

Form B-2
(FY2021)
Must be typed

Date (日付)
26/07/2021 (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): Sascha Keller (ID No. P19339)

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

Prof. Dr. Yasuteru Urano

- Participating school (学校名): Chiba Prefectural SAKURA High School

- Date (実施日時): 16/07/2021 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

A short introduction to enzymes and fluorescence, or: how to see cancer.

- 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) 60 min (分), Q&A time (質疑応答時間) 25 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))

Power point presentation, projector used, example of fluorescence in eggshells and spinach shown

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

I gave an introduction about Europe, the European Union, Germany, and Switzerland. I talked about famous foods, places and people and showed some images of famous sights. I also compared their population, area, average life expectancy, average age, languages spoken, number of islands and the living costs to Japan. Then I spoke about myself, different steps of my career, why I decided to become a scientist and why I eventually came to Japan to carry out research. I then discussed some basics of amino acids, proteins and enzymes and carried on discussing basics of medical imaging, light, color, phosphorescence, bioluminescence, and fluorescence. I then showed fluorescence in everyday things as well as experimental extraction of fluorescent molecules from eggs and spinach with the help of two students. I carried on explaining how we can use fluorescence to detect cancers in living tissue and how surgeons can apply this in the effective removal of tumors during surgery.

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※弊会記入欄

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

I really enjoyed the hospitality of the school, all the effort that was put into bringing me there and to talk to the pupils. They were really interested in my culture and also in the science I showed and talked about. Smart questions were asked. I recommend to every JSPS scholarship holder to participate in this very unique possibility to do scientific outreach to young kids and to inspire them to study a scientific subject, as well as teaching them about other cultures first hand.

- 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。):