

(For JSPS Fellow)

Form B-5

Date (日付)

15/06/2016 (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): Elena Valverde Murillo (ID No. P15340)
- Participating school (学校名): Fujishima High School (Fukui)
- Date (実施日時): 09/06/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Fluorine in Medicinal Chemistry
(in Japanese)
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Drug Discovery is a process that revolves around the development of new effective and safe drugs that solve unmet clinical needs. With several of the best selling drugs in the world crucially containing fluorine atoms, the incorporation of fluorine into drug candidates has become an essential practice in pharmaceutical research, especially for drug design and discovery where medicinal chemistry comes into play. The high attractiveness of fluorine lies in the changes in the physicochemical properties the new molecule brings when put into the biological environment of the human body. Due to the unique and particular properties of the fluorine atom, its introduction to a given molecule needs of sophisticated synthetic methods, which remains challenging for the scientific community.

The research that I am conducting at RIKEN (Wakōshi, Saitama prefecture) under the JSPS program entails the incorporation of the trifluoromethyl group to alkenes to construct appealing scaffolds with high interest in medicinal chemistry. Hence, the lecture provided an overview of the role of fluorine in pharmaceutical science, and a more detailed explanation of my research in Japan will be covered. In addition, I talked about my scientific background (why I ended up doing chemistry, in particular medicinal chemistry) as well as some cultural features of my country (Catalonia, Spain). Finally, I explained the reason why I came to Japan. Let's enjoy science!

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間) 20 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))

Assistance by Japanese teacher from Fujishima High School

- ◆ 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):
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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。):