

様式 A-1
(FY2025)

2025 年 12 月 24 日

サイエンス・ダイアログ 実施報告書

1. 学校名: 千葉市立千葉高等学校
2. 講師氏名: Gabriel Tai HUYNH
3. 講義補助者氏名: なし
4. 実施日時: 2025 年 12 月 23 日 (火) 13 : 45 ~ 15 : 45
5. 参加生徒: 1 年生理数科 16 人、1 年生普通科 2 人、2 年生理数科 7 人、2 年生普通科 1 人 (合計 26 人)
6. 講義題目: バクテリア感染症を簡便かつ早期に検出できる機能性高分子材料の開発
7. 講義概要: 薬剤耐性菌の原因となる感染細菌を特定するためのバイオセンサーを作成する
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 100 分 質疑応答時間 20 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、持ち込みのアガープレートを用いた培養実験
 - 3) 事前学習
 有 ・ 無 (どちらか選択ください。)
使用教材: 講師からもらった情報をもとに本校職員が作成したプリント、カフートをを用いたクイズなど
9. その他特筆すべき事項:
特になし。

Form B-2
(FY2025)
Must be typed

Date (日付)
01 / 01 / 2026 (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): Gabriel Tai HUYNH (ID No. P24737)

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

N/A

- Participating school (学校名): Chiba Municipal Chiba High School

- Date (実施日時): 23 / 12 / 2025 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Fighting the rise of antimicrobial resistance bacteria – why is *early detection* important

- 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) 90 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))

PowerPoint slides with projector, and classroom experiment on culturing bacteria

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

Antimicrobial resistance (AMR) bacteria is an ongoing threat to the global healthcare economy, where the World Health Organization has estimated that more than 1.27 million associated deaths were caused by AMR. This is due to the misuse of medication, where many bacteria develop an immunity towards common medication, making them more difficult to treat. Therefore, the presentation was focused on the importance of early detection and why it is important to minimise the rise of antimicrobial resistance bacteria.

The presented lecture was divided into three sections: 1) a self-introduction of the Fellow and how I started my scientific journey and my reasons in moving aboard from my home country, 2) A background into antimicrobial resistance and how does it occur, and why my research in early detection is important; and 3) a practical experiment where the students learn how to grow bacteria; while showing them live bacteria cultures – highlighting the differences in colour, shape, and other key features when identifying bacteria.

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

The students at Chiba High School have exceptional English comprehension skills. Additionally, intertwining English and Japanese during the presentation and questions and answers helped the students to feel comfortable when participating during and at the end of each section.

The teachers at Chiba Municipal Chiba High School were very accommodating with the preparation with live demonstration, where we were able to show students live bacteria safety, while allowing the students to receive their experimental results days following the live demonstration.

- 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。):

N/a