

Biologically Important Molecules

AP Biology

OBJECTIVES: When you finish this activity, you will be able to

- **Explain** the connection between the sequence and the subcomponents of a biological polymer and its properties.
- **Refine representations and models** to explain how the subcomponents of a biological polymer and their sequence determine the properties of that polymer.
- **Use models to predict and justify** that changes in the subcomponents of a biological polymer affect the functionality of the molecule.
- **Construct** explanations based on evidence of how variation in molecular units provides cells with a wider range of functions.



Introduction

We have already seen in our study of biochemistry that the molecules that comprise living things are carbon-based, and that they are thought to have originated from inorganic molecules. It is thought that in living organisms, there are over 10,000 compounds that exist to help the organism function. These compounds belong to four major groups of biologically important molecules that perform four major functions in living things:

- Energy storage
- Cellular structure
- Cellular regulation and communication
- Information storage and transfer

But what do these molecules have in common? Are there detectable patterns that exist among groups of molecules in living organisms? How are these molecules assembled? We'll explore the answers to those questions in this activity.

Finding Patterns in Biologically Important Molecules

The molecules that make life possible are built off of carbon backbones, which act as scaffolds for the other atoms found in organic molecules--namely hydrogen, oxygen, nitrogen, phosphorus and sulfur. But these atoms are not usually found as solo atoms branched off of the carbon backbones. They are most often found as groups of atoms known as **functional groups**. These functional groups are clusters of atoms found

Biologically Important Molecules Study Guide

Huangqi Zhang



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web the single coil of a single phase induction motor does not produce a rotating magnetic field but a pulsating field reaching maximum intensity at 0° and 180° electrical figure below single phase stator produces a nonrotating pulsating magnetic field another view is that the single coil excited by a single phase current produces two

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