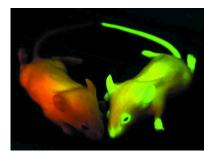


## **Pre-Lab Questions:**

- 1. Green fluorescent protein is normally found in a jellyfish called *Aequoria victoria*, and it makes the jellyfish glow. What do you think jellyfish use this glowing trait for?
- 2. This is a picture of a mouse that was genetically engineered with the GFP gene, beside a mouse that was NOT genetically engineered.



Which mouse was genetically engineered, and how do you know?

Why do you think scientists performed this experiment?

Photo taken from:

## **Post-Lab Questions:**

- 1. Give one example of how GFP can be used as a "reporter" in research.
- 2. What is the name of the small circular piece of DNA used to transfer new genes into bacterial cells?
- 3. What wavelength of light is required to make GFP fluoresce in living cells?
- 4. Name one of the scientists who shared the 2008 Nobel Prize in Chemistry for "for the discovery and development of the green fluorescent protein, GFP," and describe his contribution.