

(For JSPS Fellow)

Form B-5

Date (日付)

26/07/2016 (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): BYUNGHYUN CHO (ID No. P15405)- Participating school (学校名): Ikedagakuen Ikeda Junior-Senior High School (Kagoshima)- Date (実施日時): 11/07/2016 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Introduction to Image-guided surgery for minimally invasive surgery(in Japanese) 低侵襲手術のための画像誘導下手術支援システム

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

Surgeons have traditionally performed procedures to treat diseases such by gaining direct access to the internal structures involved, and using direct visual inspection to diagnose and treat the defects. However, today, surgeons are using computerized technologies to help fight diseases in the operating room. Image-guided surgery (IGS) is an important example, which is the general term used for any surgical procedure where the surgeon employs tracked surgical instruments in conjunction with pre-operative or intra-operative images such as CT and Magnetic MRI in order to indirectly guide the procedure because it helps surgeons perform safer and less invasive procedures. In this lecture, I will introduce our recent works about IGS and how to conduct research at Kyushu university hospital.

- Language used (使用言語): English, Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 80 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))

Presenstation using the display and demonstration

◆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

◆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):

Must be typed

- 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。):