

**Control of Gene Expression in Prokaryotes**

Prokaryotes have a single circular chromosome and a simplified mode of copying in that every light coil of the DNA, whether it is replicated or not, is the light molecule that is used for translation. Therefore, any mutation, whether neutral or lethal to the host, is immediately expressed. In addition, prokaryotes lack a cell wall, which allows for a high degree of permeability to the environment. This, along with other features, allows for a high degree of genetic exchange.

**Diagram A** shows a single promoter region (P) and operator region (O) upstream of a single gene. The gene is transcribed into a single mRNA molecule, which is then translated into a single protein product.

**Diagram B** shows a more complex system. It includes a regulatory gene (R) that produces a repressor protein (R). The repressor protein binds to the operator region (O), preventing transcription of the structural genes (G1, G2, G3). The structural genes are transcribed into mRNA and translated into protein products (P1, P2, P3).

- What type of regulation is shown in Diagram A? Is it inducible or repressible?
- Consider the system in Diagram B. What is the gene that regulates the expression of the structural genes? Is it inducible or repressible? What is the mechanism of regulation?
- What is the role of the repressor protein in Diagram B? How does it regulate the expression of the structural genes?
- What is the role of the structural genes in Diagram B? How do they regulate the expression of the structural genes?
- Do you think the system in Diagram B is more complex than the system in Diagram A? Why or why not?

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