



The Biology of Skin Color

HHMI BioInteractive

Short Film
Student Handout

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This handout supplements the short film [The Biology of Skin Color](#).

1. True / False. Biologists classify specific forms of traits as good or bad. For example, long tails in cats could be classified as good and short tails as bad. FALSE

2. Explain the reasoning or evidence you used to answer Question 1.

Some organisms have an advantage with some traits, but they have a disadvantage with those traits in other situations.

3. If you travel north from the equator, what generally happens to the intensity of ultraviolet (UV) light? B
- The intensity increases.
 - The intensity decreases.
 - The intensity stays the same.
 - It is impossible to predict.

4. Who would you expect to be most at risk for developing the bone disease rickets? A
- Children born to mothers with dark skin, living far from the equator
 - Adults with dark skin who live close to the equator
 - Children born to mothers with light skin, living close to the equator
 - Adults with light skin who live close to the equator
 - Anyone who eats a diet that includes a lot of fish

5. Explain the reasoning or evidence you used to answer Question 4.

They would not be able to produce enough vitamin D.

6. When Dr. Nina Jablonski describes her discovery of the UV data collected by NASA, a headline is visible that reads, "Ozone Depletion Raising Risk of Skin Cancer, Scientist Says." Use this headline and your understanding of what causes skin cancer to infer a beneficial feature of the ozone layer for humans. Why would a depleted ozone layer increase the risk of skin cancer?

A depleted ozone layer would cause overexposure to sunlight, and the skin to receive more UV light than our bodies need, which would cause skin cancer.

7. Ultraviolet light can cause mutations and other damage within cells, which can hurt an individual's chance of surviving and leaving offspring. Some molecules can protect cells from damage by UV. The amount of these molecules is determined by genes. Within a population, some individuals make more of these UV-protection molecules than others.

Murray Color Answer Key

Guillaume Favre

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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