

(For JSPS Fellow)

Form B-5

Date (日付)

02/10/2017 (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): I-Hsuan Wang (ID No. P16416)

- Participating school (学校名): Ichikawa high school

- Date (実施日時): 27/09/2017 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Fight the virus – virus-host interaction under microscopes

- Name and title of your company (同行者 職・氏名)

- Lecture format (講演形式):

◆Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 5-10 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))

Presentation using projector, followed by an experiment session

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

My lecture consisted of 3 parts: my country, my past education, and my research. First, I introduced my country, Taiwan, to the students, including the geography, language, cultural and natural attractions, and the research institutes. Then I talked about my experiences of study aboard and the higher education in Europe, where I received my Master's and Ph.D. degrees. When it came to the scientific part, I first shared with the students my motivation of studying virology, and gave an introduction to my research tool, the microscopy. In the former part, we talked about the common infectious diseases, recent pandemics in Asia, and the antiviral drug and vaccine development. Then we learned about various microscopic approaches employed in virology research, including the fluorescence labeling, time-lapse imaging, super resolution microscopy and electron microscopy. In the end of the presentation, I guided the students through a series of fluorescent microscopy images and movies, and the resulted discoveries in infection mechanism. The presentation was followed by a hands-on session, in which the students had the opportunities to observe tissue sections from various organs and animals by using a portable device that can turn their smart phone into a microscope. This activity is to demonstrate what the samples actually employed in the laboratory are like, and how scientific observation can be possibly done in everyday life.

Must be typed

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Since the students are not used to the presentation in English, probably neither the subjects, it seems to be helpful to include the Japanese translation of the nomenclature in the corresponding slides. In addition, a hands-on session seems to excite them, and help them open up to ask questions and interact more with the lecturer.

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

- Impressions and opinions from a company (同行者の方から、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。)