

医学部 (医学科)

<パート1>

設問1

(1) (a) (2) (d) (3) (c) (4) (b)

設問2

研究所の図書館にある最新の科学雑誌をコピーする習慣が共にあったカリコーとワイスマンが、コピー機の側でお互いのワクチン開発の手法について議論した。カリコーが開発中の合成RNAの長所についてワイスマンに説明したところ、共同で研究することとなった。その結果、かねてからmRNAワクチンが抱える問題であった免疫系の炎症反応を抑える方法の発見へとつながった。

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設問3

従来のワクチンでは、多くが鶏卵の中でウイルスを培養するため、開発に時間がかかった。一方で、mRNAワクチンはウイルスの遺伝配列に関する情報を読み取り、適切な一部を選び出してそれと一致するmRNAを化合物で生成し、それを脂質に注入するだけで作ることができるため、柔軟に素早く開発することができる。

設問4

(a) (b) (f)

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設問1

- ① ignorant
- ② investigate
- ③ participants
- ④ consecutive
- ⑤ benefit
- ⑥ afterward
- ⑦ compared
- ⑧ effect
- ⑨ predictors
- ⑩ provided
- ⑪ various
- ⑫ demonstrated
- ⑬ buffer
- ⑭ subsequent
- ⑮ burden
- ⑯ spent
- ⑰ meaningful
- ⑱ across
- ⑲ sacrificing
- ⑳ commitment

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設問2

1.

Helping others can benefit you by lowering your blood pressure, helping you live longer, and making you feel happier.

【別解】

Helping others leads to longevity, better general health, and greater happiness.

2.

Helping others can negatively affect helpers by making them focus solely on the happiness of others and give up their own pleasure. People should choose a person they support on their own because being forced to benefit others does not increase their own happiness.

【別解】

Helping others can be harmful because the helpers sometimes ignore their own needs. People should decide who they help because, unlike when they voluntarily help people, they get no positive effect from helping people when forced.

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When I enter medical school, there will be some times when I have to deal with human death, whether I like it or not. It will be especially hard for me to deal with dead bodies in anatomy experiments because I have little experience seeing them, as would be the case for many people.

However, gaining knowledge through dissection should help me grow as a person studying medicine. By appreciating the preciousness of life and remembering that I will use this knowledge to help as many people as possible in the future, I will be able to maintain my motivation. (100 words)

【別解】

When I enter medical school, I have to take many exams and attend various practical training courses. Moreover, the tuition fee of medical school is high, so I will have to work part-time to pay for it. Making the most of my limited time will be important in my school life.

When I have concerns about the busy life of medical school, I'll focus on the future. I will have an even busier life when I become a doctor, so I'll try to get used to a busy schedule during medical school. That way I will be able to handle the pressures of my career. (105 words)