

Form 3

Date (日付)

5/11/2010 (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 (参加外国人研究者氏名): Simin Rahighi (ID No. P 09312)

Participating school (参加機関 (受入学校名)): Yokohama Science Frontier High School

Date (実施日時): 27/10/2010 (Date/Month/Year: 日/月/年) Time: from 9 : 00 to 16 : 00
28/10/2010 11:00 to 15:00

Lecture title (講演題目): (in English) Protein Crystallography: a tool to understand protein structures at atomic levels

(in Japanese)

Lecture summary (講演概要): Proteins are very important components of our cells and needed for many functions in the body. They contribute to almost all cellular functions such as growth and repair of the cells. Interestingly, function of each protein is dependent on its "tertiary structure". Any change in the structure of a particular protein results in its malfunction which can lead to disease occurrence. So, it is very important to get clear understanding of the proteins structures. Currently, the most powerful approach to get such knowledge is "protein X-ray crystallography". In this lecture I will simply and briefly introduce this technique including some notes on how to grow protein crystals and what kind of information can be obtained by solving crystal structures.

Language used (使用言語): English

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 (examples: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、プレ実験など))

Power point slides and students were provided with printed handouts.

Interpreter (example: assistance by host or colleague, provided Japanese explanation by yourself)

(通訳 (例: 受入研究者によるサポート、外国人研究者本人による日本語説明))

My colleague assisted for Japanese interpretation

Name and title of assistant (協力者 職・氏名) (example: host or colleague)

Mr Kensuke Nakamura

○Other noteworthy information (その他特筆すべき事項):
Impressions and opinions of assistant (協力者から本事業に対する意見・感想等がございましたら、お願いいたします)