

(For JSPS Fellow)

Form B-5

Date (日付)

19/11/16 (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): Víctor López Davila (ID No. P15418)- Participating school (学校名): Gifu Prefectural Kamo High School- Date (実施日時): 14/11/16 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): Tissue Engineering of the Heart (in English)(in Japanese) 心臓組織工学

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

I work with induced pluripotent stem cells (iPS cells) at the Center for iPS cell research and application (CiRA), at Kyoto University. I shared with the students where I come from and a little bit of my research background in other research topics before I focused on my current research. In my current work, I differentiate iPS cells into different types of cardiovascular cells to create what we call human iPS cell-derived cardiac tissues (HiCTs), which are fabricated by stacking several cell sheets made of these differentiated cells. HiCTs can beat spontaneously and the goal of my research is to study and characterize the force they generate, as well as the effect of mechanical and electrical training on the mechanical and functional properties of the tissue. I shared with the students some of the techniques we use in the field and some of the results I obtained over the last months.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 105 min (分), Q&A time (質疑応答時間) 10 min (during break) (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 through a projector and expanded the concepts on a blackboard

◆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))

I had some help translating the main concepts from the high school staff before and during the lecture

◆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):

Students were briefed on the main concepts in English but also on the scientific background of iPS cells by their science teacher days before I arrived.

- 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。):