

(For JSPS Fellow)

Form B-2  
(FY2018)

Date (日付)  
07/01/2018 (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): Christian GANSER (ID No. P17701 )
- Participating school (学校名): Nagoya City Koyo Senior High School
- Date (実施日時): 18/12/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): High-speed atomic force microscopy: Seeing and feeling proteins in real time
- Name and title of your accompanying person (講義補助者 職・氏名)  
Prof. Takayuki UCHIHASHI
- Lecture format (講演形式):
  - ◆Lecture time (講演時間) 40 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))  
Used projector and Power Point slides
- Lecture summary (講演概要): Please summary your lecture 200-500 words.  
In the first half of the lecture, I introduced my home country Austria and explained about Austrian University life. I gave a short overview of famous scientists from my home country and their biggest achievements. Then, I talked about my impression of living abroad and about what might be important to consider if one wants live in a different country.  
In the second half of the lecture, the focus was on my research on the self-healing ability of microtubules. First, the experimental setup of atomic force microscopy was introduced, followed by the improvements of high-speed atomic force microscopy. Then, the role of microtubules in living organisms was explained. I gave an overview of my experiemental procedures and talked also about length scales to give an impression about the size of single proteins. The lectured was finished with an overview of skills that might be useful for aspiring scientists but are not always taught in school or university (scientific writing, communication, english, computer programming).
- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):  
Advice to future participants: Don't speak too fast; explain (abstract) concepts by using graphical aids such as images and animations and try to create a link to everyday life

Comment to future participants: If you have the chance and the time to give a lecture at a high school, I recommend to do it. While preparation takes a bit of time, I wouldn't have wanted to miss the experience. Especially if you plan to teach in your future career, it will be a valuable lesson (not only for the students, but also for yourself).

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

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- 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。)

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