

(For JSPS Fellow)

Form B-5

Date (日付)

15/06/2015 (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): Federico Perche (ID No. P14352)- Participating school (学校名): Tsukuba Jr & Sr High school- Date (実施日時): 13/06/2015 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Targeted therapies against cancer(in Japanese)

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

I presented my background, how my life interests are met in my current job and how it is like to work in research insisting on advantages/benefits. To introduce my research i insisted on the gradual transformation at the physiological and genetic levels of a normal tissue to a cancerous tissue, insiting on the treatment possibilities to prevent or revert this conversion. I first spoke about dendritic cell-targeted mRNA cancer vaccines. This was followed with a presentation on cancer cell-targeted micelles and liposomes to increase the therapeutic activity of anticancer drugs. Tumor targeting was completed by presenting data on activation of nanocarriers by stimuli present in the cancer environment, particularly tumor hypoxia-activatable siRNA nanocarrier. Finally, i insisted on the requirement for proper intracellular localization of anticancer drugs for enhanced therapeutic activity, with a focus on subcellular siRNA targeting to its active site. My lecture was made with powerpoint, i tried to show detailed explanatory schemes. The lecture was followed by questions from students; with actually no questions on my research but vague personal questions.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 80 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, 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))

Myself. Played a youtube video of my advisor Pr Kataoka on nanomedicine

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

noone

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◆Other note worthy information (その他特筆すべき事項):

none

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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。):