

(For JSPS fellow)

Form 3

Date (日付)

14-15/November/2009 (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): Márta Juhász (ID No. P09706)

Participating school (参加機関 (受入学校名)): Takasaki High School, Gunma Prefecture

Date (実施日時): 14/November/2009 (Date/Month/Year: 日/月/年) Time: from 13:00 to 15:50

Lecture title (講演題目): (in English) Relation between Hungary and Vitamin C

(in Japanese) ハンガリーとビタミンCの関係

Lecture summary (講演概要):

In the presentation, I showed my home-country, our culture and famous Hungarian Scientists, among others Albert von Szent-Györgyi, who won the Nobel Prize partly because he isolated Vitamin C in great quantity from paprika growing in Szeged, where I spent my university and doctoral students years. Vitamin C which is world-wide and so is acquaintance for most of the people all over the world is an important biologically active organic compound, because it prevents our body system to catch a cold or scurvy and saves from the different oxidating agents, radicals which are dangerous for our system, health. Among other things, thermal decomposition of Vitamin C is investigated in Professor Fujii's Laboratory, besides that of several other organic, inorganic compounds. We use different apparatus to do these types of experiments, measurements carrying out computational calculations as a theoretical complementary approach. From these obtained data, we can tell how a sample decomposes, at which temperature; we can define its shelf-life time, stability. These are important to investigate the drugs' metabolism in the body system in the Clinical area and also substantial in the Pharmacy area to generate drugs which are enough stables to storage for long time in the shelves.

Language used (使用言語): English

Lecture format (講演形式):

○Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 110 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 projector, explanation at the blackboard, did experiment.

○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))

assistance by English teacher, provided Japanese explanation by English teacher.

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

Mr. Toshiaki Tsukui English teacher in Takasaki High School.

○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。):

I met Mr. Tsukui on Science Camp organized on 14-15th November, 2009 in Takasaki High School. I got the impression that Mr. Tsukui is friendly and intelligent. He was helpful during my presentation and both before and after it also. When I had anything to know I felt free to ask him. He provided correct translation when it was necessary in the lecture. The items what I have asked were ensured.

In short, the kindly helpful and warm welcome from Mr. Tsukui also contributed to the feeling that I could enjoy very much each moment of Science Camp and had a wonderful time there.