

(For JSPS Fellow)

Form B-5

Date (日付)

01/12/2017 (dd/mm/yyyy: 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) :
Francois Berenger (ID No. P17051)

- Participating school (学校名): Nobeoka High School, Miyazaki

- Date (実施日時) :
(Date/Month/Year: 日/月/年) 09/11/2017

- Lecture title (講演題目): __(in English) Molecules in silico: the science of Chemoinformatics

__(in Japanese)

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

I gave a lecture about France, Europe and the science of Chemoinformatics.

I have shown some pictures of old castles and cities from France and gave some introduction to the French culture. I also introduced Europe and the Euro zone, which France is a member of.

Finally, I introduced the science of Chemoinformatics, which simply said is computer science applied to problems from the field of chemistry.

I circulated a plastic molecular model of aspirin, so that students can realize that even such a small molecule is quite flexible. I have also shown and circulated a 3D protein-ligand complex of aspirin on my desktop computer, so that students can look at the details, zoom in or out and rotate the model with the mouse.

In my presentation, I have shown several representations of the aspirin molecule, from 1D, to 2D and 3D. I have even shown a video of the molecule in 3D over time, based on a molecular dynamics simulation of the molecule with an implicit solvent model.

I have also shown some of my recent research results and introduced my research topic.

Finally, I described what is my job as a researcher and what they can do in the future if they want to become researchers. I purposely emphasized the importance of English, since research is an international endeavor.

I also gave some tricks to the students so that studying English can be fun and easy.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 20 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))

Video projector furnished by the school. My laptop computer + plastic molecular model of aspirin to circulate to the students. I had around 60 slides to show plus a short video (~30s) of a molecular simulation.

- ◆ Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

I had to give some explanations in Japanese about the most complex slide of my presentation, since one student asked in Japanese about this slide.

- ◆ Name and title of accompanied person (同行者 職・氏名) None

◆ Other note worthy information (その他特筆すべき事項): Sato san, the English teacher from the school was very helpful.

- Impressions and opinions from accompanied person (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。):