

LAB _____ HOW ARE PROTEINS MADE IN CELLS

“DNA gets all the glory, but proteins do all the work!”

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C (cytosine), G (guanine), A (adenine), and T (thymine). The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Because of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of your cells.

DNA is organized in sections called genes. Genes code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins — serving as the building blocks of cells and bodies. And they function as enzymes — directing all the chemical reactions in living organisms.

Proteins are made in the cytoplasm by ribosomes. So the information from DNA must be transferred from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for a messenger RNA (mRNA) molecules. The mRNA is made by matching its complementary bases — C, G, A, and U (uracil) — to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the protein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three — the triplet codons. Another type of RNA — transfer RNA (tRNA) — brings the protein building blocks — amino acids — to the ribosome as they are needed. The ribosome bonds the amino acids together to build the protein coded for by the gene back in the nucleus.

PROCEDURE

1. Your group should obtain one sheet of paper with your four sections of DNA. Cut the strips out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the desk from left (left) to right (right). See the diagram below.



2. We are going to use this section of our DNA as a gene to make a protein the cell needs. Remember it used to be part of a double-stranded DNA molecule. But it has already been unzipped and now will be used as the template to build your mRNA, one base at a time. So first design an RNA polymerase enzyme to do this mRNA synthesis job.
3. **TRANSCRIPTION:** You have been supplied with mRNA nucleotide bases. Build a mRNA molecule from this gene by matching the mRNA bases to your DNA template, one base at a time. Tape this mRNA molecule along its length to simulate the strong bonds that the RNA polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

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C Cleary



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Lactic Acid Bacteria Heping Zhang,Yimin Cai,2014-04-29 The book summarizes the latest research and developments in dairy biotechnology and engineering It provides a strategic approach for readers relating to fundamental research and practical work with lactic acid bacteria The book covers every aspect from identification ecology taxonomy and industrial use All contributors are experts who have substantial experience in the corresponding research field The book is intended for researchers in the human animal and food sciences related to lactic acid bacteria Dr Heping Zhang is a Professor at the Key Laboratory of Dairy Biotechnology and Engineering Ministry of Education Inner Mongolia Agricultural University China Dr Yimin Cai works in Livestock and Environment Division Japan International Research Center for Agricultural Sciences JIRCAS Japan

Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis,John L. Crawley,2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

Interactions between Bioactive Food Ingredients and Intestinal Microbiota Zheng Ruan,Xiaodong Xia,Guodong Zhang,Fengjie Sun,2022-05-06

Advances in Molecular Techniques Rakesh S. Sengar,Amit Kumar,Reshu Chaudhary,Ashu Singh,2018-05-11 Molecular genetics aims to comprehend biological activity at the gene sub level Scientists from different areas of research and applied science can use the standard techniques optimized by molecular biologists This book serves as a guide that introduces classic molecular biology techniques and advances in molecular and genetic engineering

Biotechnology of Lactic Acid Bacteria Fernanda Mozzi,R?ul R. Raya,Graciela M. Vignolo,2010-01-29 This title represents a broad review of current research on LAB and their novel applications with contributions from a number of well known leading scientists The book encompasses a wide range of topics including both traditional and novel developing fields and provides unparalleled comprehensive information on new advances of genomics proteomics metabolism and biodiversity of LAB Chapters contain state of the art discussions of specific LAB applications such as their use as probiotics live vaccines and starter cultures in old and new fermented products The safety of these microorganisms and their interactions with diverse ecosystems natural biota are also covered as well as the new applications of well known bacteriocins and novel vitamins low calorie sugars etc metabolites produced by LAB This book is an essential reference for established researchers and scientists doctoral and post doctoral students university professors and instructors and food technologists working on food microbiology physiology and biotechnology of lactic acid bacteria

Research Awards Index ,1982

Cell-Free Synthetic Biology Jian Li,Yong-Chan Kwon,Yuan Lu,Simon J. Moore,2022-01-13

Chapter Resource 10 How

Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Subject Index of Current Extramural Research Administered by the National Cancer Institute*, 1978 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 **Protein - Protein Interaction** Meike Werther, Harald Seitz, 2008-08-28

This book covers trends in modern biotechnology It treats all aspects of this interdisciplinary technology where knowledge methods and expertise are required from chemistry biochemistry microbiology genetics chemical engineering and computer science **Cumulated Index Medicus**, 1973 *Pathogenesis and Mechanisms of Liver Cell Necrosis* D. Keppler, 2012-12-06

The pathogenesis of cell death and necrosis in the liver is a central topic of research in liver disease A molecular understanding of events and sequences leading to cellular death provides the basis for preventive and therapeutic efforts This volume originates from a Workshop on Experimental Liver Injury held on November 9 and 10 1974 in Freiburg Germany Recent progress in the elucidation of the mode of action includes agents inducing liver cell necrosis by a primary disturbance of nucleotide and nucleic acid metabolism as well as hepa totoxins characterized by a primary attack on cellular membranes I hope that this book will contribute to an increasing understanding of disease mechanisms Freiburg im Breisgau Dietrich Keppler June 1975 Acknowledgments The generous support from Dr H Falk Freiburg has been a prerequisite for the organisation and publication of the meeting on Pathogenesis and Mechanisms of Liver Cell Necrosis I wish to express my sincere thanks for this sponsorship I am indebted to those who acted as chairmen during the meeting Professors H Remmer Tilbingen M Frimmer Giessen W Gerok Freiburg H Popper New York H Schimassek Heidelberg and K Decker Freiburg

Encyclopedia of Genetics, Genomics, Proteomics, and Informatics George P. Rédei, 2008-04-25 This new third edition updates a best selling encyclopedia It includes about 56% more words than the 1 392 page second edition of 2003 The number of illustrations increased to almost 2 000 and their quality has improved by design and four colors It includes approximately 1 800 current databases and web servers This encyclopedia covers the basics and the latest in genomics proteomics genetic engineering small RNAs transcription factories chromosome territories stem cells genetic networks epigenetics prions hereditary diseases and patents Similar integrated information is not available in textbooks or on the Internet **Changes in Eukaryotic Gene Expression in Response to Environmental Stress** Burr Atkinson, 2012-12-02

Changes in Eukaryotic Gene Expression in Response to Environmental Stress focuses on various aspects of eukaryotic cell response to heat stress shock and other stress stimuli This book is organized into two major sections encompassing 17 chapters that reflect the emphasis on research utilizing Drosophila a variety of animal systems and plants This book first provides a brief introduction to the organization sequences and induction of heat shock proteins and related genes It then describes the control of transcription during heat shock from the standpoint of molecular biology and evolutionary variations of the mechanisms in organisms with diverse metabolic needs It goes on to discuss the issue of coordinate and noncoordinate responses of heat shock genes It presents a model for post transcriptional regulation on certain aspects of coordinate and

noncoordinate regulations Chapters 6-12 discuss heat shock proteins and genes and the effects of stress on gene expression of sea urchin, avian and mammalian cells The second part of the book focuses on the physiological role of heat shock proteins and genes in plants and fungi It includes a discussion on experimental problems encountered during studies of the mechanisms of inhibition of photosynthesis by unfavorable environmental conditions The changes in transcription and translation of specific mRNAs in the developing embryo during heat shock at various temperatures are described The concluding chapters deal with heat shock response in plants particularly the response in soybeans and maize covering both physiological and molecular analyses Research scientists, clinicians and agriculturists will greatly benefit from the information presented in this book

AP Biology For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart, hard working and ambitious All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That's where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust your exam taking strategy Supplemented with handy lists of test taking tips, must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed Holt Biology, 2004

International Plant Proteomics Organization (INPPO) World Congress 2014 Joshua L. Heazlewood, Jesús V. Jorrín-Novo, Ganesh Kumar Agrawal, Silvia Mazzuca, Sabine Lühje, 2017-02-08 The field of proteomics has advanced considerably over the past two decades The ability to delve deeper into an organism's proteome, identify an array of post translational modifications and profile differentially abundant proteins has greatly expanded the utilization of proteomics Improvements to instrumentation in conjunction with the development of these reproducible workflows have driven the adoption and application of this technology by a wider research community However the full potential of proteomics is far from being fully exploited in plant biology and its translational application needs to be further developed In 2011 a group of plant proteomic researchers established the International Plant Proteomics Organization INPPO to advance the utilization of this technology in plants as well as to create a way for plant proteomics researchers to interact, collaborate and exchange ideas The INPPO conducted its inaugural world congress in mid 2014 at the University of Hamburg, Germany

Plant proteomic researchers from around the world were in attendance and the event marked the maturation of this research community The Research Topic captures the opinions ideas and research discussed at the congress and encapsulates the approaches that were being applied in plant proteomics **Glomerulopathies:Cell Biol/Imm** Wardle,1996-04-01 The glomerulopathies are the diseases affecting the filtering units of the kidneys In Glomerulopathies Cell Biology and Immunology the author details how recent advances in cell biology and immunology are able to advance our understanding such that we should be able to ameliorate or even arrest the course of these diseases In addition to discussing the fundamental concepts the book covers recent advances pertinent to the pharmacological and clinical management of glomerulonephritides and diabetic nephropathy The book uses a blend of basic science and clinical and experimental findings in a way that is suitable both for trainees in medical science and professional nephrologists *Index Medicus* ,2004

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