

様式 A-1  
(FY2024)

令和6 年 12 月 25 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: 千葉県立千葉高等学校、主幹教諭 田中 航祐
2. 講師氏名: Dr. Bonita Lynn MCCUAIG
3. 講義補助者氏名:
4. 実施日時: 令和6 年 12 月 18 日 (水) 9 : 00 ~ 11 : 00
5. 参加生徒: 1 年生 310 人、 2 年生 305 人、 3 年生 50 人 (合計 665 人)  
備考: (例: 理数科の生徒)
6. 講義題目: How the Microbiome Affects the Host Immune System
7. 講義概要: 腸内細菌が免疫システムにおいて果たす役割について
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 90 分 質疑応答時間 15 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 ・ ☒ 無 (どちらかに○をしてください。)  
使用教材
9. その他特筆すべき事項:

**Form B-2**  
**(FY2024)**  
**Must be typed**

Date (日付) 19/12/2024

(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): Bonita McCuaig (ID No.P23735)
- Name and title of the lecture assistant (講義補助者の職・氏名)
- Participating school (学校名): Chiba High School
- Date (実施日時): 18/12/2024 (Date/Month/Year: 日/月/年)
- Lecture title (講義題目):  
How the Microbiome Affects the Host Immune System
- 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) 10 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))  
Projected PowerPoint presentation. Standard lecture style.

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

The first half of my lecture was about Canada, a very brief history and some interesting facts. I then talked about my life, where I grew up, why I chose science, how my career path has gone. I then talked about some general travel tips. I included tips for visiting Canada but also tips about travel in general, explaining some differences in traveling within Japan and traveling in other areas like Europe. The first half of the lecture ended with some reasons to choose science as a career, big reasons such as helping improve life for people around the world but also small reasons like being able to travel for work and meeting people from around the world.

The second half of my presentation was about my current research. I explained the importance of having a healthy gut microbiome and how it affects your health. The gut microbiome can improve your immune system through training and help exclude harmful bacteria you may encounter. An unhealthy gut microbiome can also cause issues throughout the body, like chronic inflammation and autoimmune disease. Gut imbalances are also linked to behaviour and mental health issues.

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

I was very impressed with the high level of English the students possessed. I had many questions following the lecture that were clearly related to my talk and not pre-written before I arrived. I feel the students were actually interested and understood at least the main message of the presentation.

I used an anime that is relevant to my topic to help catch the student's interest. I think that strategy was successful.

- 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。):