

Protein Synthesis Webquest

Objective: *The purpose of this assignment is to give you a better understand of how the message found on a molecule of DNA is used to build a protein.*

Link 1 – DNA and RNA Comparison http://www.diffen.com/difference/DNA_vs_RNA

1. Read the information presented on the website and **organize it** in the following chart.

| Nucleic Acid | Sugar | # of "strands" | Nitrogen Bases | Size Comparison | Location in Cell |
|--------------|-------|----------------|----------------|-----------------|------------------|
| DNA | | | | | |
| RNA | | | | | |

2. Identify the **function** of the three types of RNA molecules.

a. **Ribosomal RNA (rRNA)** –

i. Describe the composition of the tiny ribosome organelle:

b. **Messenger RNA (mRNA)** –

c. **Transfer RNA (tRNA)** –

Link 2 – [Protein Synthesis Overview](http://www.learnerstv.com/animation/biology/Proteinsynthesis.swf) <http://www.learnerstv.com/animation/biology/Proteinsynthesis.swf>

3. Define **Protein Synthesis**:

4. Summarize the **importance of proteins** in living organisms.

5. What are the **monomers** (also called building blocks or "subunits") of the protein polymer?

6. **Segments of DNA which code for proteins** are known as _____.

a. How does this describe how to make proteins?

Replication And Protein Synthesis Webquest Answer Key

Edwin H. McConkey



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

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Protein Synthesis Kirill Alexandrov,Wayne A. Johnston,2014-01-09 Cell free protein expression promises to narrow the technological gap between DNA and protein technologies and provide a platform for broad application of synthetic biology principles in the Life Sciences It is a rapid and high throughput methodology for the conversion of DNA encoded genetic information into protein mediated biochemical activities Cell Free Protein Synthesis Methods and Protocols brings together the key opinion leaders of cell free technology development and provides case studies and detailed protocols for the application of cell free methodology Chapters cover the main directions in the development of cell free technologies including several recently developed cell free systems as well as a number of applications of cell free systems ranging from discovery of biofuel enzymes to in vitro assembly of viruses Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible Cell Free Protein Synthesis Methods and Protocols seeks to serve a wide variety of scientists with its well honed methodologies **On the Temporal Relationship Between Non-histone Protein Synthesis and DNA Replication in Normal and Irradiated Mammalian Cells** Eugene Williard Gerner,1974 *Extending the Scope of Protein Synthesis by a Novel Auxiliary-based Native Chemical Ligation Strategy* Christina Nadler,2013-09-18 *The Use of Radioautography in Investigating Protein Synthesis* International Society for Cell Biology,1968 **Proofreading During Protein Synthesis** Tarmo Ruusala,1985

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