

(For JSPS Fellow)

Form B-5

Date (日付)

4/June/2013

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): Taeksi Matsuyama Hoyos (ID No. P12391)
- Participating school (学校名): Mukogawa Women's University Junior & Senior High School
- Date (実施日時) 1/June/2013
- Lecture title (講演題目): (in English) Molecular mechanism of visual and non-visual functions
(in Japanese) 視覚・非視覚機能の分子メカニズム
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

I introduced my self, providing a little background about Colombia, my country of origin. I talked about my experience learning English as a second language, and gave them some advise on learning English. I also told them that it was important to be brave and try to communicate even when they are not sure of their language skills. I explained some of the differences between Colombia and Japan, giving some cultural background and comments about my experience as a foreigner in Japan. I then talked about the natural diversity of Colombia, giving some concrete examples of exotic animals to illustrate the rich and diverse nature of Colombia. I then explained that I was interested in understanding the mechanism behind this diversity, and that this was the very reason that compelled me to come to Japan to do research. I then proceeded to explain my field of research, giving examples of the most popular findings of the field, such as the evolution of human vision, different types of vision in different animals, and the relation between vision and olfaction. I also explained the basic concepts and background to my research, briefly introducing students to the latest topics of my research. This was an introduction to irradiance detection, which is a non-visual function performed by the eye. I explained its physiological importance, how it maybe affecting modern humans who live under artificial lighting and under an artificial sleep-wake cycle. I concluded my lecture with a message about the role of experiments, and why I am passionate about science.

- 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) 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
 - ◆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))

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。)