

(For JSPS Fellow)

Form B-5

Date (日付)

26/Dec/2013 (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): Chuan-Ming Yeh (ID No. P12210)

- Participating school (学校名): 清真学園高等学校・中学校

- Date (実施日時): 18/Dec/2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Plant defense responses to environmental stresses

(in Japanese)

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

At the beginning, I gave a brief introduction of my country (Taiwan), hometown and multi-cultures in Taiwan. Then I introduced my education background and shared my research experiences on phytoremediation in Taiwan, because this technology is helpful for cleanup of Fukushima Power Plant. Also, I showed some practical applications of this technology in the world. Next, I attracted the students to notice the effects of global climate changes on Agricultural production. The global population will probably increase by more than 3 billion to over 9 billion by 2050. This will lead to a much greater demand for food crop production. Unfortunately, many agricultural lands suffer from extreme environmental stress conditions, limiting their utilization and efficiency. To support the increasing demand for food crop production, it is needed to improve crop yields or extend the area of agricultural lands. Therefore, I introduced how to find some useful genes for creating stress-tolerant transgenic crops to increase food production. Furthermore, I also mentioned that I concern some environmental protection issues and encourage the students to aware the importance. Finally, I interpreted my reasons to be a scientist and how did I choose my research fields and what contributions do I expect to make for human society by my research in the future. I encouraged the students to have a science dream and try their best to make the dream come true.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 85 min (分), Q&A time (質疑応答時間) 15 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 took some plant materials for demonstration

- ◆ 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))

assistance by the school teacher and provided simple Japanese explanation by myself

- ◆ 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。):