

(For JSPS Fellow)

Form B-5

Date (日付)

23/1/2012 (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): James Wing (ID No. P10426)

- Participating school (学校名): Wakayama Prefectural Koyo High School

- Date (実施日時): 13/1/2012 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) T-regulatory cells: policemen of the immune system

(in Japanese) 制御性 T 細胞: 免疫システムの管理人

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

The immune system protects us from threats such as bacteria, viruses and cancer. Within the immune system there are a number of types of cells that have specialized functions. Two important cell types are T-cells and B-cells. T-cells control other cells of the immune system and a particular type of T-cell, called the T-regulatory cell (Treg), prevents other cells from becoming over-activated and attacking our own body. Without Tregs a person would suffer from fatal auto-immune disease. B-cells produce antibodies which are specialized proteins that stick to bacteria or viruses and tell other cells to attack them. B-cells also help to stimulate T-cells. I study the interactions between B-cells and Tregs and how Tregs can control B-cell function. The lecture consisted of an explanation of this work and some of the techniques that we use in order to obtain the results that were shown. Additionally I included some information on my home country my reasons for becoming a scientist and how they might also become scientists. I have included a copy of the talk with this form

- Language used (使用言語): English

- Lecture format (講演形式): Powerpoint presentation

◆Lecture time (講演時間) 50 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))

Powerpoint presentation

◆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))

Ms. Kitagawa translated the questions from the students in the Q&A session and also my answers to them, she also explained some points that the students were unsure about in

Japanese.

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

Ms. Yohko Kitagawa- PhD student

◆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。): I was happy to be given the chance to attend the lecture and translate parts of it to the students, while the students English was good they were a little embarrassed to speak so were more comfortable asking questions mostly in Japanese. I was glad that I was able to help the students understand the topic.