

Form B-2
(FY2022)
Must be typed

Date (日付)
17/06/2022 (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): Kacenauskaite Laura (ID No. PE20049)

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

Mr. Akita Jun

- Participating school (学校名): Hikawa high school

- Date (実施日時): 17/06/2022 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Light as a tool in research

- 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) 100 min (分), Q&A time (質疑応答時間) 20 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))

Used projector, questions for students to engage

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

A quick look through the first microscope more than 400 year ago revealed that there are an entire microcosmos of small organisms that we have not known before. Even though the first microscopes were enough to observe shapes and bigger organelles inside the cell, significant improvement was necessary to see more details. As one way to improve the resolution of simple microscopes, fluorescence microscopy was suggested. It is a technique based on the phenomenon of the fluorescence: absorption of the light followed by re-radiation or different color. Now the technique of fluorescence microscopy has become an essential tool in biology and the biomedical sciences, as well as in materials science due to features that are not available in traditional optical microscopy. In fact, the fluorescence microscopy is capable of revealing the presence of a single molecule!

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

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※弊会記入欄

- Impressions and comments from the lecture assistant (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。):

Email from English teacher at Hikawa high school:

Dear Laura さん

Thank you for coming all the way to Yamanashi today.

We had a very good time and the students seemed to become stimulated by your lecture.

Although they couldn't understand all the part of your lecture, most of them said it was very interesting.

Thanks to you and Akita-san, they could broaden their horizons.

If you have a chance, please come to Yamanashi again before leaving Japan!

Best regards,

Ei Konno