

(For JSPS Fellow)

Form B-5

Date (日付)

20/02/2015 (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): Alexander Holm Viborg (ID No. PE14018)
- Participating school (学校名): Hosei Univ. girls' high school
- Date (実施日時): 06/02/2015 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English): How oligosaccharides are consumed by *Bifidobacterium* and *Lactobacillus*.
(in Japanese): 乳酸菌(ビフィズス菌とラクトバチルス)がオリゴ糖を分解するしくみ

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

Hello, I'm Alex from Copenhagen in Denmark. I'm a scientist in Biotechnology from Technical University of Denmark. I have a doctor degree (PhD) in Biochemistry. During my doctor study I went abroad two times during 2012 to Tsukuba in Japan. I got many good results in science and many good friends, so I wanted to come to Japan again.

Now, I live in Tokyo since June 2014 and do research at the University of Tokyo. I work in the Enzyme laboratory of Professor Fushinobu at Agriculture and Life Sciences. I work with two different lactic acid bacteria, *Bifidobacterium* and *Lactobacillus*. They live in our gut, in the gut of humans. *Bifidobacterium* and *Lactobacillus* are good friends with humans, they are good for our health. They like to eat oligosaccharides, to become strong and prevent diseases in humans. *Bifidobacterium* and *Lactobacillus* like delicious oligosaccharides.

I study and want to know which delicious oligosaccharides that *Bifidobacterium* and *Lactobacillus* like very much. Especially, I am studying enzymes acting on oligosaccharides containing "galactose". Then I'll give them exactly the oligosaccharides they like, so we can be good friends forever – where they can give us good health.

- Language used (使用言語): English

- Lecture format (講演形式): Oral presentation aided by PowerPoint
 - ◆Lecture time (講演時間) 80 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))
Used 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))
Assiatnce by accompanied person
 - ◆Name and title of accompanied person (同行者 職・氏名)
Dr. Chihaya Yamada
 - ◆Other note worthy information (その他特筆すべき事項):

- 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。):