

(For JSPS Fellow)

Form B-5

Date (日付)

_____ (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): Suresh Panthee (ID No. P17421)
- Participating school (学校名): Tsuru Senior High School, Yamanashi
- Date (実施日時): 03/02/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Discovery of novel antibiotics using silkworm infection model
- Name and title of your company (同行者 職・氏名)
Hiroshi Hamamoto, Associate Professor
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間) 50 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 a projector for the presentation followed by the QA session and an experiment
- Lecture summary (講演概要): Please summary your lecture 200-500 words.
In the beginning, I briefly introduced Nepal, its biological diversity and culture. Then I moved to the current research ongoing on Professor Sekimizu Laboratory. We used silkworms as an animal model to discover novel antibiotics. Recent trend for antibiotic discovery includes in vitro examination of activity followed by mouse experiment. In most cases, these antibiotics do not display therapeutic activity in animal model. Given that using mouse at the early stage of experiment is associated with ethical issues and other problems, we use silkworms for the discovery of novel antibiotics at early stage of screening. I explained how silkworms can be used as animal model for antibiotic discovery and their advantages. Then I discussed about the antibiotics isolated using silkworm infection model.

After the presentation, we had a short question and answer session and students had an opportunity to experience of injecting red ink to silkworms.
- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Perhaps the experiment time could be prolonged. It would be great if the students could conduct some experiment and gather meaningful result.

- Other noteworthy information (その他特筆すべき事項):

- Impressions and opinions from a company (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。)

日本の高校生との交流は外国人博士研究員にとって、日本を理解する上で大変役に立った上に、本人の JSPS 外国人博士研究員における研究内容を紹介することを通じて、研究の理解にもつながり、大変有意義であった。また、今回本講義を受けた都留高校の学生の中に研究者を目指す学生がおり、本講義に大いに刺激を受けたようであった。また、日本の将来の研究者の育成に、我々が貢献できたかもしれないという点において、我々にとっても大変有意義であった。