

Gene-Expression Explorers: A WebQuest on Gene Regulation

Introduction

Cells in your body are all built from the same DNA — yet a skin cell is very different from a nerve cell, muscle cell, or liver cell. How does that happen? It's because different genes are "turned on" or "turned off" in different cell types, at different times, or under different conditions. This process is called **regulation of gene expression**. By controlling when, where, and how much a gene is expressed, cells determine which proteins to make — and thus what kind of cell they become or how they behave.

1. Introductory Video

 Use the video on the first website below to get a quick, clear overview of why gene regulation is so important.

Introduction to Regulation of Gene Expression — part of a free series covering gene-expression topics. Link: [Introduction to Regulation of Gene Expression \(video + practice\)](#)

Questions

1. What are the two main steps cells use to produce proteins from genes?
 2. Name the five stages at which gene expression can be regulated (as described in the video).
 3. What is the difference between "positive" and "negative" gene regulation?
 4. In prokaryotes (like bacteria), which stage of regulation is most often used?
 5. Why might a cell want to turn a gene "off" at certain times? Give one example.
 6. Give one real-world reason (from medicine or biotechnology) why understanding gene regulation matters.
-

2. Informational Website — Concepts & Background

Regulation of Gene Expression — a clear, student-friendly overview from a free open-textbook resource. [Biology LibreTexts+1](#)

Questions

1. What does "gene regulation" mean in your own words?
2. How can different cell types in the same organism use the same DNA but behave differently?

Gene Expression Webquest

JS Bruner



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