

Gene Regulation -

4. The cells in your liver read specific pieces of DNA that code for the production of bile, which is used to aid in digestion. However, the cells in your eyeball do not produce bile. Which of the following statements best explains why?
 - a. Eyeballs lack one of their chromosomes, resulting in a purposeful disorder where bile is unable to be produced.
 - b. Bile is produced, but it is repurposed for a different purpose within the eyeball.
 - c. The DNA that codes for bile in your eyeball's cells is not transcribed or translated.
 - d. The cells of your eyeball lack the DNA that code for bile.
5. In a species of *Drosophila*, developing larvae have special proteins in their epithelial cells. These proteins bind to a certain repressor in the larvae's cells, which ultimately causes a dark pigment to be produced. What would you expect if scientists purposely injected a developing larva with an excess of these proteins?
 - a. Only some of the cells of the adult *Drosophila* will contain dark pigment.
 - b. A majority, if not all, of the cells within the adult *Drosophila* will express the dark pigmentation.
 - c. The mRNA for the pigmentation code will be transcribed in all of the *Drosophila*'s epithelial cells.
 - d. The repressor of the pigmentation would be compromised, and therefore bind more thoroughly to the DNA. This would result in not only no pigmentation, but also a lack of other physical aspects - such as appendages and wings.
6. In the presence of lactose, bacteria will produce proteins that break down lactose. Which of the following explains why these proteins are only made in the presence of lactose?
 - a. Lactose causes the repressor on the lac operon to lose its ability to bind to DNA.
 - b. Lactose causes the repressor on the lac operon to bind tighter to DNA.
 - c. Lactose activates special ribosomes that cause entirely new segments of DNA to be synthesized.
 - d. Lactose doubles as an RNA polymerase.
7. Which of the following is the best definition for an operon?
 - a. A segment of DNA that can be "turned off" or "turned on," and is controlled by a single promoter.
 - b. A DNA binding protein that regulates gene expression.
 - c. A segment of DNA that is always ignored by the transcription enzymes.
 - d. A segment of DNA that is transcribed by RNA polymerase into the lipids that the cell requires for growth.

Immune System -

Somewhere around 20% of the people in the developed world have celiac disease, which is also known as "they have it." People with this condition often get a variety of unpleasant symptoms when

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Tao Wei



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