

(For JSPS Fellow)

Form B-5

Date (日付)

21 August 2014

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): RICO GAMUYAO (ID No. P13386)
- Participating school (学校名): Shizuoka Prefectural Hamamatsu Minami High School
- Date (実施日時): 18 August 2014
- Lecture title (講演題目): What's in a bowl of rice? (Understanding rice through analysis of gene functions)
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Rice is an important food source for more than half of the people in the world. To support the demand of the inevitably growing population, rice production must therefore be increased. In this lecture, the speaker shared his experiences in rice research, mainly involving studies of gene functions in different aspects of rice growth. The talk aimed to entice the high school students by featuring the importance of molecular biology and genetics in the field of agriculture, with rice as the crop of focus. He showed excerpts of his involvement in previous research activities and in the current host laboratory at Nagoya University. Some of the questions that were tackled during the lecture are: How are grains formed in the rice plant? How does a plant hormone affect the expression of certain genes in leaves? What are the efforts being done to enhance rice productivity in low phosphorus soil? How does the rice stem elongate in response to deepwater condition? Can rice research further contribute to food security? At the end of the lecture, the speaker hoped that the students will appreciate more the bowl of rice which they are having almost everyday on the their tables, as well as know some of the many interesting stories behind before rice reaches their bowls.

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 70 min, Q&A time (質疑応答時間) 20 min
 - ◆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 using a 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))
English to Japanese and Japanese to English translation by a colleague in the host laboratory

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

Dr. Tomoyuki Furuta

◆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。):