

(For JSPS Fellow)

Form B-5

Date (日付)

12/10/2011 (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): Jonathan TAN (ID No. P09746)

- Participating school (学校名): Takefu Senior High School, Echizen City, Fukui Prefecture

- Date (実施日時): 11/7/2011 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Making artificial immune tissue

(in Japanese) 人工免疫組織を作る

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

My lecture covered the basics of what immunology is, in terms of common illnesses and how our body responds to them. For example, when we get sick, we get symptoms such as sneezing, fever and sore throats. This was explained in terms of what our body, or more specifically our immune system is doing to repel germs. I briefly covered the components of our immune system from tissues to different cells, and used this to illustrate sequential events in an immune response which occur if a pathogen gets inside our body. I concluded the introduction by discussing common health topics such as vaccinations, antibiotics and allergies, and how they shape our immune response.

I next talked about my research making artificial spleen. This was commenced by an introduction of what spleen is, its basic shape, properties and function. I then described the rationale behind making artificial spleen, a basic overview of experimental procedures used, key results from the study and finally future experiments. I planned to briefly explain what life as researcher was like but ran out of time.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 10 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 by colleague

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

Professor Takeshi WATANABE, Research Group Leader

- ◆Other note worthy information (その他特筆すべき事項):
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- 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。): Was very helpful in translating questions from Japanese and summarizing the lecture in Japanese.