

## Central Dogma of Biology POGIL

### PROTEIN SYNTHESIS

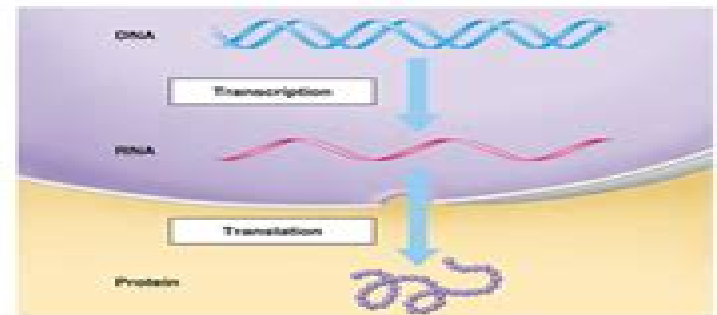
Use the diagrams and text provided & your textbook (which is online) to answer the following questions.

#### Module 1: Pre-Thinking Questions

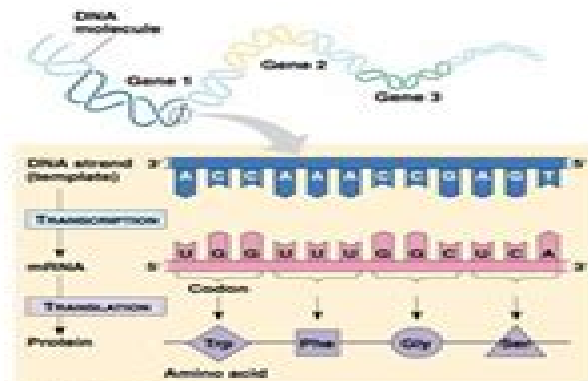
1. What molecule does DNA store the instructions for building?
2. Where is DNA located in a eukaryotic cell? Prokaryotic cell?
3. Where are proteins made?
4. How do you think the information stored in DNA gets to the ribosomes in the cytoplasm?

#### Module 2: The flow of information in Eukaryotic Cells

**Figure 1:** This figure shows the flow of information in cells from the DNA in the nucleus to a molecule called RNA to the creation of proteins in the cytoplasm. It was discovered that RNA, which is similar but not identical to DNA, moves from the nucleus to the cytoplasm. RNA is a nucleic acid polymer composed of nucleotides like DNA. However, RNA uses the sugar ribose and the nitrogen base uracil, instead of DNA's deoxyribose and thymine. Also RNA is a much smaller molecule than DNA.



5. Fill in the blank:  
DNA → \_\_\_\_\_ → Protein
6. What are at least 3 differences between DNA and RNA?



**Figure 2:** This figure shows the flow of information in a little more detail.

7. What is the process of going from DNA to RNA called? (hint it starts with a T)
8. Look at how the DNA and RNA pair. What does the U in RNA pair with? How is this different from the base pairing rules in DNA?
9. What is the process of going from RNA to protein called? (hint it starts with a T)
10. How many letters of RNA code for an amino acid?

# Protein Synthesis Pogil Answers

**Puja Mehta**



## **Protein Synthesis Pogil Answers:**

**Protein Synthesis** Yoshito Kaziro,1971      **Cell-free Protein Synthesis** Alexander S. Spirin,James R.

Swartz,2014-08-15 With its detailed description of membrane protein expression high throughput and genomic scale expression studies both on the analytical and the preparative scale this book covers the latest advances in the field The step by step protocols and practical examples given for each method constitute practical advice for beginners and experts alike

Protein Synthesis Abraham K. Abraham,Thor S. Eikhom,Ian F. Pryme,2012-12-06 During the past decade we have witnessed several major discoveries in the area of protein synthesis and post translational modification of protein molecules In this volume many of the latest research developments in these fields are reported by the distinguished international group of scientists who presented their state of the art results at the 13th Linderström Lang Conference held at Gøteborg Norway June 14-18 1983 We feel that the presentation here of so wide a variety of articles on both the molecular and the cellular aspects of protein synthesis will be of considerable value to many scientists working in the area who were unable to attend as well as to many who are active in related areas In addition to the research papers the contents of the six scientific sessions held during the conference have been summarized by the respective session chairmen These individual summaries provide insightful syntheses of all the recent progress in each field identify which current problems remain of special interest and suggest what the future may hold in the several areas of protein synthesis research covered Though this volume obviously cannot provide a complete survey of all important ongoing research on the molecular and cellular biology of translational and post translational events we are confident that it will facilitate a much better understanding of many important contemporary problems in research on protein synthesis including cell differentiation translational accuracy protein modification intracellular transport and membrane turnover

Protein Synthesis Robin Martin,1998-08-04 The synthesis of proteins from 20 or so constituent amino acids according to a strictly defined code with an accuracy of better than 1 in 10 000 at most locations is arguably the most complex task performed by cells Protein Synthesis collects together methods and protocols covering a range of different approaches towards understanding how the cellular machinery accomplishes this task and how these functions might be harnessed by the biotechnology industry to generate novel and useful proteins The era in which the components of the translational machinery were being catalogued is over This volume gathers together protocols that focus on preserving and describing the dynamic function as closely as possible The need to understand exactly how ribosomes are positioned on messages or where tRNA molecules translation factors or control proteins are bound has been appreciated by many of the authors Several chapters that explore the fidelity and processivity of translation reflect this belief Moreover the fundamental importance of rRNA at the heart of the ribosome is a strong theme in a number of the protocols These articles include in vitro and in vivo systems from bacterial fungal plant and animal systems Overall Protein Synthesis might be characterized by the novelty of the approaches employed to illuminate the inner workings of the protein synthetic

machinery as well as by the inventiveness of the attempts to harness these reactions for biotechnological applications

**Chemical Protein Synthesis** Xuechen Li, 2022-06-27 This volume provides updated protocols for chemical protein synthesis Chapters guide readers through development methods strategies and applications of protein chemical synthesis Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Chemical Protein Synthesis aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

**Protein Synthesis, A Series of Advances** Edwin H. McConkey, 1971

**Protein Biosynthesis** Robert John Cecil Harris, 1961

**Protein Biosynthesis** Alan E. Smith, Alan Smith, 1976-05-13

46 3 2 mRNA metabolism 47 3 3 Initiation complex formation 3 3 1 Binding of initiator tRNA 47 3 3 2 Binding of messenger RNA 50 3 4 Elongation 56 3 5 Termination of protein biosynthesis and post translational modification 59 RNA phage protein synthesis 61 3 6 References 63 Index 64 1 Introduction possible control processes operating to adjust 1 1 The problem protein synthesis to the needs of the cells and The discovery that the genetic material of organism It will be assumed that the reader has living organisms is DNA and the later de some knowledge of molecular biology in gen monstration that the DNA molecule is a eral and protein biosynthesis in particular but double helix were both great milestones in twentieth century science and formed the by way of introduction each of the major molecules and stages of the process will be foundation of the new discipline of molecular described in simple terms and in subsequent biology But even after these momentous dis chapters each will be discussed again in coveries the detailed mechanism by which such genetic material could be expressed as the struc greater depth tural and catalytic proteins which play so im portant a role in the functioning of all living 1 2 Overall steps in protein biosynthesis The information encoded in the two comple cells was still not obvious

*Protein Synthesis*. Edwin H. McConkey, 1971

Protein Synthesis Barbara L. Rosenberg, TVOntario, 1985

The Biosynthesis of Proteins H. Chantrenne, 1961

**Human Protein Metabolism** Stephen Welle, 2012-12-06 Human Protein Metabolism is a succinct review of hundreds of studies on the regulation of protein mass and protein turnover in the human body The biochemistry of protein synthesis and breakdown is summarized and the methods that are used to examine protein metabolism in humans are explained and their limitations discussed The book includes chapters that review the effects of nutrition hormones metabolic substrates and physical activity Various topics of clinical interest are covered including cancer diabetes tissue injury pregnancy renal disease muscular dystrophies and other conditions Normal values are presented for turnover of proteins in the whole body and individual organs and for turnover of many individual proteins This book will be a valuable resource for physiologists nutritionists and clinicians interested in the regulation of body protein stores in health and disease For scientists primarily interested in the basic aspects of protein metabolism it shows how the basic knowledge is being applied to the study of humans

Regulatory Mechanisms for Protein Synthesis in Mammalian

Cells Anthony Gordan San Pietro, Marvin R. Lamborg, Francis T. Kenney, 1968      Carbohydrate and Protein Synthesis, 1978

**New Research on Protein Synthesis** Carlo Bethaz, Vito Li Puma, 2014 In this book the authors present current research from across the globe in the study of protein synthesis Topics discussed in this compilation include protein synthesis elongation factors EF Tu and eEF1A and their application in the improvement of heat tolerance in plants myostatin function in muscle protein homeostasis and its link with the regulation of translation and energy regeneration systems in cell free protein in vitro      **Proteins** Geoffrey Allen, 1997-12-01      **Muscle Protein Synthesis** Prosenice, 2018-01-04 Muscle Protein Synthesis The Key to Building Muscle Prosenice is dedicated to guiding motivating and providing the tools necessary to transform people into the best version of themselves Our goal is to empower men and women across the globe to realize that physical and mental fitness are not a short term solution but a lifetime choice and to actualize what they have come to understand into a daily routine Prosenice has created a muscle building guide to help you better understand muscle protein synthesis and why you may want to consider it as part of your muscle building regiment Do you wish to know more about muscle protein synthesis Are you as big and strong as you want to be Have you tried so many different things that you've learned from many different experts on how to get big and strong but are still as thin as a bean pole and as strong as a 10 year old If your muscle mass and strength leave much to be desired after all your investments in terms of money time and hard work it means you've been doing it wrong and you'll need to start doing things differently After all if you always do what you always did then you'll always get what you always got It's time to do things differently and more importantly the right way In this book you'll learn what it truly takes to build serious muscle mass and consequently become much stronger In particular you'll learn the cornerstone on successful muscle building which is called muscle protein synthesis or MPS In this book you'll learn how muscles really grow and what you'll need to focus on to make sure that you put your muscles in a state where growth is optimal In particular you'll discover how to properly address the Holy Trinity of muscle building in order to enhance muscle protein synthesis and ultimately muscle growth And on the way you'll learn how to eat properly nutrition train properly exercise and recover optimally rest and recovery Together these 3 work synergistically to put your muscles in a constant state of optimal muscle growth and allow you to build more muscle mass successfully Prosenice is dedicated to providing accurate easily to follow guides such as this one on muscle protein synthesis to help you be your best self Prosenice is firmly committed to motivating inspiring and educating through the sharing of objective fact based health and fitness information that is rooted in science We give you the tools you need to get in great shape and build a lifetime of good health Join us let's work together to maximize your potential and achieve your optimal self while embracing life to the fullest So what are you waiting for Purchase the book now to step into the world of muscle protein synthesis      **Modern Methods in Protein Nutrition and Metabolism** Steven Nissen, 2012-12-02 Modern Methods in Protein Nutrition and Metabolism grew out of a series of seminars Modern Views in Nutrition held in 1989 at Iowa State University These seminars and this book

were financed primarily through the Wise and Helen Burroughs Lectureship endowment generously established by the late Dr Wise Burroughs and his wife Helen This book comprises 12 chapters and begins with a focus on amino acid analysis in food and physiological samples Succeeding chapters go on to discuss concepts and techniques on nitrogen balance determination of the amino acid requirements of animals and novel methods for determining protein and amino acid digestibilities in feedstuffs Other chapters cover measurement of protein digestion in ruminants evaluation of protein status in humans surgical models to measure organ amino acid metabolism in vivo and measurement of whole body protein content in vivo The remaining chapters discuss estimation of protein synthesis and proteolysis in vitro isotopic estimation of protein synthesis and proteolysis in vivo n glycine as a tracer to study protein metabolism in vivo and mathematical models of protein metabolism This book will be of interest to practitioners in the fields of human nutrition and medicine

**The Mechanism of Protein Synthesis** ,1969      Extending the Scope of Protein Synthesis by a Novel Auxiliary-based Native Chemical Ligation Strategy Christina Nadler,2013-09-18

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