

(For JSPS Fellow)

Form B-5

Date (日付) 01/9/2014

(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): MD. SHAMIM HOSSAIN (ID No. P 13094)
- Participating school (学校名): Yamanashi Prefectural Yoshida Senior High School
- Date (実施日時): 28/08/2014 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Plasmalogens enhance memory  
(in Japanese)

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

I had started my Lecture with the self introduction and then I talked about my country (Bangladesh). I talked the education system, foods, and culture of my country. The students were surprised to hear about a country that is very different from Japan. I have then explained about my motivation in science and I also explained the reason why I came to Japan. After that, I have talked about my research. During my research presentation, I tried to explain the techniques (western blotting, Immunohistochemistry, etc) that I have used in my experiments in a simple way. I have talked slowly aimed to make them easy to understand the research content. My research topics was related to the Alzheimers disease (AD). I have explained the students about the problem of hippocampus which lead us to the AD. Later, I talked about the Plasmalogens (a special lipid) that can enhance the memory in mice and also in the human (clinical study). With the explanation of the memory mechanism, I have also talked about the molecular biology in brief to explain the cellular signaling that can regulate the expression of genes in the cells.

After my Lecture, students asked me many questions in English that made me happy because I realized that they could understand my lecture. I have tried to give the answer according to my research experiences and study. My boss Dr. Toshihiko Katafuchi and the school teacher Miki Kobayashi helped me very much all through the Lecture.

- 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) 30 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))

Projector only

---

- ◆ 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))
- 

- ◆ Name and title of accompanied person (同行者 職・氏名)

Toshihiko Katafuchi, Associate Professor

---

- ◆ Other note worthy information (その他特筆すべき事項):
- 

- 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。):