

1. How old are you?
  - a. 10~20 years old
  - b. 20~30 years old
  - c. 30~40 years old
  - d. Above 40 years old
  
2. What is your educational background?
  - a. Elementary school
  - b. Junior high school
  - c. Senior high school
  - d. College
  - e. Master or doctor degree
  
3. What is your occupation?
  
4. Have you ever heard about synthetic biology?
  - a. Yes, I have.
  - b. No, I have not.
  - c. It seems that I have heard
  - d. I forget.
  
5. What is the method you heard the synthetic biology?
  - a. School
  - b. Newspaper or magazine
  - c. Science book
  - d. Internet
  - e. Others
  
6. What is the definition of the synthetic biology?
  - a. Synthesize a creature like unicorn, Frankenstein, etc.
  - b. Make tissues or organs in the lab.
  - c. Just a imaginary science, and not develop yet.
  - d. A new area of biological research and technology that combines science and engineering. It encompasses a variety of different approaches, methodologies, and disciplines with a variety of definitions.
  - e. Others.
  
7. Do you think what is the usage of the synthetic biology in the future?
  - a. Agriculture
  - b. Producing energy
  - c. Medical science
  - d. Produce food for animal to eat
  - e. Others
  
8. Do you think that synthetic biology will or won't produce a creature that is harmful to human?

- a. Yes, I do.
- b. No, I do not.
- c. I am not sure.

9. Do you think using the product of synthetic biology on industrial or people's livelihood will or won't do serious harm to environment or human?

- a. Yes, I do.
- b. No, I do not.
- c. I am not sure. It depends on what kind of products.

10. Would you like to use the product (fuel or any material) made by synthetic biology?

- a. Yes, I would.
- b. No, I would not.
- c. I am not sure. It depends on what kind of product.

11. Presently, methanol, ethanol, and hydrogen are normally made by chemical process, but do you know they can be produced by E. coli or other microorganisms?

- a. Yes, I do.
- b. No, I don't.
- c. I am not sure.

12. Do you think using bacteria to produce biofuels is a meaningful way and have future development?

- a. Yes, I do.
- b. No, I do not.
- c. I am not sure.

13. Do you think what is the yield of the ethanol produced by E. coli or other microorganism?

- a. 0.1%
- b. 1%
- c. 10%
- d. 20%

14. Do you know that nowadays besides commercial biofuels ethanol and biodiesel, the isobutanol has higher energy density than bioethanol and is more like gasoline.

- a. Yes, I do.
- b. No, I do not.

15. Nowadays there are many special crops for producing biofuels such as corns and soybean in USA, flaxseed and canola in Europe, Brazil's sugar cane and Coconut oil in Southeast Asia. But most of this can be used as human food. Do you know is there anything else could be used to make biofuels?

- a. feces
- b. waste water
- c. kitchen waster

- d. wood
- e. others

16. Do you know the usual biofuels like ethanol needs a lot of food to produce it. But, we can have a higher yield if we use the synthetic biology to produce isobutanol and thus reduce the food waste.

17. Thanks for your answering. You can write down your ideas or suggestions. We are appreciate for your writing.