

(For JSPS  
fellow)

Form 3

Date (日付)

14 / 11 / 2009

**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): Julius Joseph Mbuna (ID No. P 08035)

Participating school (参加機関(受入学校名)): Nobeoka High School

Date (実施日時): 12/11/2009 Time: From 14 :00 to 16:00

Lecture title (講演題目): (in English)

First part: Tanzania: Land of Kilimanjaro and Zanzibar

Second part: Development of a Separation Method for Anticancer Drugs and its Application

Lecture summary (講演概要):

The first part introduced Tanzania to the students, showing its people, population, culture and resources. It highlighted the uniqueness of the country and encouraged the students to make a visit. The second part showed the crucial roles played by analytical chemists in the society and introduced the students to a separation technique known as capillary electrophoresis. Capillary electrophoresis was used to separate anticancer drugs and finally the method applied to the separation of anticancer drugs in human cancer cells (from the lungs and bone marrow). Findings showed that cancerous cells effuse (excrete) anticancer drugs but the effusion is less under constant exposure of cells to drugs. It was also established that different types of cancerous cells respond differently to anthracyclines.

Language used (使用言語): English

Lecture format (講演形式):

Lecture time

First part (講演時間) 45 min (分), Q&A time (質疑応答時間) 5 min (分)

Second part (講演時間) 45 min (分), Q&A time (質疑応答時間) 5 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))

Used multimedia projector

○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))

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

Ass. Prof. Takeshi Kaneta

○Other note worthy 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。):

Prof. Kaneta was very helpful in the preparation of the Lecture: He inserted keywords in Japanese on the powerpoint slides to enhance Listeners understanding. He also offered translations (Japanese-English) during the lecture.

Prof. Kaneta was impressed by how warmly the students received the lecture. He suggested that University professors as well, need such an opportunity of meeting High school students, as they are their potential clients in the near future when students enroll in universities.