

(For JSPS Fellow)

Form B-5

Date (日付)

13/10/2015 (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): Aksara THONGPRACHUM (ID No. P15117)
- Participating school (学校名): Gunma Prefectural Takasaki Girl' High School
- Date (実施日時): 7/10/2015 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) The research on viral gastroenteritis infection  
(in Japanese) ウイルス性胃腸炎の研究
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture focused on the reseach on viral gastroenteritis in Japan and Asia. Acute gastroenteritis continues to be a major public health problem worldwide including Japan. A wide variety of viruses associated with the disease are continually being reported. Norovirus is a major cause of gastroenteritis and most commonly associated with outbreaks. In October 2012, an outbreak of acute gastroenteritis due to norovirus occurred and still continues in many places. The aims of my research are to investigate the epidemiological situation of diarrheal virus infections and the genetic diversity of norovirus circulating in Japanese patients. Norovirus was the most important pathogens detected in almost half of investigated cases. Interestingly, norovirus GII.4 new variant 2012 (Sydney\_2012) was also found in Japanese population. The Sydney\_2012 variant has been responsible for the majority of norovirus infections since 2012 until now. Analysis of capsid gene showed a high level of diversity compared with other variants in four amino acid changes at the antigenic sites. It might be possible that the change of capsid gene especially the binding specificity in norovirus variants lead virus escape from the present human immune system against norovirus infection.

- 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) 40 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 presenatation with 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))

The english teacher of Takasaki' high school helped in translation sometimes

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

None

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

All participants were intent and participated in the discussion about the research and how become a scientist. Many students are good in English and interesting in Medical filed.

- 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。):