

Form B-2
(FY2020)
Must be typed

Date (日付)
19/11/2020 (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): Fabian Hia (ID No. P20115)

- Name and title of the accompanying person (講義補助者の職・氏名)
Not present (Zoom-based lecture)

- Participating school (学校名): Akashi Kita Senior High School

- Date (実施日時): 19/11/2020 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
Akashi Kita Senior High School

- Lecture format (講義形式):

◆Lecture time (講義時間) 85 min (分), Q&A time (質疑応答時間) 15 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))

Zoom-based presentation

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

The lecture was divided into two parts. The first part was focused on the introduction of the speaker, his home country (Singapore) and his motivation to be a scientist. The second part was focused on the speaker's research in molecular biology. The speaker's research in molecular biology deals with how proteins are regulated and made through the process of translation. In translation, cells produce proteins using information contained in the form of RNA. This particular information is coded in RNA in the form of three nucleotide bases known as codons. Many codons can code for a single amino acid, in a system known as redundancy. Codons which code for the same amino acid are known as synonymous codons. One of the prevailing questions about translation is the importance of synonymous codons. The assumption therefore is that changing codons of an RNA which codes for a protein via synonymous codon substitutions, while preserving its protein identity can affect how much proteins are produced. The speaker's research deals with investigating how changing these codons affects the structure of proteins, how fast proteins are made and how the system can be exploited to produce high quality proteins in large quantities. The lecture was ended with two slides which emphasized the importance of learning English as a key medium of communication as well as the importance of having an international

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outlook. This was followed by a 15 minute question and answer session.

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

Due to coronavirus restrictions, the lecture was held online through the zoom platform.

- Impressions and comments from the accompanying person (講義補助者の方から、本事業に対する意見・感想等がありましたら、お願いいたします.):

Not present (Zoom-based lecture)