval and Alignment of Multiple Sequences Incorporates Problem Sets containing more than 250 problems and Multiple Choice Questions so that students can test their knowledge and understanding Key Features State of the art technologies for gene identification molecular modeling and monitoring of cellular processes Data mining analysis classification interpretation and efficient structure determination of genomes and proteomes Importance of cell cycle for discovering new drug targets and their ligands Computer aided drug design and ADME Tox property prediction Companion website www.phindia.com/rastogi provides useful resources for the teachers as well as for the students

Conceptual Modeling Peter P. Chen,Jacky Akoka,Hannu Kangassalu,Bernhard Thalheim,2003-05-21 This volume contains a collection of selected papers presented at the Symposium on Conceptual Modeling which was held in Los Angeles California on December 2 th 1997 immediately before the 16 International Conference on Conceptual Modeling ER 97 which was held at UCLA A total of eighteen papers were selected for inclusion in this volume These papers are written by experts in the conceptual modeling area and represent the most current thinking of these experts This volume also contains the summaries of three workshops that were held on 6 7 December 1997 immediately after the ER 97 conference at UCLA The topics of these three workshops are Behavioral Modeling Conceptual Modeling in Multimedia Information Seeking What Is the Role of Cognition in Conceptual Modeling Since these topics are not only very important but also very timely we think it is appropriate to include the summary of these three workshops in this volume Those readers interested in further investigating topics related to the three workshops can either look up the individual paper published on the Web or contact the authors directly The summary paper by Chen at the beginning of this volume also includes the summary of several interesting speeches at the Symposium

The Songs of the Sage Joseph L. Angel,2022-11-14 Since its discovery at Qumran in the 1950 s those wishing to study the Songs of the Sage 4Q510 4Q511 had to approach a scattered grouping of fragments that gave little indication of the overall sequence structure and scope of the original composition In the present volume Joseph Angel remedies this situation by providing a new edition according to the sequence of the fragments determined by the material reconstruction of the more extensive manuscript 4Q511 In addition to numerous enhanced readings and fresh English translations the volume includes a general introduction apparatus of variant readings contextualizing commentary catalog of photographic evidence and key word in context concordance This work represents an unparalleled and comprehensive resource for anyone interested in the Songs of the Sage

Impedance of Commercial Leclanché Dry Cells and Batteries R. J. Brodd,Harold J. DeWane,1963 The Future of the Brain Sciences Samuel Bogoch,2013-12-14

NBS Technical Note ,1963-07 **Computer Aided Verification** Isil

Dillig, Serdar Tasiran, 2019-07-12 This open access two volume set LNCS 11561 and 11562 constitutes the refereed proceedings of the 31st International Conference on Computer Aided Verification CAV 2019 held in New York City USA in July 2019 The 52 full papers presented together with 13 tool papers and 2 case studies were carefully reviewed and selected from 258 submissions The papers were organized in the following topical sections Part I automata and timed systems security and hyperproperties synthesis model checking cyber physical systems and machine learning probabilistic systems runtime techniques dynamical hybrid and reactive systems Part II logics decision procedures and solvers numerical programs verification distributed systems and networks verification and invariants and concurrency **Algebra Teaching around the World** Frederick K.S. Leung, Kyungmee Park, Derek Holton, David Clarke, 2014-10-13 Utilizing the LPS dataset Algebra Teaching around the World documents eighth grade algebra teaching across a variety of countries that differ geographically and culturally Different issues in algebra teaching are reported and different theories are used to characterize algebra lessons or to compare algebra teaching in different countries Many commonalities in algebra teaching around the world are identified but there are also striking and deep rooted differences The different ways algebra was taught in different countries point to how algebra teaching may be embedded in the culture and the general traditions of mathematics education of the countries concerned In particular a comparison is made between algebra lessons in the Confucian Heritage Culture CHC countries and Western countries It seems that a common emphasis of algebra teaching in CHC countries is the linkage or coherence of mathematics concepts both within an algebraic topic and between topics On the other hand contemporary algebra teaching in many Western school systems places increasing emphasis on the use of algebra in mathematical modeling in real world contexts and in the instructional use of metaphors where meaning construction is assisted by invoking contexts outside the domain of algebraic manipulation with the intention to helping students to form connections between algebra and other aspects of their experience Algebra Teaching around the World should be of value to researchers with a focus on algebra pedagogy or international comparisons of education Because of the pedagogical variations noted here there is a great deal of material that will be of interest to both teachers and teacher educators

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