

(For JSPS Fellow)

Form B-5

Date (日付) 29/06/2016

(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): Asrar Alam (ID No. P15415)
- Participating school (学校名): Wakasa High school, Obama, Fukui
- Date (実施日時): 24/06/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Drug and vaccine development against malaria
(in Japanese) マラリアに対する医薬品およびワクチン開発
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

My lecture was intended to make the students aware about the scientific career in general and give an generalized overview of my research field. I started the lecture with the slides showing some major and interesting inventions and breakthroughs in science to draw the attention of students. I further explained how some of the scientific inventions are saving millions and billions of lives worldwide, specifically focussing on the vaccine-related breakthroughs. Then, I explained the global burden of infectious diases and especially malaria and why I chose to work on malaria. I explained the life cycle of the malaria parasite with the use of a video and diagram. After that I talked about antimalarial drugs, need for new drugs the parasite processes which could be targeted followed by the drug development pipeline.

After talking about drugs, I shifted the focus on vaccines. I explained the functioning of the human immune system with the use of an interesting video and a figure. After that I talked about the history of the first vaccine used by Edward Jenner. I gave a generalized overview about the current malaria vaccine and its basic design. I also talked about my previous and current research in the field of malaria drug target identification and vaccine development, repectively, in a very generalized way.

Overall, my lecture was focused on generalized projection of major scientific breakthroughs, importance of biomedical research and the research on malaria drug an vaccine development.
- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 75 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))

Used projector

◆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))

Assisted in Japanese translation by the school staff

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

◆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。):