Quiz - GFP

Part A: True/False Questions

- 1. Aequorin emits blue light.
- 2. Jelly fish grows blue because of Aequorin.
- 3. GFP absorbs blue light from Aegorin and releases green light.
- 4. GFP allows the microscopic study of live cells.
- 5. GFP alters the physiology of targeted protein.
- 6. GFP is non-toxic.
- 7. GFP allows high level of expression.
- 8. The story of GFP starts with the curiosity of a Japanese scientist into jellyfish's ability to glow in the dark.
- 9. Formaldehyde is usually used in fixation of cells.
- 10. GFP allows the study of all organelles in cells.

Part B: Multiple Choice Questions

- 1. What does GFP stand for?
 - A. Green Fluorescent Protein
 - B. Good Fatty Protein
 - C. Both A and B
 - D. None of the above
- 2. Which of the following procedures do cells usually have to undergo in traditional microscopy?
 - A. Being fixed
 - B. Being sectioned
 - C. Being stained
 - D. All of the above
- 3. In 1988, who proposed the idea that GFP can be an ideal cellular beacon?
 - A. Martin Chalfie
 - B. Martin Brown
 - C. Osamu Shimomura
 - D. Roger Tsien
- 4. Who slightly adjusted the structure of GFP in 2000s to make it more stable and emit different colors?
 - A. Roger Tsien
 - B. Martin Chalfie
 - C. Martin Brown
 - D. Osamu Shimomura
- 5. How did scientists from Harvard University create a rainbow in a mouse's brain?
 - A. Introducing GFP variants to neuronal cells of the rodents
 - B. Introducing a combination of GFP variants to neuronal cells of the rodents

- C. Introducing a combination of cells from worms to neuronal cells of the rodents
- D. None of the above
- 6. GFP was first introduced into what organism by Martin Chalfie as to study the characteristic of GFP?
 - A. Worm
 - B. Dog
 - C. Oyster
 - D. Crown fish
- 7. GFP in Martin Chalfie's transpartent worm emits fluorescence spontaneously under what type of light?
 - A. Sunlight
 - B. X-ray
 - C. UV
 - D. None of the above
- 8. What is the name of the jellyfish which Osamu Shimomura extracted and purified the protein called Aequoria?
 - A. Aequoria Victoria
 - B. Canonball Jellyfish
 - C. Aurelia Aurita
 - D. Box Jellyfish
- 9. Where does GFP tag the targeted protein?
 - A. The head
 - B. The end
 - C. The middle part
 - D. None of the above
- 10. How can GFP tag the targeted protein?
 - A. Genetic engineering
 - B. Acidulation
 - C. Alkalization
 - D. None of the above