

# CENTRAL DOGMA OF MOLECULAR BIOLOGY



## Instructions:

To simulate the process of protein synthesis by transcription and translation, you will use the codon table below to build sentences from sequences of DNA. Your group will receive one listed DNA sequence and one mutated DNA sequence to transcribe and translate. Before you begin, fill in the missing complementary base pairs in the Base Pairing Rules chart below and complete the Vocabulary Cloze Passage to make sure you understand all of the vocabulary and concepts necessary to complete this activity.

When your group receives your DNA sequences, first transcribe them into mRNA codons. From your mRNA, use the codon chart to translate your sequences into sentences. Devise a plan for figuring out what type of mutation your sequence receive by comparing your two sequences. Finally, answer the analysis questions that follow.

| BASE PAIRING RULES           |     |      |
|------------------------------|-----|------|
| Replication    Transcription |     |      |
| DNA                          | DNA | mRNA |
| A                            |     |      |
| C                            |     |      |
| G                            |     |      |
| T                            |     |      |

| FIRST BASE IN CODON | SECOND BASE IN CODON |           |            |          | THIRD BASE IN CODON |
|---------------------|----------------------|-----------|------------|----------|---------------------|
|                     | U                    | C         | A          | G        |                     |
| U                   | you                  | you       | instrument | power    | U                   |
|                     | be                   | school    | being      | eat      | C                   |
|                     | your                 | it        | STOP (?)   | STOP (?) | A                   |
|                     | you'                 | and       | STOP (?)   | for      | G                   |
| C                   | cool                 | must      | play       | things   | U                   |
|                     | so                   | today     | the        | is       | C                   |
|                     | thankful             | to        | learn      | a        | A                   |
|                     | thankful             | pride     | can        | drink    | G                   |
| A                   | many                 | knowledge | more       | respect  | U                   |
|                     | food                 | others    | healthy    | we       | C                   |
|                     | food                 | , (comma) | of         | water    | A                   |
|                     | Start Codon          | think     | success    | know     | G                   |
| G                   | alive                | yourself  | musical    | day      | U                   |
|                     | alive                | plenty    | important  | also     | C                   |
|                     | is                   | study     | biology    | because  | A                   |
|                     | learned              | learned   | gift       | have     | G                   |

# Protein Synthesis Simulation Activity

**Bonnie S. Wood**



## **Protein Synthesis Simulation Activity:**

The Oxford Handbook of Neuronal Protein Synthesis Wayne S. Sossin, 2021 The Oxford Handbook of Neuronal Protein Synthesis reviews the mechanisms of translational control used by the nervous system as well as how nervous system functions such as plasticity and homeostasis depend on accurate translational control The handbook extensively covers how dysregulation of protein synthesis can manifest itself in many distinct pathological processes including neurodevelopmental neuropsychiatric and neurodegenerative diseases Brewing - A Practical Approach Bijay Bahadur, 2016-11-18 This book is for anyone who is a practising brewer works in the brewing industry or has a strong interest in brewing techniques procedures and know how With topics ranging from the ingredients to formulation to operation of the brewery this book acts as a handy guide for the topic of brewing With each chapter presenting detailed information tips and practical pitfalls there is enough and more to equip the reader with a deeper and broader understanding of the industry Salters-Nuffield Advanced Biology Salters-Nuffield, 2005 Salters Nuffield Advanced Biology SNAB is a major course that draws on contemporary and cutting edge developments in biological sciences that are set in real life contexts This text meets the needs of the SNAB syllabus specification in an accessible way that will help motivate students **Cumulated Index Medicus**, 1974 *Physical and Chemical Bases of Biological Information Transfer* Julia Vassileva-Popova, 2012-12-06 Mathematical Approach and Models of Regulatory Mechanisms A New Mathematical Approach of Hormonal Regulatory Mechanisms during Growth The Allosteric Model of Monod Wyman and Changeux and the Phenomenon of Rising B F Curves in Hormone Antibody Reactions Oxytocin Effect of the Depolarized Rat Uterus A Mathematical Approach Using System Identification Method for Measuring the Development of Control Systems in Time Analytical Investigation of the Oscillatory Phenomenon in Hormone Regulation Substrate Concentration and Its Effect on the Application of the Law of Mass Action A Brownian *Biology of Reproduction* Joseph Thomas Velardo, 1972 **Army Research Task Summary**, 1961 Mechanisms, thermodynamics and kinetics of ligand binding revealed from molecular simulations and machine learning Yinglong Miao, Weiliang Zhu, Chia-en A. Chang, J. Andrew McCammon, 2023-02-24 *Biology*, 1999 **Neuroscience for Clinicians** Eduardo E. Benarroch, 2021 This book will provide clinicians with focused reviews on basic sciences to help understanding the mechanisms and treatment of neurologic disease The chapters emphasize how genetic molecular and cellular mechanisms and their interactions control the function of the nervous system and provide the bases for a wide range of neurologic disorders They include neurodegenerative disorders epilepsy movement disorders peripheral neuropathy and chronic pain among others The chapters contain several figures and tables that summarize the most important concepts

**Evolution as Computation** Laura F. Landweber, Erik Winfree, 2012-12-06 The study of the genetic basis for evolution has flourished in this century as well as our understanding of the evolvability and programmability of biological systems Genetic algorithms meanwhile grew out of the realization that a computer program could use the biologically inspired

processes of mutation recombination and selection to solve hard optimization problems Genetic and evolutionary programming provide further approaches to a wide variety of computational problems A synthesis of these experiences reveals fundamental insights into both the computational nature of biological evolution and processes of importance to computer science Topics include biological models of nucleic acid information processing and genome evolution molecules cells and metabolic circuits that compute logical relationships the origin and evolution of the genetic code and the interface with genetic algorithms and genetic and evolutionary programming

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