

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)
09/10/2018 (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): Mareike Wiedmann (ID No.P 16810)

- Participating school (学校名) Hikawa High School (Yamanashi)

- Date (実施日時): 04/10/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): How drugs are made

- Name and title of your accompanying person (講義補助者 職・氏名)
Masanobu Nagano

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 min (分)

◆Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

PowerPoint and Quizzes

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

First of all, I will introduce myself. I will give an introduction to Germany and the United Kingdom. I will have a few quizzes on famous people, food, literature and music and I look forward to your answers. I will then talk about why I became a scientist and which famous scientists inspired me to work in the areas of Chemistry, Biology and Medicine. We will discuss why bacteria are so important and general methods to make new drugs against bacteria and cancer.

I will then give an overview of my current research in Prof Hiroaki Suga's research laboratory at the University of Tokyo. The general process of drug discovery will be discussed and also how drugs work in the body. We will discuss why it is difficult to develop new medicines against cancers and infectious diseases.

I will then give a specific example on how I am developing a new drug against parasitic roundworms (寄生回虫). I will talk about how we identify drug candidates in our research laboratory in Tokyo and how we do the further development to make better drugs. We will discuss how drugs need to be improved until they are safe to be used in humans.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Reduce the level of your science to make it accessible to high school students. Be friendly and motivating – the students will appreciate it.

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

- 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。)

My accompanying person thought it was very useful and fun and he thought it was a great way to “pay back” to the next generation of scientists since we are funded through JSPS.

He also said that he very much enjoyed interacting with the students.