

Form B-2  
(FY2020)  
Must be typed

Date (日付)  
2020/11/10 (Date/Month/Year: 日/月/年)

### Activity Report -Science Dialogue Program-

(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Aa Haeruman Azam (ID No. P20104 )

- Name and title of the accompanying person (講義補助者の職・氏名)

Mr. Tomohumi Kawaguchi

- Participating school (学校名): Utsunomiya Girls' High School (UJK)

- Date (実施日時): 02/11/2020 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Exploiting CRISPR-Cas13a to develop a novel agent which selectively kills drug-resistant *Staphylococcus aureus*.

- Lecture format (講義形式):

◆Lecture time (講義時間) 40 min (分), Q&A time (質疑応答時間) 20 min (分)

◆Lecture style(ex.: used projector, conducted experiments)

(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))

projector

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

**The lecture was divided into three sections:**

#### **A. Introduction into my country of origin**

The lecture was started with the introduction about my country, Indonesia. I use some interesting fun facts to stimulate students curiosity and invited them to answer some interesting questions. The purpose of this section was to give students an understanding of global community and help them to have more interest in international understanding. I focused my talk into: (1). Geographical location of Indonesia, (2). Culture and diversity, and (3). Tourism. Students were very excited especially after knowing some rare culture such as a very unique exotic food and beverage that are native to Indonesia.

#### **B. Academic background**

I talked about my academic background which include achievement during my study and what motivate me to pursue a doctoral degree. The purpose of this section was to make students more interested in science and motivate them to

become a scientist. As my PhD degree was obtained in Japan, I emphasized that Japan has many outstanding research group widespread in many universities. The students can choose whatever they want to study using various cutting-edge technologies in this country.

#### C. Current research

Finally, I shared my research topic about genome editing using CRISPR-Cas system. I use many animations and I inserted some Japanese vocabularies to clarify the meaning of certain terminologies. I pointed out some fun fact, such as: (1). CRISPR-Cas system amazed so many people and so swiftly that just eight years after they discovered it, two female scientist, Jennifer Doudna and Emmanuelle Charpentier took home the 2020 Nobel Prize in chemistry for their finding of genetic engineering using CRISPR-Cas9, (2). A Japanese scientist from Kyushu University is the first person who discover CRISPR DNA, and (3). No Japanese female has ever won Nobel prize so far, so I emphasized that they could be the one in the near future.

Some students were very enthusiastic and were able to give interesting questions in English during Question and Answer section.

◆Other noteworthy information (その他特筆すべき事項):