

(For JSPS Fellow)

Form B-5

Date (日付)

25/10/2014 (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): Angel TAN (ID No. P14720)

- Participating school (学校名): Urawa Daiichi Girls' Senior High School

- Date (実施日時): 25/10/2014 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Nanomedicine: Creating Macroscale Impacts through Nanoscale Features

(in Japanese) ナノ粒子技術

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

The art of biology is perfected at the nanoscale, for example, the diameter of a haemoglobin molecule is 5.5 nanometers; a strand of DNA is about 2 nanometers. This is seen as the driver for the application of nanotechnology in the medicinal field, of what we called "nanomedicine" today. In this lecture, Dr. Angel Tan will showcase the importance of nanoscale features in pharmaceutical research, and how nanostructured biomaterials can be used to change the way that we take medicines and pose impacts in the pharmaceutical industry.

- Language used (使用言語): English (some written Japanese translation used in PowerPoint)

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 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 slide presentation; Scientific game and quizzes; Interactive Q&A

◆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))

Assisted by a host teacher and an accompanied lab member

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

Miss Sayaka TACHIZAWA (undergraduate 4<sup>th</sup> year)

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

80 Super Science students attended the lecture. The students have demonstrated impressive interaction and motivation during the game, quiz and Q&A sessions. More than 90% of communication was performed in English. Such outcomes are seen as a combined result of the students' vibrant personality and the teachers' guidance. Presentation files (PowerPoint, videos and photos) were shared via Dropbox.

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。): First time to assist a foreign researcher to deliver lecture at a high school. Interesting, Realize the importance to further improve English communication skill