

Form B-5

Date (日付)

7/5/12

(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): CHAN-IT WISOOT (ID No. P11414 )

- Participating school (学校名): Namiki High School

- Date (実施日時): 2/5/12 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Gene Therapy

(in Japanese) 遺伝子治療

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

Gene therapy is the introduction of genes into existing cells to prevent or cure a wide range of diseases. The most common form of gene therapy involves using DNA that encodes a functional, therapeutic gene in order to replace or correct a mutated gene. In gene therapy, DNA that encodes a therapeutic protein is packaged within a "vector", which is used to get the DNA inside cells within the body. Once inside, the DNA becomes expressed by the cell machinery, resulting in the production of therapeutic protein, which in turn treats the patient's disease. In this lecture I described (1) the concept of gene therapy, (2) how gene therapy works, (3) types of gene therapy, (4) vectors in gene therapy, and (5) the success stories of gene therapy. I also gave a short presentation about Thailand, and another one about the becoming a scientist and the life of a researcher.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 55 min (分), Q&A time (質疑応答時間) 10 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))

Power Point presentation via 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 accompanied person

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

Instructor. Dr. Sone Takefumi

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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。):

Dr. Sone felt that most of the students paid a good attention to during presentation, although the lecture's theme seemed slightly difficult for the student to clearly imagine the whole research that we do. I did not expect students to understand all things that I presented, but the most important thing that I pointed out to them was encouraging them to find out what they want to be in future and get prepared for that. There are many ways to become scientists in the field of medical sciences. I believe that my lecture opened ideas for students who have interest in medical research.