

様式 A-1

2026 年 7 月 15 日

サイエンス・ダイアログ 実施報告書

1. 学校名：藤枝明誠高等学校
2. 講師氏名：Sivagnanam Subramaniyan
3. 講義補助者氏名：
4. 実施日時： 2026 年 7 月 10 日（金） 13:05 ～ 15:00
5. 参加生徒： 1 年生 22 人、 2 年生 54 人、 3 年生 23 人（合計 99 人）
備考：（1～3年生国際教養コース、2・3年英数科理系希望者）
6. 講義題目：科学研究や海外で勉強することの重要性
7. 講義概要：インド出身の研究者が、自身の経験をもとに、日本での研究生活やインドの文化、科学研究の魅力について紹介をする。まあ科学分野における進学・キャリアの可能性や。海外で学び研究することの意義についての講義
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 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）
プロジェクターを使用しての講義
 - 3) 事前学習
☐有 ・ ☒無（どちらか選択ください。）
使用教材：
9. その他特筆すべき事項：

Form B-2

Date (日付) 10/07/2026

(Date/Month/Year: 日/月/年)

Must be typed

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

1. Fellow's name (講師氏名): Subramaniyan Sivagnanam
(ID No. P25427)

2. Name and title of the lecture assistant (講義補助者の職・氏名)
Yuta Mochizuki, Science Dialogue Program Coordinator
Fujieda Meisei High School

3. Participating school (学校名): Fujieda Meisei High School

4. Date (実施日時): 10/07/2026
(Date/Month/Year: 日/月/年)

5. 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) 90min (分), Q&A time (質疑応答時間) 30 min (分)

◆ Lecture style: Used projector

(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))

6. Lecture title (講義題目): Exploring the Hidden Wonders of Science: From Microorganisms to the Discovery of Tomorrow's Antibiotics

7. Lecture summary (講義概要):

The lecture introduced high school students to the excitement of science through my personal academic journey and current research. I began by introducing myself and sharing how my interest in chemistry led me from India to Japan, where I am currently conducting research as a JSPS Postdoctoral Research Fellow at Shizuoka University.

The lecture explained, in a simple and engaging manner, what science is, why it is important, and how chemistry helps us understand and improve the world around us. Students learned about amino acids, peptides, proteins, microorganisms, antibiotics, infectious diseases, and antibiotic resistance through easy-to-understand illustrations and everyday examples.

I also introduced my research on discovering new antibiotics from microorganisms through genome mining and lanthipeptide biosynthesis. Rather than focusing on technical details, I explained how scientists search for new medicines and why this research is important for protecting human health and addressing the growing challenge of antibiotic resistance.

In addition, the lecture highlighted similarities and differences between India and Japan, including their cultures, education systems, and scientific collaboration. This demonstrated that science has no borders and that international cooperation is essential for solving global challenges.

Finally, I introduced several Japanese Nobel Prize laureates in the sciences and their discoveries to inspire the students. The lecture concluded with an encouraging message emphasizing curiosity, perseverance, continuous learning, and the importance of pursuing dreams. It was intended to motivate students to appreciate science, recognize its impact on society, and consider future careers in science and research.

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

The lecture was well received by the students, who actively participated throughout the session. Many students showed interest by asking thoughtful questions about science, chemistry, antibiotics, studying abroad, and research opportunities in Japan. The bilingual presentation (English and Japanese) and the use of simple illustrations and infographics helped students understand the scientific concepts more easily. The interactive discussions and comparisons between India and Japan created a friendly atmosphere and encouraged cultural exchange. I hope the lecture inspired students to develop curiosity about science and consider future studies and careers in science and research.

9. 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。):

The lecture assistant commented that the presentation was well organized, engaging, and appropriate for the high school students. The bilingual slides, simple explanations, and interactive discussions helped maintain the students' interest throughout the lecture. The assistant appreciated the opportunity for students to learn about scientific research, international collaboration, and cultural exchange between India and Japan. Overall, the program was considered valuable in encouraging students to develop curiosity about science and to consider future studies and careers in scientific research.

