

(For JSPS Fellow)

Form B-5

Date (日付)

23/02/2015 (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): Elia Marin (ID No. P14783 )- Participating school (学校名): Kyoto Prefectural Yamashiro High School- Date (実施日時): 07/02/2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Introduction to biomaterials for prosthetic implants(in Japanese)

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

The presentation was divided in three different parts. The first part was a brief presentation about my birthplace in Italy, mainly about the history, the mosaic school and the judo club, and some differences between Italy and Japan, related to sports and food. Then I presented some data about myself and my study life.

In the second part of the presentation I introduced latin language as the first "world language" and briefly explained the history of Europe at the time of Roman Empire. I then showed the new "world language" by confronting Italian, Japanese, Chinese and English. I showed how Chinese is the most spoken language, but only inside Chinese communities. For this reason English is a better candidate for being a world language.

In the main part of the presentation I introduced biomaterials by their dictionary definition. I then divided biomaterials into metallic, ceramic and polymeric, explaining the main differences and the possible chemical compositions. I also showed that only few elements can be used inside the human body without risks. I then showed the risks of rejection, infection, inflammation depending on the patient and the material. In the final part I showed the morphologies and characteristics of the cutting edge hip prosthetic implants and spoke about the importance of osteointegration of the implant inside human body.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 75 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))

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))

Assistance by accompanied person

Must be typed

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

Prof. Giuseppe Pezzotti

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◆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。):