

Gene Machine: The Lac Operon

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Main Topics

Gene Regulation

Genes

Cellular Metabolism

Cells

Sample Learning Goals

Predict the effects on lactose metabolism when the various genes and DNA control elements are mutated (added or removed).

Predict the effects on lactose metabolism when the concentration of lactose is changed.

Explain the roles of LacI, LacZ, and LacY in lactose regulation

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