

Simulating Protein Synthesis

Pre-Lab Discussion

Genes are the units that determine inherited characteristics, such as hair color and blood type. Genes are lengths of DNA molecules that determine the structure of polypeptides (the building blocks of proteins) that our cells make. The sequence of nucleotides in DNA determines the sequence of amino acids in polypeptides, and thus the structure of proteins.

In a process called *transcription*, which takes place in the nucleus of the cell, messenger RNA (mRNA) reads and copies the DNA's nucleotide sequences in the form of a complementary RNA molecule. Then the mRNA carries this information in the form of a code to the ribosomes, where protein synthesis takes place. The code, in DNA or mRNA, specifies the order in which the amino acids are joined together to form a polypeptide. The code words in mRNA, however, are not directly recognized by the corresponding amino acids. Another type of RNA called transfer RNA (tRNA) is needed to bring the mRNA and amino acids together. As the code carried by mRNA is "read" on a ribosome, the proper tRNAs arrive in turn and give up the amino acids they carry to the growing polypeptide chain. The process by which the information from DNA is transferred into the language of proteins is known as *translation*.

In this investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by fictitious organisms called CHNOPS. CHNOPS, whose cells contain only one chromosome, are members of the kingdom Animalia. A CHNOPS chromosome is made up of six genes (A, B, C, D, E, and F), each of which is responsible for a certain trait.

Problem

How can the traits on a particular chromosome be determined? How can these traits determine the characteristics of an organism?

Materials (per student)

Blue pencil
Orange pencil

Procedure

1. To determine the trait for Gene A of your CHNOPS, fill in the information in the box labeled Gene A in the Data Table. Notice the sequence of nucleotides in DNA. On the line provided, write the sequence of nucleotides of mRNA that are complementary to DNA. Then, on the line provided, write the sequence of nucleotides of tRNA that are complementary to mRNA.
2. In order to determine the sequence of amino acids, match each tRNA triplet with the specific amino acid in Figure 1. Using a - (hyphen) to separate each amino acid number, record this information in the appropriate place in the Data Table.
3. Using Figure 2, find the trait that matches the amino acid sequence. Record this information in the appropriate place in the Data Table.

Simulating Protein Synthesis Answers

Larry Engelking



Simulating Protein Synthesis Answers:

Teaching to Learn Kenneth George Tobin, 2006 A recurrent trope in education is the gap that exists between theory taught at the university and praxis what teachers do in classrooms How might one bridge this inevitable gap if new teachers are asked to learn to talk about teaching rather than to teach In response to this challenging question the two authors of this book have developed coteaching and cogenerative dialoguing two forms of praxis that allow very different stakeholders to teach and subsequently to reflect together about their teaching The authors have developed these forms of praxis not by theorizing and then implementing them but by working at the elbow of new and experienced teachers students supervisors and department heads Coteaching which occurs when two or more teachers teach together supports learning to teach while improving student achievement Cogenerative dialogues are conversations among all those who have been present in a lesson they ensure that what was learned while coteaching is beneficial for all coteachers and learners Tobin and Roth describe the many ways coteaching and cogenerative dialogues are used to improve learning environments dramatically improving teaching and learning across cultural borders defined by race ethnicity gender and language Teaching to Learn is written for science educators and teacher educators along the professional continuum new and practicing teachers graduate students professors researchers curriculum developers evaluation consultants science supervisors school administrators and policy makers Thick ethnographic descriptions and specific suggestions provide readers access to resources to get started and continue their journeys along a variety of professional trajectories [A Short Guide to Writing about Science](#) David Porush, 1995 Advanced advice for students who want to read write and learn about science in preparation for a career in that field

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Carolina Science and Math Carolina Biological Supply Company, 2003
Cumulated Index Medicus, 1996 **Transactions on Computational Systems Biology VI** Gordon Plotkin, 2006-11-27
The 5th Transactions on Computational Systems Biology volume edited by Gordon Plotkin features carefully selected and

enhanced contributions initially presented at the 2005 IEEE International Conference on Granular Computing The 9 papers selected for this special issue discuss various aspects of computational methods algorithm and techniques in bioinformatics such as gene expression analysis biomedical literature mining and natural language processing protein structure prediction biological database management and biomedical information retrieval

Resources for Teaching Middle School

Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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The Second Aizu International Symposium on Parallel Algorithms/Architecture Synthesis N. N. Mirenkov, 1997 Proceedings Parallel Computing

Instructional Technology Robert M. Gagne, 2013-12-16 First Published in 1987 The technical knowledge that constitutes instructional technology includes practical procedures for using existing media to deliver instruction and also to deliver portions of instruction that supplement the communications of an instructor Instructional technology includes practical techniques of instructional delivery that systematically aim for effective learning whether or not they involve the use of media It is a basic purpose of the field of instructional technology to promote and aid the application of these known and validated procedures in the design and delivery of instruction

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