

様式 A-1
(FY2024)

令和6年12月18日

サイエンス・ダイアログ 実施報告書

1. 学校名・実施責任者氏名: 千葉県立薬園台高等学校・秋山和哉
2. 講師氏名: Dr. Kang Ju LEE
3. 講義補助者氏名: なし
4. 実施日時: 令和6年12月13日 (金) 13:30 ~ 15:00
5. 参加生徒: 1 年生 25 人、 2 年生 7 人、 3 年生 0 人 (合計 32 人)
備考: (例: 普通科の生徒)
6. 講義題目: Peptide Drug Candidate Discovery Using mRNA Display
7. 講義概要:
- ・研究者になった理由について
 - ・母国(韓国)の歴史と研究のための背景、文化等
 - ・韓国と日本の関係について
 - ・日本に来た理由
 - ・研究内容について
 - ・科学者になりたいなら
 - ・質疑応答
 - ・交流
8. 講義形式:
☒ 対面 ・ ☐ オンライン (どちらか選択ください。)
- 1) 講義時間 60 分 質疑応答時間 30 分
- 2) 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)
プロジェクター使用による講義
- 3) 事前学習
有
使用教材 講師の方から共有して頂いた講義スライド、要旨、キーワード集)
9. その他特筆すべき事項:

Form B-2
(FY2024)
Must be typed

Date (日付)
14/12/2024 (Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ 実施報告書)

- Fellow's name (講師氏名): LEE Kang Ju (ID No. P24035)

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

- Participating school (学校名): Chiba Prefectural Yakuendai High School

- Date (実施日時): 13/12/2024 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Peptide Drug Candidate Discovery Using mRNA Display

- Lecture format (講義形式):

◆ ☒ Onsite ・ ☐ Online (Please choose one.)(対面 ・ オンライン)((どちらか選択ください。))

◆ Lecture time (講義時間) 60 min (分), Q&A time (質疑応答時間) 30 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))

Used projector

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

My lecture was divided into three sections. i) self-introduction, ii) science talk, and iii) my life as a researcher. In the first section, I summarized my background, my career journey, and my motivation for becoming a scientist. I also introduced geographic and cultural information about Korea, highlighting the cultural differences compared to Japan. In this section, I attempted to have the students interested in Korea and Korean culture. In the second section, I introduced the core technology that I am currently using in the laboratory—mRNA display. To help high school students understand, I began the story with fundamental biochemistry. I briefly covered topics such as the structure/function of proteins, the central dogma, and ribosomal peptide synthesis. Next, I explained the concept and strategy behind discovering peptide drug candidates using mRNA display technology. This part was likely difficult for high school students to fully understand, but I aimed to give them an impression of what research area I am currently involved in. I concluded this section by showcasing my actual research results. In the last section, I discussed the pros and cons of life as a researcher. While emphasizing the pleasure of conducting research and studying science, I also explained the practical drawbacks and responsibilities that come with living as a scientist. Lastly, I closed my talk by outlining the qualities required to become a scientist.

I particularly emphasized a passion for science and learning English. Following my talk, we had a Q&A session, and several students actively participated. They made an effort to express their questions in English, and I answered their question based on my own perspective and experiences.

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

The teachers encouraged and supported the students in communicating with me, which made the Q&A session more active and enjoyable.

- Impressions and comments from the lecture assistant (講義補助者の方から、本プログラムに対する意見・感想等がありましたら、お願いいたします。):